

Taxonomic Outline of the Bacteria and Archaea, Release 7.7 March 6, 2007.
Part 5 – The Bacteria: Phylum “Proteobacteria”, Class
Gammaproteobacteria

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Class Gammaproteobacteria^{VP} Garrity et al 2005. N4Lid DOI: 10.1601/nm.2068

Order Chromatiales^{VP} Imhoff 2005. N4Lid DOI: 10.1601/nm.2069 149

Family Chromatiaceae^{AL} Bavendamm 1924. N4Lid DOI: 10.1601/nm.2070

Genus Chromatium^{AL} Perty 1852. N4Lid DOI: 10.1601/nm.2071

Chromatium okenii^{AL} (Ehrenberg 1838) Perty 1852. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 169. High-quality 16S rRNA sequence S000006206 (RDP), AJ223234 (Genbank). N4Lid DOI: 10.1601/nm.2072

Chromatium weissei^{AL} Perty 1852. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 171. N4Lid DOI: 10.1601/nm.2084

Genus Allochromatium^{VP} Imhoff et al. 1998. N4Lid DOI: 10.1601/nm.2085

Allochromatium vinosum^{VP} (Ehrenberg 1838) Imhoff et al. 1998. <== *Chromatium vinosum* (basonym). Synonym links through N4Lid: 10.1601/ex.2081. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17899. N4Lid DOI: 10.1601/nm.2086

† *Chromatium vinosum*^{AL} (Ehrenberg 1838) Winogradsky 1888. ==> *Allochromatium vinosum* (new combination). Synonym links through N4Lid: 10.1601/ex.2081. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17899. N4Lid DOI: 10.1601/nm.2081

Allochromatium minutissimum^{VP} (Winogradsky 1888) Imhoff et al. 1998. <== *Chromatium minutissimum* (basonym). Synonym links through N4Lid: 10.1601/ex.2077. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 1376. High-quality 16S rRNA sequence S000018505 (RDP), Y12369 (Genbank). N4Lid DOI: 10.1601/nm.2087

† *Chromatium minutissimum*^{AL} Winogradsky 1888. ==> *Allochromatium minutissimum* (new combination). Synonym links through N4Lid: 10.1601/ex.2077. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 1376. High-quality 16S rRNA sequence S000018505 (RDP), Y12369 (Genbank). N4Lid DOI: 10.1601/nm.2077

Allochromatium warmingii^{VP} (Cohn 1875) Imhoff et al. 1998. <== *Chromatium warmingii* (basonym). Synonym links through N4Lid: 10.1601/ex.2083. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14959. High-quality 16S rRNA sequence S000019722 (RDP), Y12365 (Genbank). N4Lid DOI: 10.1601/nm.2088

† *Chromatium warmingii*^{AL} (Cohn 1875) Migula 1900. ==> *Allochromatium warmingii* (new combination). Synonym links through N4Lid: 10.1601/ex.2083. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14959. High-quality 16S rRNA sequence S000019722 (RDP), Y12365 (Genbank). N4Lid DOI: 10.1601/nm.2083

Genus Halochromatium^{VP} Imhoff et al. 1998. N4Lid DOI: 10.1601/nm.2094

Halochromatium salexigens^{VP} (Caumette et al. 1989) Imhoff et al. 1998. <== *Chromatium salexigens* (basonym). Synonym links through N4Lid: 10.1601/ex.2079. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49190. High-quality 16S rRNA sequence S000260867 (RDP), X98597 (Genbank). N4Lid DOI: 10.1601/nm.2095

† *Chromatium salexigens*^{VP} Caumette et al. 1989. ==> *Halochromatium salexigens* (new combination). Synonym links through N4Lid: 10.1601/ex.2079. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49190. High-quality 16S rRNA sequence S000260867 (RDP), X98597 (Genbank). N4Lid DOI: 10.1601/nm.2079

Halochromatium glycolicum^{VP} (Caumette et al. 1997) Imhoff et al. 1998. <== *Chromatium glycolicum* (basonym). Synonym links through N4Lid: 10.1601/ex.2074. Source of type material

recommended for DOE sponsored genome sequencing by the JGI: ATCC 700202. N4Lid DOI: 10.1601/nm.2096

† *Chromatium glycolicum*^{VP} Caumette et al. 1997. ==> *Halochromatium glycolicum* (new combination). Synonym links through N4Lid: 10.1601/ex.2074. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700202. N4Lid DOI: 10.1601/nm.2074

Genus *Isochromatium*^{VP} Imhoff et al. 1998. N4Lid DOI: 10.1601/nm.2097

Isochromatium buderi^{VP} (Trüper and Jannasch 1968) Imhoff et al. 1998. <== *Chromatium buderi* (basonym). Synonym links through N4Lid: 10.1601/ex.2073. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25588. High-quality 16S rRNA sequence S000016893 (RDP), AJ224430 (Genbank). N4Lid DOI: 10.1601/nm.2098

† *Chromatium buderi*^{AL} Trüper and Jannasch 1968. ==> *Isochromatium buderi* (new combination). Synonym links through N4Lid: 10.1601/ex.2073. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25588. High-quality 16S rRNA sequence S000016893 (RDP), AJ224430 (Genbank). N4Lid DOI: 10.1601/nm.2073

Genus *Lamprobacter*^{VP} Gorlenko et al. 1988. N4Lid DOI: 10.1601/nm.2099

Lamprobacter modestohalophilus^{VP} Gorlenko et al. 1988. Source of type material recommended for DOE sponsored genome sequencing by the JGI: INMI RO-1. N4Lid DOI: 10.1601/nm.2100

Genus *Lamprocystis*^{AL} Schroeter 1886. ≈ *Lamprocystis* (later heterotypic synonym), links through 10.1601./nm.2101. N4Lid DOI: 10.1601/nm.2101

Lamprocystis roseopersicina^{AL} (Kützing 1849) Schroeter 1886. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 229. High-quality 16S rRNA sequence S000128539 (RDP), AJ006063 (Genbank). N4Lid DOI: 10.1601/nm.2102

Lamprocystis purpurea^{VP} (Eichler and Pfennig 1989) Imhoff 2001. <== *Amoebobacter purpureus* (basonym). Synonym links through N4Lid: 10.1601/ex.2093. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49210. High-quality 16S rRNA sequence S000003454 (RDP), AJ223235 (Genbank). N4Lid DOI: 10.1601/nm.2103

† *Amoebobacter purpureus*^{VP} Eichler and Pfennig 1989. ==> *Pfennigia purpurea* (new combination). Synonym links through N4Lid: 10.1601/ex.2093. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49210. High-quality 16S rRNA sequence S000003454 (RDP), AJ223235 (Genbank). N4Lid DOI: 10.1601/nm.2093

† *Pfennigia purpurea*^{VP} (Eichler and Pfennig 1989) Tindall 1999. <== *Amoebobacter purpureus* (basonym). . ==> *Lamprocystis purpurea* (new combination). Synonym links through N4Lid: 10.1601/ex.2093. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49210. High-quality 16S rRNA sequence S000003454 (RDP), AJ223235 (Genbank). N4Lid DOI: 10.1601/nm.2111

Genus † *Pfennigia*^{VP} Tindall 1999. ≈ *Lamprocystis* (earlier heterotypic synonym), links through 10.1601./nm.2101. N4Lid DOI: 10.1601/nm.2110

Genus *Marichromatium*^{VP} Imhoff et al. 1998. N4Lid DOI: 10.1601/nm.2104

Marichromatium gracile^{VP} (Strzeszewski 1913) Imhoff et al. 1998. <== *Chromatium gracile* (basonym). Synonym links through N4Lid: 10.1601/ex.2075. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 203. N4Lid DOI: 10.1601/nm.2105

† *Chromatium gracile*^{AL} Strzeszewski 1913. ==> *Marichromatium gracile* (new combination). Synonym links through N4Lid: 10.1601/ex.2075. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 203. N4Lid DOI: 10.1601/nm.2075

Marichromatium indicum^{VP} Arunasri et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-741. High-quality 16S rRNA sequence S000539422 (RDP), AJ543328 (Genbank). N4Lid 10.1601/nm.9355

Marichromatium purpuratum^{VP} (Imhoff and Trüper 1980) Imhoff et al. 1998. <== *Chromatium purpuratum* (basonym). Synonym links through N4Lid: 10.1601/ex.2078. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 1591. High-quality 16S rRNA sequence S000386880 (RDP), AF001580 (Genbank). N4Lid DOI: 10.1601/nm.2106

- † *Chromatium purpuratum*^{VP} Imhoff and Trüper 1980. ==> *Marichromatium purpuratum* (new combination). Synonym links through N4Lid: 10.1601/ex.2078. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 1591. High-quality 16S rRNA sequence S000386880 (RDP), AF001580 (Genbank). N4Lid DOI: 10.1601/nm.2078
- Genus *Nitrosococcus***^{AL} Winogradsky 1892. GOLD ID: Gi00769. GCAT ID: 001266_GCAT. Genome sequence is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.2107
- Nitrosococcus nitrosus*^{AL} (Migula 1900) Buchanan 1925. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.2108
- Nitrosococcus oceani*^{AL} corrig. (Watson 1965) Watson 1971. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19707. High-quality 16S rRNA sequence S000021135 (RDP), M96395 (Genbank). GOLD ID: Gc00304. GCAT ID: 000306_GCAT. Entrez genome id: 13993. Sequenced strain: ATCC 19707 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 2 (GOLD) 2 (NCBI). N4Lid DOI: 10.1601/nm.2109
- Genus *Rhabdochromatium***^{VP} (ex Winogradsky 1888) Dilling et al. 1996. N4Lid DOI: 10.1601/nm.2112
- Rhabdochromatium marinum*^{VP} Dilling et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 5261. High-quality 16S rRNA sequence S000010442 (RDP), X84316 (Genbank). N4Lid DOI: 10.1601/nm.2113
- Genus *Rheinheimera***^{VP} Brettar et al. 2002. N4Lid DOI: 10.1601/nm.2114
- Rheinheimera baltica*^{VP} Brettar et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14885. High-quality 16S rRNA sequence S000129394 (RDP), AJ441080 (Genbank). N4Lid DOI: 10.1601/nm.2115
- Rheinheimera pacifica*^{VP} Romanenko et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 46544. High-quality 16S rRNA sequence S000334621 (RDP), AB073132 (Genbank). N4Lid DOI: 10.1601/nm.2116
- Rheinheimera perlucida*^{VP} Brettar et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 109200. High-quality 16S rRNA sequence S000643391 (RDP), AM183347 (Genbank). N4Lid DOI: 10.1601/nm.10290
- Genus *Thermochromatium***^{VP} Imhoff et al. 1998. N4Lid DOI: 10.1601/nm.2117
- Thermochromatium tepidum*^{VP} (Madigan 1986) Imhoff et al. 1998. <== *Chromatium tepidum* (basonym). Synonym links through N4Lid: 10.1601/ex.2080. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43061. High-quality 16S rRNA sequence S000436513 (RDP), M59150 (Genbank). GOLD ID: Gi00655. GCAT ID: 001602_GCAT. Entrez genome id: 13652. Sequenced strain: ATCC 43061 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2118
- † *Chromatium tepidum*^{VP} Madigan 1986. ==> *Thermochromatium tepidum* (new combination). Synonym links through N4Lid: 10.1601/ex.2080. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43061. High-quality 16S rRNA sequence S000436513 (RDP), M59150 (Genbank). GOLD ID: Gi00655. GCAT ID: 001602_GCAT. Entrez genome id: 13652. Sequenced strain: ATCC 43061 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2080
- Genus *Thioalkalicoccus***^{VP} Bryantseva et al. 2000. N4Lid DOI: 10.1601/nm.2119
- Thioalkalicoccus limnaeus*^{VP} Bryantseva et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-32. High-quality 16S rRNA sequence S000128724 (RDP), AJ277023 (Genbank). N4Lid DOI: 10.1601/nm.2120
- Genus *Thiobaca***^{VP} Rees et al. 2002. N4Lid DOI: 10.1601/nm.2121
- Thiobaca trueperi*^{VP} Rees et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-132. High-quality 16S rRNA sequence S000018101 (RDP), AJ404006 (Genbank). N4Lid DOI: 10.1601/nm.2122
- Genus *Thiocapsa***^{AL} Winogradsky 1888. N4Lid DOI: 10.1601/nm.2123

Thiocapsa roseopersicina^{AL} Winogradsky 1888. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 217. High-quality 16S rRNA sequence S000654200 (RDP), Y12364 (Genbank). N4Lid DOI: 10.1601/nm.2124

Thiocapsa litoralis^{VP} Puchkova et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700894. High-quality 16S rRNA sequence S000016689 (RDP), AJ242772 (Genbank). N4Lid DOI: 10.1601/nm.2126

Thiocapsa marina^{VP} Caumette et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43172. High-quality 16S rRNA sequence S000375759 (RDP), Y12301 (Genbank). N4Lid DOI: 10.1601/nm.8891

Thiocapsa pendens^{VP} (Molisch 1906) Guyoneaud et al. 1998. <== *Amoebobacter pendens* (basonym). Synonym links through N4Lid: 10.1601/ex.2092. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 236. High-quality 16S rRNA sequence S000129516 (RDP), AJ002797 (Genbank). N4Lid DOI: 10.1601/nm.2127

† *Amoebobacter pendens*^{AL} (Molisch 1906) Pfennig and Trüper 1971. ==> *Thiocapsa pendens* (new combination). Synonym links through N4Lid: 10.1601/ex.2092. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 236. High-quality 16S rRNA sequence S000129516 (RDP), AJ002797 (Genbank). N4Lid DOI: 10.1601/nm.2092

Thiocapsa rosea^{VP} (Winogradsky 1888) Guyoneaud et al. 1998. <== *Amoebobacter roseus* (basonym). Synonym links through N4Lid: 10.1601/ex.2090. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 235. High-quality 16S rRNA sequence S000130707 (RDP), AJ002798 (Genbank). N4Lid DOI: 10.1601/nm.2129

† *Amoebobacter roseus*^{AL} Winogradsky 1888. ==> *Thiocapsa rosea* (new combination). Synonym links through N4Lid: 10.1601/ex.2090. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 235. High-quality 16S rRNA sequence S000130707 (RDP), AJ002798 (Genbank). N4Lid DOI: 10.1601/nm.2090

Genus † *Amoebobacter*^{AL} Winogradsky 1888. Unified with *Thiocapsa*, links through 10.1601/nm.2293. N4Lid DOI: 10.1601/nm.2089

Genus *Thiococcus*^{VP} Imhoff et al. 1998. N4Lid DOI: 10.1601/nm.2130

Thiococcus pfennigii^{VP} (Eimhjellen 1970) Imhoff et al. 1998. <== *Thiocapsa pfennigii* (basonym). Synonym links through N4Lid: 10.1601/ex.2128. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 1375. High-quality 16S rRNA sequence S000020289 (RDP), Y12373 (Genbank). N4Lid DOI: 10.1601/nm.2131

† *Thiocapsa pfennigii*^{AL} Eimhjellen 1970. ==> *Thiococcus pfennigii* (new combination). Synonym links through N4Lid: 10.1601/ex.2128. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 1375. High-quality 16S rRNA sequence S000020289 (RDP), Y12373 (Genbank). N4Lid DOI: 10.1601/nm.2128

Genus *Thiocystis*^{AL} Winogradsky 1888. N4Lid DOI: 10.1601/nm.2132

Thiocystis violacea^{AL} Winogradsky 1888. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 207. High-quality 16S rRNA sequence S000381462 (RDP), Y11315 (Genbank). N4Lid DOI: 10.1601/nm.2133

Thiocystis gelatinosa^{AL} (Winogradsky 1888) Pfennig and Trüper 1971. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 215. High-quality 16S rRNA sequence S000381464 (RDP), Y11317 (Genbank). N4Lid DOI: 10.1601/nm.2134

Thiocystis minor^{VP} (Winogradsky 1888) Imhoff et al. 1998. <== *Chromatium minus* (basonym). Synonym links through N4Lid: 10.1601/ex.2076. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 178. High-quality 16S rRNA sequence S000020718 (RDP), Y12372 (Genbank). N4Lid DOI: 10.1601/nm.2135

† *Chromatium minus*^{AL} Winogradsky 1888. ==> *Thiocystis minor* (new combination). Synonym links through N4Lid: 10.1601/ex.2076. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 178. High-quality 16S rRNA sequence S000020718 (RDP), Y12372 (Genbank). N4Lid DOI: 10.1601/nm.2076

Thiocystis violascens^{VP} (Perty 1852) Imhoff et al. 1998. <== *Chromatium violascens* (basonym). Synonym links through N4Lid: 10.1601/ex.2082. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17096. High-quality 16S rRNA sequence S000112473 (RDP), AJ224438 (Genbank). N4Lid DOI: 10.1601/nm.2136

† *Chromatium violascens*^{AL} Perty 1852. ==> *Thiocystis violascens* (new combination).
Synonym links through N4Lid: 10.1601/ex.2082. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17096. High-quality 16S rRNA sequence S000112473 (RDP), AJ224438 (Genbank). N4Lid DOI: 10.1601/nm.2082

Genus *Thiodictyon*^{AL} Winogradsky 1888. N4Lid DOI: 10.1601/nm.2137

Thiodictyon elegans^{AL} Winogradsky 1888. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 232. N4Lid DOI: 10.1601/nm.2138

Thiodictyon bacillosum^{AL} (Winogradsky 1888) Pfennig and Trüper 1971. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 234. N4Lid DOI: 10.1601/nm.2139

Genus *Thioflavicoccus*^{VP} Imhoff and Pfennig 2001. N4Lid DOI: 10.1601/nm.2140

Thioflavicoccus mobilis^{VP} Imhoff and Pfennig 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700959. High-quality 16S rRNA sequence S000112747 (RDP), AJ010125 (Genbank). N4Lid DOI: 10.1601/nm.2141

Genus *Thiohalocapsa*^{VP} Imhoff et al. 1998. N4Lid DOI: 10.1601/nm.2142

Thiohalocapsa halophila^{VP} (Caumette et al. 1991) Imhoff et al. 1998. <== *Thiocapsa halophila* (basonym). Synonym links through N4Lid: 10.1601/ex.2125. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49740. High-quality 16S rRNA sequence S000019097 (RDP), AJ002796 (Genbank). N4Lid DOI: 10.1601/nm.2143

† *Thiocapsa halophila*^{VP} Caumette et al. 1991. ==> *Thiohalocapsa halophila* (new combination). Synonym links through N4Lid: 10.1601/ex.2125. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49740. High-quality 16S rRNA sequence S000019097 (RDP), AJ002796 (Genbank). N4Lid DOI: 10.1601/nm.2125

Genus *Thiolamprovm*^{VP} Guyoneaud et al. 1998. N4Lid DOI: 10.1601/nm.2144

Thiolamprovm pedioforme^{VP} (Eichler and Pfennig 1987) Guyoneaud et al. 1998. <== *Amoebobacter pedioformis* (basonym). Synonym links through N4Lid: 10.1601/ex.2091. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 3802. High-quality 16S rRNA sequence S000260577 (RDP), Y12297 (Genbank). N4Lid DOI: 10.1601/nm.2145

† *Amoebobacter pedioformis*^{VP} Eichler and Pfennig 1987. ==> *Thiolamprovm pedioforme* (new combination). Synonym links through N4Lid: 10.1601/ex.2091. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 3802. High-quality 16S rRNA sequence S000260577 (RDP), Y12297 (Genbank). N4Lid DOI: 10.1601/nm.2091

Genus *Thiopedia*^{AL} Winogradsky 1888. N4Lid DOI: 10.1601/nm.2146

Thiopedia rosea^{AL} Winogradsky 1888. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.2147

Genus *Thiorhodococcus*^{VP} Guyoneaud et al. 1998. N4Lid DOI: 10.1601/nm.2148

Thiorhodococcus minor^{VP} corrig. Guyoneaud et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700259. High-quality 16S rRNA sequence S000381463 (RDP), Y11316 (Genbank). N4Lid DOI: 10.1601/nm.2149

Thiorhodococcus mannitoliphagus^{VP} Rabold et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1228. High-quality 16S rRNA sequence S000721401 (RDP), AJ971090 (Genbank). N4Lid DOI: 10.1601/nm.10252

Genus *Thiorhodovibrio*^{VP} Overmann et al. 1993. N4Lid DOI: 10.1601/nm.2150

Thiorhodovibrio winogradskyi^{VP} Overmann et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 6702. High-quality 16S rRNA sequence S000112780 (RDP), AJ006214 (Genbank). N4Lid DOI: 10.1601/nm.2151

Genus *Thiospirillum*^{AL} Winogradsky 1888. N4Lid DOI: 10.1601/nm.2152

Thiospirillum jenense^{AL} (Ehrenberg 1838) Migula 1900. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 216. N4Lid DOI: 10.1601/nm.2153

Family *Ectothiorhodospiraceae*^{VP} Imhoff 1984. N4Lid DOI: 10.1601/nm.2154

Genus *Ectothiorhodospira*^{AL} Pelsh 1936. N4Lid DOI: 10.1601/nm.2155

Ectothiorhodospira mobilis^{AL} Pelsh 1936. ≈ *Ectothiorhodospira marismortui* (later heterotypic synonym), links through 10.1601/nm.2156. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49921. High-quality 16S rRNA sequence S000004362 (RDP), X93481 (Genbank). N4Lid DOI: 10.1601/nm.2156

† *Ectothiorhodospira marismortui*^{VP} Oren et al. 1990. ≈ *Ectothiorhodospira mobilis* (earlier heterotypic synonym), links through 10.1601/nm.2156. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 4180. High-quality 16S rRNA sequence S000012396 (RDP), X93482 (Genbank). N4Lid DOI: 10.1601/nm.2162

Ectothiorhodospira haloalkaliphila^{VP} Imhoff and Süling 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51935. N4Lid DOI: 10.1601/nm.2158

Ectothiorhodospira marina^{VP} Imhoff and Süling 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 241. High-quality 16S rRNA sequence S000016080 (RDP), X93476 (Genbank). N4Lid DOI: 10.1601/nm.2161

Ectothiorhodospira shaposhnikovii^{AL} Cherni et al. 1969. ≈ *Ectothiorhodospira vacuolata* (later heterotypic synonym), links through 10.1601/nm.2163. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-49. High-quality 16S rRNA sequence S000436514 (RDP), M59151 (Genbank). N4Lid DOI: 10.1601/nm.2163

† *Ectothiorhodospira vacuolata*^{VP} Imhoff et al. 1982. ≈ *Ectothiorhodospira shaposhnikovii* (earlier heterotypic synonym), links through 10.1601/nm.2163. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 2111. N4Lid DOI: 10.1601/nm.2164

Genus *Alkalilimnicola*^{VP} corrig. Yakimov et al. 2001. N4Lid DOI: 10.1601/nm.2165

Alkalilimnicola halodurans^{VP} corrig. Yakimov et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13718. High-quality 16S rRNA sequence S000129172 (RDP), AJ404972 (Genbank). N4Lid DOI: 10.1601/nm.2166

Genus *Alkalispirillum*^{VP} Rijkenberg et al. 2002. N4Lid DOI: 10.1601/nm.2167

Alkalispirillum mobile^{VP} Rijkenberg et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 12769. High-quality 16S rRNA sequence S000429085 (RDP), AF114783 (Genbank). N4Lid DOI: 10.1601/nm.2168

Genus *Arhodomonas*^{VP} Adkins et al. 1993. N4Lid DOI: 10.1601/nm.2169

Arhodomonas aquaeolei^{VP} Adkins et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49307. High-quality 16S rRNA sequence S000436146 (RDP), M26631 (Genbank). N4Lid DOI: 10.1601/nm.2170

Genus *Halorhodospira*^{VP} Imhoff and Süling 1997. N4Lid DOI: 10.1601/nm.2171

Halorhodospira halophila^{VP} (Raymond and Siström 1969) Imhoff and Süling 1997. <== *Ectothiorhodospira halophila* (basonym). Synonym links through N4Lid: 10.1601/ex.2160. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 244. High-quality 16S rRNA sequence S000571662 (RDP). GOLD ID: Gc00492. GCAT ID: 000117_GCAT. Entrez genome id: 15767. Sequenced strain: SL1 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2172

† *Ectothiorhodospira halophila*^{AL} Raymond and Siström 1969. ==> *Halorhodospira halophila* (new combination). Synonym links through N4Lid: 10.1601/ex.2160. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 244. GOLD ID: Gc00492. GCAT ID: 000117_GCAT. Entrez genome id: 15767. Sequenced strain: SL1 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2160

Halorhodospira abdelmalekii^{VP} (Imhoff and Trüper 1982) Imhoff and Süling 1997. <== *Ectothiorhodospira abdelmalekii* (basonym). Synonym links through N4Lid: 10.1601/ex.2157. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35917. N4Lid DOI: 10.1601/nm.2173

† *Ectothiorhodospira abdelmalekii*^{VP} Imhoff and Trüper 1982. ==> *Halorhodospira abdelmalekii* (new combination). Synonym links through N4Lid: 10.1601/ex.2157. Source of type

material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35917. N4Lid DOI: 10.1601/nm.2157

Halorhodospira halochloris ^{VP} (Imhoff and Trüper 1979) Imhoff and Süling 1997. <==
Ectothiorhodospira halochloris (basonym). Synonym links through N4Lid: 10.1601/ex.2159. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35916. High-quality 16S rRNA sequence S000436515 (RDP), M59152 (Genbank). N4Lid DOI: 10.1601/nm.2174

† *Ectothiorhodospira halochloris* ^{AL} Imhoff and Trüper 1979. ==> *Halorhodospira halochloris* (new combination). Synonym links through N4Lid: 10.1601/ex.2159. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35916. High-quality 16S rRNA sequence S000436515 (RDP), M59152 (Genbank). N4Lid DOI: 10.1601/nm.2159

Halorhodospira neutriphila ^{VP} Hirschler-Réa et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15116. High-quality 16S rRNA sequence S000116535 (RDP), AJ318525 (Genbank). N4Lid DOI: 10.1601/nm.2175

Genus *Methylothermus* ^{VP} Tsubota et al. 2005. N4Lid 10.1601/nm.9619

Methylothermus thermalis ^{VP} Tsubota et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: IPOD FERM P-19714. High-quality 16S rRNA sequence S000550072 (RDP), AY829009 (Genbank). N4Lid 10.1601/nm.9618

Genus *Nitrococcus* ^{AL} Watson and Waterbury 1971. N4Lid DOI: 10.1601/nm.2176

Nitrococcus mobilis ^{AL} Watson and Waterbury 1971. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25380. High-quality 16S rRNA sequence S000414635 (RDP), L35510 (Genbank). GOLD ID: Gi00856. GCAT ID: 001264_GCAT. Entrez genome id: 13475. Sequenced strain: Nb 231 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2177

Genus *Thioalkalispira* ^{VP} Sorokin et al. 2002. N4Lid DOI: 10.1601/nm.2178

Thioalkalispira microaerophila ^{VP} Sorokin et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14786. High-quality 16S rRNA sequence S000500004 (RDP), AF481118 (Genbank). N4Lid DOI: 10.1601/nm.2179

Genus "*Thialkalivibrio*" N4Lid DOI: 10.1601/nm.2180

"Thialkalivibrio versutus" Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15116. High-quality 16S rRNA sequence S000387297 (RDP), AF126546 (Genbank). N4Lid DOI: 10.1601/nm.2181

"Thialkalivibrio denitrificans" Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13738. High-quality 16S rRNA sequence S000387296 (RDP), AF126545 (Genbank). N4Lid DOI: 10.1601/nm.2182

"Thialkalivibrio jannaschii" Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13742. High-quality 16S rRNA sequence S000391694 (RDP), AF329083 (Genbank). N4Lid DOI: 10.1601/nm.2183

"Thialkalivibrio nitratis" Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13741. High-quality 16S rRNA sequence S000387298 (RDP), AF126547 (Genbank). N4Lid DOI: 10.1601/nm.2184

"Thialkalivibrio nitratireducens" Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14787. High-quality 16S rRNA sequence S000435072 (RDP), AY079010 (Genbank). N4Lid DOI: 10.1601/nm.2185

"Thialkalivibrio paradoxus" Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-721. High-quality 16S rRNA sequence S000388240 (RDP), AF151432 (Genbank). N4Lid DOI: 10.1601/nm.2186

"Thialkalivibrio thiocyanoxidans" Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-720. High-quality 16S rRNA sequence S000390962 (RDP), AF302081 (Genbank). N4Lid DOI: 10.1601/nm.2187

Genus *Thioalkalivibrio* ^{VP} Sorokin et al. 2001. GOLD ID: Gi01555. GCAT ID: 001613_GCAT. Sequenced strain: HL-EbGR7 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 2 (GOLD). N4Lid 10.1601/nm.9246

Thioalkalivibrio versutus^{VP} Sorokin et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15116. High-quality 16S rRNA sequence S000387297 (RDP), AF126546 (Genbank). N4Lid 10.1601/nm.9215

Thioalkalivibrio denitrificans^{VP} Sorokin et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13738. High-quality 16S rRNA sequence S000387296 (RDP), AF126545 (Genbank). N4Lid 10.1601/nm.9217

Thioalkalivibrio halophilus^{VP} corrig. Banciu et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15791. High-quality 16S rRNA sequence S000540532 (RDP), AY346464 (Genbank). N4Lid 10.1601/nm.9302

Thioalkalivibrio jannaschii^{VP} Sorokin et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13742. High-quality 16S rRNA sequence S000391694 (RDP), AF329083 (Genbank). N4Lid 10.1601/nm.9226

Thioalkalivibrio nitratireducens^{VP} corrig. Sorokin et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14787. High-quality 16S rRNA sequence S000435072 (RDP), AY079010 (Genbank). N4Lid 10.1601/nm.9244

Thioalkalivibrio nitratis^{VP} Sorokin et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13741. High-quality 16S rRNA sequence S000387298 (RDP), AF126547 (Genbank). N4Lid 10.1601/nm.9216

Thioalkalivibrio paradoxus^{VP} Sorokin et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-721. High-quality 16S rRNA sequence S000388240 (RDP), AF151432 (Genbank). N4Lid 10.1601/nm.9223

Thioalkalivibrio thiocyanodenitrificans^{VP} corrig. Sorokin et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16954. High-quality 16S rRNA sequence S000540533 (RDP), AY360060 (Genbank). N4Lid 10.1601/nm.9480

Thioalkalivibrio thiocyanoxidans^{VP} Sorokin et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-720. High-quality 16S rRNA sequence S000390962 (RDP), AF302081 (Genbank). N4Lid 10.1601/nm.9222

Genus *Thiorhodospira*^{VP} Bryantseva et al. 1999. N4Lid DOI: 10.1601/nm.2188

Thiorhodospira sibirica^{VP} Bryantseva et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700588. High-quality 16S rRNA sequence S000018681 (RDP), AJ006530 (Genbank). N4Lid DOI: 10.1601/nm.2189

Family *Halothiobacillaceae*^{VP} Kelly and Wood 2005. N4Lid DOI: 10.1601/nm.2190

Genus *Halothiobacillus*^{VP} Kelly and Wood 2000. N4Lid DOI: 10.1601/nm.2191

Halothiobacillus neapolitanus^{VP} (Parker 1957) Kelly and Wood 2000. <== *Thiobacillus neapolitanus* (basonym). Synonym links through N4Lid: 10.1601/ex.1887. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15147. High-quality 16S rRNA sequence S000388575 (RDP), AF173169 (Genbank). N4Lid DOI: 10.1601/nm.2192

† *Thiobacillus neapolitanus*^{AL} Parker 1957. ==> *Halothiobacillus neapolitanus* (new combination). Synonym links through N4Lid: 10.1601/ex.1887. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15147. High-quality 16S rRNA sequence S000388575 (RDP), AF173169 (Genbank). N4Lid DOI: 10.1601/nm.1887

Halothiobacillus halophilus^{VP} (Wood and Kelly 1995) Kelly and Wood 2000. <== *Thiobacillus halophilus* (basonym). Synonym links through N4Lid: 10.1601/ex.1884. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49870. High-quality 16S rRNA sequence S000437891 (RDP), U58020 (Genbank). N4Lid DOI: 10.1601/nm.2193

† *Thiobacillus halophilus*^{VP} Wood and Kelly 1995. ==> *Halothiobacillus halophilus* (new combination). Synonym links through N4Lid: 10.1601/ex.1884. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49870. High-quality 16S rRNA sequence S000437891 (RDP), U58020 (Genbank). N4Lid DOI: 10.1601/nm.1884

Halothiobacillus hydrothermalis^{VP} (Durand et al. 1997) Kelly and Wood 2000. <== *Thiobacillus hydrothermalis* (basonym). Synonym links through N4Lid: 10.1601/ex.1885. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51453. High-quality 16S rRNA sequence S000436879 (RDP), M90662 (Genbank). N4Lid DOI: 10.1601/nm.2194

† *Thiobacillus hydrothermalis*^{VP} Durand et al. 1997. ==> *Halothiobacillus hydrothermalis* (new combination). Synonym links through N4Lid: 10.1601/ex.1885. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51453. High-quality 16S rRNA sequence S000436879 (RDP), M90662 (Genbank). N4Lid DOI: 10.1601/nm.1885

Halothiobacillus kellyi^{VP} Sievert et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13162. High-quality 16S rRNA sequence S000388516 (RDP), AF170419 (Genbank). N4Lid DOI: 10.1601/nm.2195

Genus *Thiovirga*^{VP} Ito et al. 2005. N4Lid 10.1601/nm.9425

Thiovirga sulfuroxydans^{VP} Ito et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1033. High-quality 16S rRNA sequence S000542938 (RDP), AB118236 (Genbank). N4Lid 10.1601/nm.9424

Order *Acidithiobacillales*^{VP} Garrity et al 2005. N4Lid DOI: 10.1601/nm.2196

Family *Acidithiobacillaceae*^{VP} Garrity et al 2005. N4Lid DOI: 10.1601/nm.2197

Genus *Acidithiobacillus*^{VP} Kelly and Wood 2000. N4Lid DOI: 10.1601/nm.2198

Acidithiobacillus thiooxidans^{VP} (Waksman and Joffe 1922) Kelly and Wood 2000. <== *Thiobacillus thiooxidans* (basonym). Synonym links through N4Lid: 10.1601/ex.1893. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19377. High-quality 16S rRNA sequence S000021079 (RDP), Y11596 (Genbank). N4Lid DOI: 10.1601/nm.2199

† *Thiobacillus concretivorus*^{AL} Parker 1945. ≈ *Acidithiobacillus thiooxidans* (earlier heterotypic synonym), links through 10.1601/nm.2199. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCIMB 8345. N4Lid DOI: 10.1601/nm.1880

† *Thiobacillus thiooxidans*^{AL} Waksman and Joffe 1922. ==> *Acidithiobacillus thiooxidans* (new combination). Synonym links through N4Lid: 10.1601/ex.1893. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19377. High-quality 16S rRNA sequence S000021079 (RDP), Y11596 (Genbank). N4Lid DOI: 10.1601/nm.1893

Acidithiobacillus albertensis^{VP} corrig. (Bryant et al. 1988) Kelly and Wood 2000. <== *Thiobacillus albertis* (basonym). Synonym links through N4Lid: 10.1601/ex.1877. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35403. High-quality 16S rRNA sequence S000017517 (RDP), AJ459804 (Genbank). N4Lid DOI: 10.1601/nm.2200

† *Thiobacillus albertis*^{VP} Bryant et al. 1988. ==> *Acidithiobacillus albertensis* (new combination). Synonym links through N4Lid: 10.1601/ex.1877. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35403. High-quality 16S rRNA sequence S000017517 (RDP), AJ459804 (Genbank). N4Lid DOI: 10.1601/nm.1877

Acidithiobacillus caldus^{VP} (Hallberg and Lindstrom 1995) Kelly and Wood 2000. <== *Thiobacillus caldus* (basonym). Synonym links through N4Lid: 10.1601/ex.1879. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51756. High-quality 16S rRNA sequence S000011276 (RDP), Z29975 (Genbank). N4Lid DOI: 10.1601/nm.2201

† *Thiobacillus caldus*^{VP} Hallberg and Lindstrom 1995. ==> *Acidithiobacillus caldus* (new combination). Synonym links through N4Lid: 10.1601/ex.1879. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51756. High-quality 16S rRNA sequence S000011276 (RDP), Z29975 (Genbank). N4Lid DOI: 10.1601/nm.1879

Acidithiobacillus ferrooxidans^{VP} (Temple and Colmer 1951) Kelly and Wood 2000. <== *Thiobacillus ferrooxidans* (basonym). Synonym links through N4Lid: 10.1601/ex.1883. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23270. GOLD ID: Gi00002. GCAT ID: 000615_GCAT. Sequenced strain: ATCC 23270 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 2 (GOLD). N4Lid DOI: 10.1601/nm.2202

† *Thiobacillus ferrooxidans*^{AL} Temple and Colmer 1951. ==> *Acidithiobacillus ferrooxidans* (new combination). Synonym links through N4Lid: 10.1601/ex.1883. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23270. GOLD ID: Gi00002. GCAT ID: 000615_GCAT. Sequenced strain: ATCC 23270 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 2 (GOLD) 0 (NCBI). N4Lid DOI: 10.1601/nm.1883

Family *Thermithiobacillaceae* ^{VP} Garrity et al 2005. N4Lid DOI: 10.1601/nm.2203

Genus *Thermithiobacillus* ^{VP} Kelly and Wood 2000. N4Lid DOI: 10.1601/nm.2204

Thermithiobacillus tepidarius ^{VP} (Wood and Kelly 1985) Kelly and Wood 2000. <==
Thiobacillus tepidarius (basonym). Synonym links through N4Lid: 10.1601/ex.1891. Source of
type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43215.
N4Lid DOI: 10.1601/nm.2205

† *Thiobacillus tepidarius* ^{VP} Wood and Kelly 1985. ==> *Thermithiobacillus tepidarius* (new
combination). Synonym links through N4Lid: 10.1601/ex.1891. Source of type material
recommended for DOE sponsored genome sequencing by the JGI: ATCC 43215. N4Lid DOI:
10.1601/nm.1891

Order *Xanthomonadales* ^{VP} Saddler and Bradbury 2005. N4Lid DOI: 10.1601/nm.2206

Family *Xanthomonadaceae* ^{VP} Saddler and Bradbury 2005. N4Lid DOI: 10.1601/nm.2207

Genus *Xanthomonas* ^{AL} Dowson 1939. N4Lid DOI: 10.1601/nm.2208

Xanthomonas campestris ^{AL} (Pammel 1895) Dowson 1939. Source of type material recommended
for DOE sponsored genome sequencing by the JGI: ATCC 33913. High-quality 16S rRNA
sequence S000381394 (RDP), X95917 (Genbank). GOLD ID: Gc00088. GCAT ID:
000522_GCAT. Entrez genome id: 296. Sequenced strain: ATCC 33913 is type material. Genome
sequencing is completed. Number of genomes of this species sequenced 4 (GOLD) 2 (NCBI).
N4Lid DOI: 10.1601/nm.2209

Xanthomonas albilineans ^{AL} (Ashby 1929) Dowson 1943. Source of type material recommended
for DOE sponsored genome sequencing by the JGI: ATCC 33915. High-quality 16S rRNA
sequence S000381395 (RDP), X95918 (Genbank). GOLD ID: Gi01524. GCAT ID:
001698_GCAT. Entrez genome id: 16687. Sequenced strain: GPE PC73 is from a non-type strain.
Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1
(NCBI). N4Lid DOI: 10.1601/nm.2210

Xanthomonas arboricola ^{VP} Vauterin et al. 1995. Source of type material recommended for DOE
sponsored genome sequencing by the JGI: ATCC 49083. High-quality 16S rRNA sequence
S000008975 (RDP), Y10757 (Genbank). N4Lid DOI: 10.1601/nm.2212

Xanthomonas axonopodis ^{AL} Starr and Garces 1950. Source of type material recommended for
DOE sponsored genome sequencing by the JGI: ATCC 19312. High-quality 16S rRNA sequence
S000381396 (RDP), X95919 (Genbank). GOLD ID: Gc00089. GCAT ID: 000521_GCAT. Entrez
genome id: 297. Sequenced strain: ATCC 13902 is from a non-type strain. Genome sequencing is
completed. Number of genomes of this species sequenced 3 (GOLD) 3 (NCBI). N4Lid DOI:
10.1601/nm.2213

Xanthomonas bromi ^{VP} Vauterin et al. 1995. Source of type material recommended for DOE
sponsored genome sequencing by the JGI: CFBP 1976. High-quality 16S rRNA sequence
S000012797 (RDP), Y10764 (Genbank). N4Lid DOI: 10.1601/nm.2214

Xanthomonas cassavae ^{VP} (ex Wiehe and Dowson 1953) Vauterin et al. 1995. Source of type
material recommended for DOE sponsored genome sequencing by the JGI: NCPPB 101. High-
quality 16S rRNA sequence S000015432 (RDP), Y10762 (Genbank). N4Lid DOI:
10.1601/nm.2215

Xanthomonas citri ^{VP} (ex Hasse 1915) Gabriel et al. 1989. Source of type material recommended
for DOE sponsored genome sequencing by the JGI: ATCC 49118. N4Lid DOI: 10.1601/nm.2216

Xanthomonas codiae ^{VP} Vauterin et al. 1995. Source of type material recommended for DOE
sponsored genome sequencing by the JGI: ATCC 700187. High-quality 16S rRNA sequence
S000006319 (RDP), Y10765 (Genbank). N4Lid DOI: 10.1601/nm.2217

Xanthomonas cucurbitae ^{VP} (ex Bryan 1926) Vauterin et al. 1995. Source of type material
recommended for DOE sponsored genome sequencing by the JGI: CFBP 2542. High-quality 16S
rRNA sequence S000010893 (RDP), Y10760 (Genbank). N4Lid DOI: 10.1601/nm.2218

Xanthomonas cynarae ^{VP} Trébaol et al. 2000. Source of type material recommended for DOE
sponsored genome sequencing by the JGI: CFBP 4188. High-quality 16S rRNA sequence
S000389072 (RDP), AF208315 (Genbank). N4Lid DOI: 10.1601/nm.2219

Xanthomonas euvesicatoria ^{VP} Jones et al. 2006. Source of type material recommended for DOE
sponsored genome sequencing by the JGI: ATCC 11633. N4Lid DOI: 10.1601/nm.10081

Xanthomonas fragariae^{AL} Kennedy and King 1962. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33239. High-quality 16S rRNA sequence S000381397 (RDP), X95920 (Genbank). N4Lid DOI: 10.1601/nm.2220

Xanthomonas gardneri^{VP} (ex Sutic 1957) Jones et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19865. N4Lid DOI: 10.1601/nm.10083

Xanthomonas hortorum^{VP} Vauterin et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCPPB 939. High-quality 16S rRNA sequence S000022475 (RDP), Y10759 (Genbank). N4Lid DOI: 10.1601/nm.2221

Xanthomonas hyacinthi^{VP} (ex Wakker 1883) Vauterin et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19314. High-quality 16S rRNA sequence S000015789 (RDP), Y10754 (Genbank). N4Lid DOI: 10.1601/nm.2222

Xanthomonas melonis^{VP} Vauterin et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCPPB 3434. High-quality 16S rRNA sequence S000013156 (RDP), Y10756 (Genbank). N4Lid DOI: 10.1601/nm.2224

Xanthomonas oryzae^{VP} (ex Ishiyama 1922) Swings et al. 1990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35933. High-quality 16S rRNA sequence S000381398 (RDP), X95921 (Genbank). GOLD ID: Gc00256. GCAT ID: 000353_GCAT. Entrez genome id: 12931. Sequenced strain: KACC 10331 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 3 (GOLD) 2 (NCBI). N4Lid DOI: 10.1601/nm.2225

Xanthomonas perforans^{VP} Jones et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-983. N4Lid DOI: 10.1601/nm.10082

Xanthomonas phaseoli^{VP} (ex Smith 1897) Gabriel et al. 1989. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49119. N4Lid DOI: 10.1601/nm.2226

Xanthomonas pisi^{VP} (ex Goto and Okabe 1958) Vauterin et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35936. High-quality 16S rRNA sequence S000015790 (RDP), Y10758 (Genbank). N4Lid DOI: 10.1601/nm.2227

Xanthomonas populi^{VP} (ex Ridé 1958) Ridé and Ridé 1992. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51165. High-quality 16S rRNA sequence S000381399 (RDP), X95922 (Genbank). N4Lid DOI: 10.1601/nm.2228

"*Xanthomonas sacchari*" Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 471. High-quality 16S rRNA sequence S000002814 (RDP), Y10766 (Genbank). N4Lid 10.1601/nm.9187

Xanthomonas sacchari^{VP} Vauterin et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CFBP 4641. High-quality 16S rRNA sequence S000002814 (RDP), Y10766 (Genbank). N4Lid DOI: 10.1601/nm.2229

Xanthomonas theicola^{VP} Vauterin et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700184. High-quality 16S rRNA sequence S000000841 (RDP), Y10763 (Genbank). N4Lid DOI: 10.1601/nm.2230

Xanthomonas translucens^{VP} (ex Jones et al. 1917) Vauterin et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19319. N4Lid DOI: 10.1601/nm.2231

Xanthomonas vasicola^{VP} Vauterin et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CFBP 2543. High-quality 16S rRNA sequence S000015791 (RDP), Y10755 (Genbank). N4Lid DOI: 10.1601/nm.2232

Xanthomonas vesicatoria^{VP} (ex Doidge 1920) Vauterin et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35937. High-quality 16S rRNA sequence S000004412 (RDP), Y10761 (Genbank). N4Lid DOI: 10.1601/nm.2233

Genus *Aquimonas*^{VP} Saha et al. 2005. N4Lid 10.1601/nm.9523

Aquimonas voraii^{VP} Saha et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12896. High-quality 16S rRNA sequence S000548164 (RDP), AY544768 (Genbank). N4Lid 10.1601/nm.9522

Genus *Dokdonella*^{VP} Yoon et al. 2006. N4Lid 10.1601/nm.9846

Dokdonella koreensis^{VP} Yoon et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17203. High-quality 16S rRNA sequence S000571431 (RDP), AJ969432 (Genbank). N4Lid 10.1601/nm.9845

Dokdonella fugitiva^{VP} Cunha et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108692. High-quality 16S rRNA sequence S000527997 (RDP), AY987368 (Genbank). N4Lid DOI: 10.1601/nm.10191

Genus *Dyella*^{VP} Xie and Yokota 2005. N4Lid 10.1601/nm.9359

Dyella japonica^{VP} Xie and Yokota 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-939. High-quality 16S rRNA sequence S000495914 (RDP), AB110498 (Genbank). N4Lid 10.1601/nm.9358

Dyella koreensis^{VP} An et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: KCTC 12359. High-quality 16S rRNA sequence S000576723 (RDP), AY884571 (Genbank). N4Lid 10.1601/nm.9534

Dyella yejuensis^{VP} Kim et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17673. High-quality 16S rRNA sequence S000604000 (RDP), DQ181549 (Genbank). N4Lid DOI: 10.1601/nm.10282

Genus *Frateuria*^{VP} Swings et al. 1980. N4Lid DOI: 10.1601/nm.2234

Frateuria aurantia^{VP} (ex Kondô and Ameyama 1958) Swings et al. 1980. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33424. High-quality 16S rRNA sequence S000000993 (RDP), AJ010481 (Genbank). N4Lid DOI: 10.1601/nm.2235

Genus *Fulvimonas*^{VP} Mergaert et al. 2002. N4Lid DOI: 10.1601/nm.2236

Fulvimonas soli^{VP} Mergaert et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14263. High-quality 16S rRNA sequence S000446585 (RDP), AJ311653 (Genbank). N4Lid DOI: 10.1601/nm.2237

Genus *Hydrocarboniphaga*^{VP} Palleroni et al. 2004. N4Lid 10.1601/nm.8618

Hydrocarboniphaga effusa^{VP} Palleroni et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-332. High-quality 16S rRNA sequence S000547278 (RDP), AY363245 (Genbank). N4Lid 10.1601/nm.8619

Genus *Luteimonas*^{VP} Finkmann et al. 2000. N4Lid DOI: 10.1601/nm.2238

Luteimonas mephitis^{VP} Finkmann et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-11. High-quality 16S rRNA sequence S000020202 (RDP), AJ012228 (Genbank). N4Lid DOI: 10.1601/nm.2239

Genus *Lysobacter*^{AL} Christensen and Cook 1978. N4Lid DOI: 10.1601/nm.2240

Lysobacter enzymogenes subsp. enzymogenes^{VP} Christensen and Cook 1978. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29487. N4Lid DOI: 10.1601/nm.2241

"*Lysobacter enzymogenes subsp. cookii*" Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29488. N4Lid DOI: 10.1601/nm.2242

Lysobacter antibioticus^{AL} Christensen and Cook 1978. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29479. High-quality 16S rRNA sequence S000427555 (RDP), AB019582 (Genbank). N4Lid DOI: 10.1601/nm.2243

Lysobacter brunescens^{AL} Christensen and Cook 1978. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29482. N4Lid DOI: 10.1601/nm.2244

Lysobacter concretionis^{VP} Bae et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16239. High-quality 16S rRNA sequence S000542979 (RDP), AB161359 (Genbank). N4Lid 10.1601/nm.9436

Lysobacter daejeonensis^{VP} Weon et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17634. High-quality 16S rRNA sequence S000605344 (RDP), DQ191178 (Genbank). N4Lid DOI: 10.1601/nm.10040

Lysobacter gummosus^{AL} Christensen and Cook 1978. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29489. N4Lid DOI: 10.1601/nm.2245

Lysobacter koreensis^{VP} Lee et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: KCTC 12204. High-quality 16S rRNA sequence S000386312 (RDP), AB166878 (Genbank). N4Lid 10.1601/nm.9848

- Lysobacter yangpyeongensis*^{VP} Weon et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17635. N4Lid DOI: 10.1601/nm.10041
- Genus *Luteibacter***^{VP} Johansen et al. 2005. N4Lid 10.1601/nm.9721
- Luteibacter rhizovicinus*^{VP} Johansen et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1015. High-quality 16S rRNA sequence AJ580496 (RDP), AJ580496 (Genbank). N4Lid 10.1601/nm.9720
- Genus *Nevskia***^{AL} Famintzin 1892. N4Lid DOI: 10.1601/nm.2246
- Nevskia ramosa*^{AL} Famintzin 1892. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 11499. High-quality 16S rRNA sequence S000015378 (RDP), AJ001010 (Genbank). N4Lid DOI: 10.1601/nm.2247
- Genus *Pseudoxanthomonas***^{VP} Finkmann et al. 2000. N4Lid DOI: 10.1601/nm.2248
- Pseudoxanthomonas broegbernensis*^{VP} Finkmann et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-10. High-quality 16S rRNA sequence S000020206 (RDP), AJ012231 (Genbank). N4Lid DOI: 10.1601/nm.2249
- Pseudoxanthomonas daejeonensis*^{VP} Yang et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: KCTC 12207. High-quality 16S rRNA sequence S000503245 (RDP), AY550264 (Genbank). N4Lid 10.1601/nm.9366
- Pseudoxanthomonas japonensis*^{VP} Thierry et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 48231. High-quality 16S rRNA sequence S000457636 (RDP), AB008507 (Genbank). N4Lid 10.1601/nm.8801
- Pseudoxanthomonas kalamensis*^{VP} Harada et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1031. High-quality 16S rRNA sequence S000375272 (RDP), AY686710 (Genbank). N4Lid DOI: 10.1601/nm.10051
- Pseudoxanthomonas kaohsiungensis*^{VP} Chang et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22530. High-quality 16S rRNA sequence S000504763 (RDP), AY650027 (Genbank). N4Lid 10.1601/nm.9402
- Pseudoxanthomonas koreensis*^{VP} Yang et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: KCTC 12208. High-quality 16S rRNA sequence S000503244 (RDP), AY550263 (Genbank). N4Lid 10.1601/nm.9365
- Pseudoxanthomonas mexicana*^{VP} Thierry et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700993. High-quality 16S rRNA sequence S000322431 (RDP), AF273082 (Genbank). N4Lid 10.1601/nm.8802
- Pseudoxanthomonas suwonensis*^{VP} Weon et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17175. High-quality 16S rRNA sequence S000494000 (RDP), AY927994 (Genbank). N4Lid 10.1601/nm.9954
- Pseudoxanthomonas taiwanensis*^{VP} Chen et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-404. High-quality 16S rRNA sequence S000499737 (RDP), AF427039 (Genbank). N4Lid DOI: 10.1601/nm.2250
- Genus *Rhodanobacter***^{VP} Nalin et al. 1999. N4Lid DOI: 10.1601/nm.2251
- Rhodanobacter lindaniclasticus*^{VP} Nalin et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 18385. High-quality 16S rRNA sequence S000427978 (RDP), AF039167 (Genbank). N4Lid DOI: 10.1601/nm.2252
- Rhodanobacter fulvus*^{VP} Im et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: KCTC 12098. High-quality 16S rRNA sequence S000445670 (RDP), AB100608 (Genbank). N4Lid 10.1601/nm.9299
- Rhodanobacter spathiphylli*^{VP} De Clercq et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17631. High-quality 16S rRNA sequence S000592822 (RDP), AM087226 (Genbank). N4Lid DOI: 10.1601/nm.10231
- Genus *Schineria***^{VP} Tóth et al. 2001. N4Lid DOI: 10.1601/nm.2253
- Schineria larvae*^{VP} Toth et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13226. High-quality 16S rRNA sequence S000129975 (RDP), AJ252143 (Genbank). N4Lid DOI: 10.1601/nm.2254
- Genus *Silanimonas***^{VP} Lee et al. 2005. N4Lid 10.1601/nm.8847

Silanimonas lenta^{VP} Lee et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16282. High-quality 16S rRNA sequence S000475023 (RDP), AY557615 (Genbank). N4Lid 10.1601/nm.8848

Genus *Stenotrophomonas*^{VP} Palleroni and Bradbury 1993. GOLD ID: Gi01461. GCAT ID: 000927_GCAT. Sequenced strain: SKA14 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.2255

Stenotrophomonas maltophilia^{VP} (Hugh 1981) Palleroni and Bradbury 1993. <== *Pseudomonas maltophilia* (basonym). Synonym links through N4Lid: 10.1601/ex.2636. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13637. High-quality 16S rRNA sequence S000381870 (RDP), AB008509 (Genbank). GOLD ID: Gi00603. GCAT ID: 001524_GCAT. Sequenced strain: K279a is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 2 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2256

† *Stenotrophomonas africana*^{VP} Drancourt et al. 1997. ≈ *Stenotrophomonas maltophilia* (earlier heterotypic synonym), links through 10.1601/nm.2256. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700475. N4Lid DOI: 10.1601/nm.2258

† *Pseudomonas maltophilia*^{VP} (ex Hugh and Ryschenkow 1961) Hugh 1981. ==> *Xanthomonas maltophilia* (new combination). Synonym links through N4Lid: 10.1601/ex.2636. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13637. High-quality 16S rRNA sequence S000381870 (RDP), AB008509 (Genbank). GOLD ID: Gi00603. GCAT ID: 001524_GCAT. Sequenced strain: K279a is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 2 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2636

† *Xanthomonas maltophilia*^{VP} (Hugh 1981) Swings et al. 1983. <== *Pseudomonas maltophilia* (basonym). *Stenotrophomonas maltophilia* (new combination). Synonym links through N4Lid: 10.1601/ex.2636. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13637. High-quality 16S rRNA sequence S000381870 (RDP), AB008509 (Genbank). GOLD ID: Gi00603. GCAT ID: 001524_GCAT. Sequenced strain: K279a is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 2 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2223

Stenotrophomonas acidaminiphila^{VP} Assih et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700916. High-quality 16S rRNA sequence S000390459 (RDP), AF273080 (Genbank). N4Lid DOI: 10.1601/nm.2257

Stenotrophomonas dokdonensis^{VP} Yoon et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108839. High-quality 16S rRNA sequence S000603879 (RDP), DQ178977 (Genbank). N4Lid DOI: 10.1601/nm.10112

Stenotrophomonas koreensis^{VP} Yang et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 13256. High-quality 16S rRNA sequence S000386319 (RDP), AB166885 (Genbank). N4Lid 10.1601/nm.9839

Stenotrophomonas nitritireducens^{VP} Finkmann et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-12. High-quality 16S rRNA sequence S000003927 (RDP), AJ012229 (Genbank). N4Lid DOI: 10.1601/nm.2259

Stenotrophomonas rhizophila^{VP} Wolf et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-473. High-quality 16S rRNA sequence S000129976 (RDP), AJ293463 (Genbank). N4Lid DOI: 10.1601/nm.2260

Genus *Thermomonas*^{VP} Busse et al. 2002. N4Lid DOI: 10.1601/nm.2261

Thermomonas haemolytica^{VP} Busse et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13605. High-quality 16S rRNA sequence S000126665 (RDP), AJ300185 (Genbank). N4Lid DOI: 10.1601/nm.2262

Thermomonas brevis^{VP} Mergaert et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15422. High-quality 16S rRNA sequence S000251741 (RDP), AJ519989 (Genbank). N4Lid DOI: 10.1601/nm.2263

Thermomonas fusca^{VP} Mergaert et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15424. High-quality 16S rRNA sequence S000251955 (RDP), AJ519986 (Genbank). N4Lid DOI: 10.1601/nm.2264

Thermomonas hydrothermalis^{VP} Alves et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-470. High-quality 16S rRNA sequence S000140772 (RDP), AF542054 (Genbank). N4Lid DOI: 10.1601/nm.2265

Thermomonas koreensis^{VP} Kim et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: KCTC 12540. High-quality 16S rRNA sequence S000588727 (RDP), DQ154906 (Genbank). N4Lid DOI: 10.1601/nm.10163

Genus *Xylella*^{VP} Wells et al. 1987. N4Lid DOI: 10.1601/nm.2266

Xylella fastidiosa^{VP} Wells et al. 1987. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35879. High-quality 16S rRNA sequence S000528548 (RDP). GOLD ID: Gc00033. GCAT ID: 000577_GCAT. Entrez genome id: 271. Sequenced strain: 8.1.b clone 9.a.5.c is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 7 (GOLD) 6 (NCBI). N4Lid DOI: 10.1601/nm.2267

Order *Cardiobacteriales*^{VP} Garrity et al 2005. N4Lid DOI: 10.1601/nm.2268

Family *Cardiobacteriaceae*^{VP} Dewhirst et al 1990. N4Lid DOI: 10.1601/nm.2269

Genus *Cardiobacterium*^{AL} Slotnick and Dougherty 1964. N4Lid DOI: 10.1601/nm.2270

Cardiobacterium hominis^{AL} Slotnick and Dougherty 1964. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15826. High-quality 16S rRNA sequence S000436249 (RDP), M35014 (Genbank). N4Lid DOI: 10.1601/nm.2271

Cardiobacterium valvarum^{VP} Han et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-694. High-quality 16S rRNA sequence S000351163 (RDP), AF506987 (Genbank). N4Lid DOI: 10.1601/nm.8531

Genus *Dichelobacter*^{VP} Dewhirst et al. 1990. N4Lid DOI: 10.1601/nm.2272

Dichelobacter nodosus^{VP} (Beveridge 1941) Dewhirst et al. 1990. <== *Bacteroides nodosus* (basonym). Synonym links through N4Lid: 10.1601/ex.7968. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25549. GOLD ID: Gi00198. GCAT ID: 001003_GCAT. Entrez genome id: 50. Sequenced strain: VCS1703A is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2273

† *Bacteroides nodosus*^{AL} (Beveridge 1941) Mraz 1963. ==> *Dichelobacter nodosus* (new combination). Synonym links through N4Lid: 10.1601/ex.7968. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25549. GOLD ID: Gi00198. GCAT ID: 001003_GCAT. Entrez genome id: 50. Sequenced strain: VCS1703A is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.7968

Genus *Suttonella*^{VP} Dewhirst et al. 1990. N4Lid DOI: 10.1601/nm.2274

Suttonella indologenes^{VP} (Snell and Lapage 1976) Dewhirst et al. 1990. <== *Kingella indologenes* (basonym). Synonym links through N4Lid: 10.1601/ex.1970. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25869. High-quality 16S rRNA sequence S000436250 (RDP), M35015 (Genbank). N4Lid DOI: 10.1601/nm.2275

† *Kingella indologenes*^{AL} Snell and Lapage 1976. ==> *Suttonella indologenes* (new combination). Synonym links through N4Lid: 10.1601/ex.1970. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25869. High-quality 16S rRNA sequence S000436250 (RDP), M35015 (Genbank). N4Lid DOI: 10.1601/nm.1970

Suttonella ornithocola^{VP} Foster et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 49457. High-quality 16S rRNA sequence S000623308 (RDP), AJ717394 (Genbank). N4Lid 10.1601/nm.9717

Order *Thiotrichales*^{VP} Garrity et al 2005. N4Lid DOI: 10.1601/nm.2276

Family *Thiotrichaceae*^{VP} Garrity et al 2005. N4Lid DOI: 10.1601/nm.2277

Genus *Thiothrix*^{AL} Winogradsky 1888. N4Lid DOI: 10.1601/nm.2278

Thiothrix nivea^{AL} (Rabenhorst 1865) Winogradsky 1888. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35100. High-quality 16S rRNA sequence S000435964 (RDP), L40993 (Genbank). N4Lid DOI: 10.1601/nm.2279

Thiothrix defluvii^{VP} Howarth et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: Ben57. N4Lid DOI: 10.1601/nm.2280

- Thiothrix disciformis*^{VP} Aruga et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14473. High-quality 16S rRNA sequence S000383242 (RDP), AB042532 (Genbank). N4Lid DOI: 10.1601/nm.2281
- Thiothrix eikelboomii*^{VP} Howarth et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49788. High-quality 16S rRNA sequence S000018394 (RDP), AB042819 (Genbank). N4Lid DOI: 10.1601/nm.2282
- Thiothrix flexilis*^{VP} Aruga et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14609. High-quality 16S rRNA sequence S000383255 (RDP), AB042545 (Genbank). N4Lid DOI: 10.1601/nm.2283
- Thiothrix fructosivorans*^{VP} Howarth et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49748. N4Lid DOI: 10.1601/nm.2284
- Thiothrix unzii*^{VP} Howarth et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49747. N4Lid DOI: 10.1601/nm.2285
- Genus *Achromatium***^{AL} Schewiakoff 1893. N4Lid DOI: 10.1601/nm.2286
- Achromatium oxaliferum*^{AL} Schewiakoff 1893. Source of type material recommended for DOE sponsored genome sequencing by the JGI: no culture isolated. High-quality 16S rRNA sequence S000435985 (RDP), L42543 (Genbank). N4Lid DOI: 10.1601/nm.2287
- Genus *Beggiatoa***^{AL} Trevisan 1842. GOLD ID: Gi01404. GCAT ID: 000858_GCAT. Genome sequence is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 2 (NCBI). N4Lid DOI: 10.1601/nm.2288
- Beggiatoa alba*^{AL} (Vaucher 1803) Trevisan 1845. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33555. GOLD ID: Gi01563. GCAT ID: 000857_GCAT. Sequenced strain: B18LD is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.2289
- Genus *Leucothrix***^{AL} Oersted 1844. N4Lid DOI: 10.1601/nm.2290
- Leucothrix mucor*^{AL} Oersted 1844. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25107. High-quality 16S rRNA sequence S000004758 (RDP), X87277 (Genbank). N4Lid DOI: 10.1601/nm.2291
- Genus *Thiobacterium***^{VP} (ex Janke 1924) La Riviere and Kuenen 1989. N4Lid DOI: 10.1601/nm.2292
- Thiobacterium bovistum*^{VP} corrig. (ex Molisch 1912) La Riviere and Kuenen 1989. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.2293
- Genus *Thiomargarita***^{VP} Schulz et al. 1999. N4Lid DOI: 10.1601/nm.2294
- Thiomargarita namibiensis*^{VP} Schulz et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.2295
- Genus *Thioploca***^{AL} Lauterborn 1907. N4Lid DOI: 10.1601/nm.2296
- Thioploca schmidlei*^{AL} Lauterborn 1907. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.2297
- Thioploca araucae*^{VP} Maier and Gallardo 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. GOLD ID: Gi01693. GCAT ID: 000689_GCAT. Sequenced strain: Tha-CCL is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.2298
- Thioploca chileae*^{VP} Maier and Gallardo 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.2299
- Thioploca ingraca*^{VP} (ex Vislough 1911) Maier 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: no pure culture. High-quality 16S rRNA sequence S000435967 (RDP), L40998 (Genbank). N4Lid DOI: 10.1601/nm.2300
- Genus *Thiospira***^{AL} Vislough 1914. N4Lid DOI: 10.1601/nm.2301

Thiospira winogradskyi^{AL} (Omelianski 1905) Visloukh 1914. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.2302

Family Francisellaceae^{VP} Sjöstedt 2005. N4Lid DOI: 10.1601/nm.2303

Genus Francisella^{AL} Dorofe'ev 1947. N4Lid DOI: 10.1601/nm.2304

Francisella tularensis subsp. tularensis^{VP} (McCoy and Chapin 1912) Dorofe'ev 1947. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 6223. High-quality 16S rRNA sequence S000128268 (RDP), Z21931 (Genbank). GOLD ID: Gc00241. GCAT ID: 000368_GCAT. Entrez genome id: 9. Sequenced strain: SCHU S4 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 15 (GOLD) 2 (NCBI). N4Lid DOI: 10.1601/nm.2305

Francisella tularensis subsp. holarctica^{VP} (ex Olsufjev et al. 1959) Olsufjev and Meshcheryakova 1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: GIEM 503. GOLD ID: Gi01160. GCAT ID: 001090_GCAT. Entrez genome id: 16087. Sequenced strain: FSC200 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 2 (GOLD) 4 (NCBI). N4Lid DOI: 10.1601/nm.2306

Francisella tularensis subsp. mediasiatica^{VP} (ex Aikimbaev 1966) Olsufjev and Meshcheryakova 1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: GIEM 543. N4Lid DOI: 10.1601/nm.2307

† *Francisella novicida*^{AL} (Larson et al. 1955) Olsufjev et al. 1959. ==> *Francisella tularensis subsp. novicida* (new combination). Synonym links through N4Lid: 10.1601/ex.2309. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15482. GOLD ID: Gc00465. GCAT ID: 000144_GCAT. Entrez genome id: 16088. Sequenced strain: U112 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 4 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2309

"*Francisella tularensis subsp. novicida*" Invalid name, *Francisella novicida* (basonym). Synonym links through N4Lid: 10.1601/ex.2309. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15482. High-quality 16S rRNA sequence S000598385 (RDP). GOLD ID: Gc00465. GCAT ID: 000144_GCAT. Entrez genome id: 16088. Sequenced strain: U112 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 4 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2308

Francisella philomiragia^{VP} (Jensen et al. 1969) Hollis et al. 1990. <== *Yersinia philomiragia* (basonym). Synonym links through N4Lid: 10.1601/ex.3362. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25015. High-quality 16S rRNA sequence S000352704 (RDP), AJ698862 (Genbank). GOLD ID: Gi00253. GCAT ID: 001059_GCAT. Entrez genome id: 16089. Sequenced strain: ATCC 25017 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 2 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2310

† *Yersinia philomiragia*^{AL} Jensen et al. 1969. ==> *Francisella philomiragia* (new combination). Synonym links through N4Lid: 10.1601/ex.3362. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25015. High-quality 16S rRNA sequence S000352704 (RDP), AJ698862 (Genbank). GOLD ID: Gi00253. GCAT ID: 001059_GCAT. Entrez genome id: 16089. Sequenced strain: ATCC 25017 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 2 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3362

Family Piscirickettsiaceae^{VP} Fryer and Lannan 2005. N4Lid DOI: 10.1601/nm.2311

Genus Piscirickettsia^{VP} Fryer et al. 1992. N4Lid DOI: 10.1601/nm.2312

Piscirickettsia salmonis^{VP} Fryer et al. 1992. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC(R) VR 1361. High-quality 16S rRNA sequence S000437509 (RDP), U36941 (Genbank). N4Lid DOI: 10.1601/nm.2313

Genus Cycloclasticus^{VP} Dyksterhouse et al. 1995. N4Lid DOI: 10.1601/nm.2314

Cycloclasticus pugetii^{VP} Dyksterhouse et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51542. High-quality 16S rRNA sequence S000437123 (RDP), U12624 (Genbank). N4Lid DOI: 10.1601/nm.2315

Genus Hydrogenovibrio^{VP} Nishihara et al. 1991. N4Lid DOI: 10.1601/nm.2316

- Hydrogenovibrio marinus*^{VP} Nishihara et al. 1991. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 11271. High-quality 16S rRNA sequence S000015332 (RDP), D86374 (Genbank). N4Lid DOI: 10.1601/nm.2317
- Genus *Methylophaga***^{VP} Janvier et al. 1985. GOLD ID: Gi01422. GCAT ID: 000886_GCAT. Sequenced strain: DMS010 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.2318
- Methylophaga marina*^{VP} Janvier et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35842. High-quality 16S rRNA sequence S000010042 (RDP), X87338 (Genbank). N4Lid DOI: 10.1601/nm.2319
- Methylophaga alcalica*^{VP} Doronina et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-297. High-quality 16S rRNA sequence S000392835 (RDP), AF384373 (Genbank). N4Lid DOI: 10.1601/nm.2320
- Methylophaga sulfidovorans*^{VP} de Zwart et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 105175. High-quality 16S rRNA sequence S000128225 (RDP), X95461 (Genbank). N4Lid DOI: 10.1601/nm.2321
- Methylophaga thalassica*^{VP} Janvier et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33146. High-quality 16S rRNA sequence S000001008 (RDP), X87339 (Genbank). GOLD ID: Gi00372. GCAT ID: 001211_GCAT. Entrez genome id: 13471. Sequenced strain: S1 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2322
- Genus *Sulfurivirga***^{VP} Takai et al. 2006. N4Lid DOI: 10.1601/nm.10250
- Sulfurivirga caldicurallii*^{VP} Takai et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17737. High-quality 16S rRNA sequence S000627947 (RDP), AB245479 (Genbank). N4Lid DOI: 10.1601/nm.10249
- Genus *Thioalkalimicrobium***^{VP} Sorokin et al. 2001. N4Lid 10.1601/nm.9212
- Thioalkalimicrobium aerophilum*^{VP} Sorokin et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13739. High-quality 16S rRNA sequence S000387299 (RDP), AF126548 (Genbank). N4Lid 10.1601/nm.9213
- Thioalkalimicrobium cyclicum*^{VP} Sorokin et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14477. High-quality 16S rRNA sequence S000391693 (RDP), AF329082 (Genbank). N4Lid 10.1601/nm.9225
- Thioalkalimicrobium sibiricum*^{VP} corrig. Sorokin et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13740. High-quality 16S rRNA sequence S000387300 (RDP), AF126549 (Genbank). N4Lid 10.1601/nm.9214
- Genus *Thiomicrospira***^{AL} Kuenen and Veldkamp 1972. N4Lid DOI: 10.1601/nm.2327
- Thiomicrospira pelophila*^{AL} Kuenen and Veldkamp 1972. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27801. High-quality 16S rRNA sequence S000435957 (RDP), L40809 (Genbank). N4Lid DOI: 10.1601/nm.2328
- Thiomicrospira arctica*^{VP} Knittel et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700955. High-quality 16S rRNA sequence S000483880 (RDP), AJ404731 (Genbank). N4Lid 10.1601/nm.9363
- Thiomicrospira chilensis*^{VP} Brinkhoff et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700858. High-quality 16S rRNA sequence S000387122 (RDP), AF013975 (Genbank). N4Lid DOI: 10.1601/nm.2329
- Thiomicrospira crunogena*^{VP} Jannasch et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35932. High-quality 16S rRNA sequence S000435958 (RDP), L40810 (Genbank). GOLD ID: Gc00316. GCAT ID: 000294_GCAT. Entrez genome id: 13018. Sequenced strain: XCL-2 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2330
- Thiomicrospira frisia*^{VP} Brinkhoff et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700878. High-quality 16S rRNA sequence S000387121 (RDP), AF013974 (Genbank). N4Lid DOI: 10.1601/nm.2332

Thiomicrospira kuenenii^{VP} Brinkhoff et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700877. High-quality 16S rRNA sequence S000387124 (RDP), AF013978 (Genbank). N4Lid DOI: 10.1601/nm.2333

Thiomicrospira psychrophila^{VP} Knittel et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700954. High-quality 16S rRNA sequence S000483881 (RDP), AJ404732 (Genbank). N4Lid 10.1601/nm.9364

Thiomicrospira thermophila^{VP} Takai et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-923. High-quality 16S rRNA sequence S000439523 (RDP), AB166731 (Genbank). N4Lid 10.1601/nm.8892

Thiomicrospira thyasirae^{VP} (Wood and Kelly 1995) Wood and Kelly 1995. <== *Thiobacillus thyasiris* (basonym). Synonym links through N4Lid: 10.1601/ex.1894. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51452. High-quality 16S rRNA sequence S000387146 (RDP), AF016046 (Genbank). N4Lid DOI: 10.1601/nm.2334

† *Thiobacillus thyasiris*^{VP} Wood and Kelly 1995. ==> *Thiomicrospira thyasirae* (new combination). Synonym links through N4Lid: 10.1601/ex.1894. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51452. High-quality 16S rRNA sequence S000387146 (RDP), AF016046 (Genbank). N4Lid DOI: 10.1601/nm.1894

Order Legionellales^{VP} Garrity et al 2005. N4Lid DOI: 10.1601/nm.2335

Family Legionellaceae^{AL} Brenner et al 1979. N4Lid DOI: 10.1601/nm.2336

Genus Legionella^{AL} Brenner et al. 1979. ≈ *Legionella* (later heterotypic synonym), links through 10.1601/nm.2337. N4Lid DOI: 10.1601/nm.2337

Legionella pneumophila subsp. pneumophila^{VP} Brenner et al. 1979. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33152. High-quality 16S rRNA sequence S000436520 (RDP), M59157 (Genbank). GOLD ID: Gc00219. GCAT ID: 000391_GCAT. Entrez genome id: 22. Sequenced strain: ATCC 33152 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 4 (GOLD) 5 (NCBI). N4Lid DOI: 10.1601/nm.2338

Legionella drancourtii^{VP} La Scola et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 50991. High-quality 16S rRNA sequence S000334574 (RDP), X97366 (Genbank). N4Lid 10.1601/nm.8668

Legionella pneumophila subsp. fraseri^{VP} Brenner et al. 1989. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33156. N4Lid DOI: 10.1601/nm.2339

Legionella pneumophila subsp. pascullei^{VP} Brenner et al. 1989. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33737. N4Lid DOI: 10.1601/nm.2340

Legionella adelaidensis^{VP} Benson et al. 1991. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49625. N4Lid DOI: 10.1601/nm.2341

Legionella anisa^{VP} Gorman et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35292. High-quality 16S rRNA sequence S000016423 (RDP), X73394 (Genbank). GOLD ID: Gi01015. GCAT ID: 001159_GCAT. Genome sequence is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.2342

Legionella beliardensis^{VP} Lo Presti et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700512. High-quality 16S rRNA sequence S000387192 (RDP), AF122884 (Genbank). N4Lid DOI: 10.1601/nm.2343

Legionella birminghamensis^{VP} Wilkinson et al. 1988. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43702. N4Lid DOI: 10.1601/nm.2344

Legionella bozemanae^{VP} corrig. Brenner et al. 1980. == *Fluoribacter bozemanae* (earlier homotypic synonym), links through 10.1601/ex.2345. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33217. High-quality 16S rRNA sequence S000436267 (RDP), M36031 (Genbank). N4Lid DOI: 10.1601/nm.2345

† *Fluoribacter bozemanae*^{VP} Garrity et al. 1980. == *Legionella bozemanae* (later homotypic synonym), links through 10.1601/ex.2345. Source of type material recommended for DOE

sponsored genome sequencing by the JGI: ATCC 33217. High-quality 16S rRNA sequence S000436267 (RDP), M36031 (Genbank). N4Lid 10.1601/nm.9093

Legionella brunensis^{VP} Wilkinson et al. 1989. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43878. High-quality 16S rRNA sequence S000008509 (RDP), Z32636 (Genbank). N4Lid DOI: 10.1601/nm.2346

Legionella busanensis^{VP} Park et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-518. High-quality 16S rRNA sequence S000393915 (RDP), AF424887 (Genbank). N4Lid DOI: 10.1601/nm.2347

Legionella cherrii^{VP} Brenner et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35252. High-quality 16S rRNA sequence S000005110 (RDP), X73404 (Genbank). N4Lid DOI: 10.1601/nm.2348

Legionella cincinnatiensis^{VP} Thacker et al. 1989. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43753. High-quality 16S rRNA sequence S000011213 (RDP), X73407 (Genbank). N4Lid DOI: 10.1601/nm.2349

† *Fluoribacter dumoffii*^{VP} (Brenner et al. 1980) Brown et al. 1981. <== *Legionella dumoffii* (basonym). Synonym links through N4Lid: 10.1601/ex.2350. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33279. High-quality 16S rRNA sequence S000010819 (RDP), X73405 (Genbank). N4Lid 10.1601/nm.9101

Legionella dumoffii^{VP} Brenner et al. 1980. ==> *Fluoribacter dumoffii* (new combination). Synonym links through N4Lid: 10.1601/ex.2350. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33279. High-quality 16S rRNA sequence S000010819 (RDP), X73405 (Genbank). N4Lid DOI: 10.1601/nm.2350

Legionella drozanskii^{VP} Adeleke et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700990. N4Lid DOI: 10.1601/nm.2351

Legionella erythra^{VP} Brenner et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35303. High-quality 16S rRNA sequence S000003517 (RDP), Z32638 (Genbank). N4Lid DOI: 10.1601/nm.2352

Legionella fairfieldensis^{VP} Thacker et al. 1991. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49588. N4Lid DOI: 10.1601/nm.2353

Legionella fallonii^{VP} Adeleke et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700992. N4Lid DOI: 10.1601/nm.2354

Legionella feeleei^{VP} Herwaldt et al. 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35072. High-quality 16S rRNA sequence S000000143 (RDP), X73395 (Genbank). N4Lid DOI: 10.1601/nm.2355

Legionella geestiana^{VP} Dennis et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49504. N4Lid DOI: 10.1601/nm.2356

Legionella gratiana^{VP} Bornstein et al. 1991. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49413. N4Lid DOI: 10.1601/nm.2358

Legionella gormanii^{VP} Morris et al. 1980. ==> *Fluoribacter gormanii* (new combination). Synonym links through N4Lid: 10.1601/ex.2357. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33297. High-quality 16S rRNA sequence S000011214 (RDP), Z32639 (Genbank). N4Lid DOI: 10.1601/nm.2357

† *Fluoribacter gormanii*^{VP} (Morris et al. 1980) Brown et al. 1981. <== *Legionella gormanii* (basonym). Synonym links through N4Lid: 10.1601/ex.2357. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33297. High-quality 16S rRNA sequence S000011214 (RDP), Z32639 (Genbank). N4Lid 10.1601/nm.9102

Legionella gresilensis^{VP} Lo Presti et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700509. High-quality 16S rRNA sequence S000387191 (RDP), AF122883 (Genbank). N4Lid DOI: 10.1601/nm.2359

Legionella hackeliae^{VP} Brenner et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35250. High-quality 16S rRNA sequence S000436264 (RDP), M36028 (Genbank). GOLD ID: Gi00826. GCAT ID: 001160_GCAT. Entrez genome id: 13436. Sequenced strain: LLAP10 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2360

- Legionella israelensis*^{VP} Bercovier et al. 1986. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43119. High-quality 16S rRNA sequence S000004340 (RDP), X73408 (Genbank). N4Lid DOI: 10.1601/nm.2361
- Legionella jamestowniensis*^{VP} Brenner et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35298. High-quality 16S rRNA sequence S000004341 (RDP), X73409 (Genbank). N4Lid DOI: 10.1601/nm.2362
- Legionella jordani*^{VP} Cherry et al. 1982. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33623. High-quality 16S rRNA sequence S000016060 (RDP), X73396 (Genbank). N4Lid DOI: 10.1601/nm.2363
- Legionella lansingensis*^{VP} Thacker et al. 1994. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49751. N4Lid DOI: 10.1601/nm.2364
- Legionella londiniensis*^{VP} Dennis et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49505. N4Lid DOI: 10.1601/nm.2365
- Legionella longbeachae*^{VP} McKinney et al. 1982. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33462. High-quality 16S rRNA sequence S000436265 (RDP), M36029 (Genbank). GOLD ID: Gi01014. GCAT ID: 001158_GCAT. Entrez genome id: 16090. Genome sequence is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2366
- Legionella lytica*^{VP} (Drozanski 1991) Hookey et al. 1996. <== *Sarcobium lyticum* (basonym). Synonym links through N4Lid: 10.1601/ex.2367. Source of type material recommended for DOE sponsored genome sequencing by the JGI: PCM 2298. High-quality 16S rRNA sequence S000000811 (RDP), X97364 (Genbank). N4Lid DOI: 10.1601/nm.2367
- † *Sarcobium lyticum*^{VP} Drozanski 1991. ==> *Legionella lytica* (new combination). Synonym links through N4Lid: 10.1601/ex.2367. Source of type material recommended for DOE sponsored genome sequencing by the JGI: PCM 2298. High-quality 16S rRNA sequence S000000811 (RDP), X97364 (Genbank). N4Lid 10.1601/nm.9165
- † *Legionella maceachernii*^{VP} Brenner et al. 1985. ==> *Tatlockia maceachernii* (new combination). Synonym links through N4Lid: 10.1601/ex.2368. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35300. High-quality 16S rRNA sequence S000009257 (RDP), Z32641 (Genbank). N4Lid DOI: 10.1601/nm.2368
- † *Tatlockia maceachernii*^{VP} (Brenner et al. 1985) Fox et al. 1991. <== *Legionella maceachernii* (basonym). Synonym links through N4Lid: 10.1601/ex.2368. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35300. High-quality 16S rRNA sequence S000009257 (RDP), Z32641 (Genbank). N4Lid 10.1601/nm.9162
- Legionella micdadei*^{VP} Hébert et al. 1980. == *Tatlockia micdadei* (earlier homotypic synonym), links through 10.1601./ex.2369. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33218. High-quality 16S rRNA sequence S000436268 (RDP), M36032 (Genbank). GOLD ID: Gi00825. GCAT ID: 001157_GCAT. Genome sequence is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.2369
- † *Legionella pittsburghensis*^{VP} Pasculle et al. 1980. == *Tatlockia micdadei* (earlier homotypic synonym), links through 10.1601./ex.2369. Source of type material recommended for DOE sponsored genome sequencing by the JGI: TATLOCK. High-quality 16S rRNA sequence S000436268 (RDP), M36032 (Genbank). N4Lid DOI: 10.1601/nm.2374
- † *Tatlockia micdadei*^{VP} Garrity et al. 1980. == *Legionella pittsburghensis* (later homotypic synonym), links through 10.1601./ex.2369. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33218. High-quality 16S rRNA sequence S000436268 (RDP), M36032 (Genbank). GOLD ID: Gi00825. GCAT ID: 001157_GCAT. Genome sequence is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 0 (NCBI). N4Lid 10.1601/nm.9095
- Legionella moravica*^{VP} Wilkinson et al. 1989. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43877. N4Lid DOI: 10.1601/nm.2370
- Legionella nautarum*^{VP} Dennis et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49506. N4Lid DOI: 10.1601/nm.2371

Legionella oakridgensis^{VP} Orrison et al. 1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33761. High-quality 16S rRNA sequence S000010036 (RDP), X73397 (Genbank). N4Lid DOI: 10.1601/nm.2372

Legionella parisiensis^{VP} Brenner et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35299. N4Lid DOI: 10.1601/nm.2373

Legionella quateirensis^{VP} Dennis et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49507. N4Lid DOI: 10.1601/nm.2375

Legionella quinlivanii^{VP} Benson et al. 1990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43830. N4Lid DOI: 10.1601/nm.2376

Legionella rowbothamii^{VP} Adeleke et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700991. N4Lid DOI: 10.1601/nm.2377

Legionella rubrilucens^{VP} Brenner et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35304. High-quality 16S rRNA sequence S000002733 (RDP), X73398 (Genbank). N4Lid DOI: 10.1601/nm.2378

Legionella sainthelensi^{VP} Campbell et al. 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35248. High-quality 16S rRNA sequence S000000625 (RDP), X73399 (Genbank). N4Lid DOI: 10.1601/nm.2379

Legionella santicrucis^{VP} Brenner et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35301. N4Lid DOI: 10.1601/nm.2380

Legionella shakespearei^{VP} Verma et al. 1992. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49655. N4Lid DOI: 10.1601/nm.2381

Legionella spiritensis^{VP} Brenner et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35249. High-quality 16S rRNA sequence S000436266 (RDP), M36030 (Genbank). N4Lid DOI: 10.1601/nm.2382

Legionella steigerwaltii^{VP} Brenner et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35302. High-quality 16S rRNA sequence S000009258 (RDP), X73400 (Genbank). N4Lid DOI: 10.1601/nm.2383

Legionella taurinensis^{VP} Lo Presti et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700508. High-quality 16S rRNA sequence S000569986 (RDP), AF037597 (Genbank). N4Lid DOI: 10.1601/nm.2384

Legionella tucsonensis^{VP} Thacker et al. 1990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49180. High-quality 16S rRNA sequence S000008153 (RDP), Z32644 (Genbank). N4Lid DOI: 10.1601/nm.2385

Legionella wadsworthii^{VP} Edelstein et al. 1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33877. High-quality 16S rRNA sequence S000000243 (RDP), X73401 (Genbank). N4Lid DOI: 10.1601/nm.2386

Legionella waltersii^{VP} Benson et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51914. High-quality 16S rRNA sequence S000387194 (RDP), AF122886 (Genbank). N4Lid DOI: 10.1601/nm.2387

Legionella worsleiensis^{VP} Dennis et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49508. N4Lid DOI: 10.1601/nm.2388

Genus † *Fluoribacter*^{VP} Garrity et al. 1980. == *Fluoribacter* (later homotypic synonym), links through 10.1601/nm.9092. N4Lid 10.1601/nm.9092

Genus † *Sarcobium*^{VP} Drozanski 1991. == *Legionella* (earlier heterotypic synonym), links through 10.1601/nm.2337. N4Lid 10.1601/nm.9163

Genus † *Tatlockia*^{VP} Garrity et al. 1980. == *Tatlockia* (later homotypic synonym), links through 10.1601/nm.9094. N4Lid 10.1601/nm.9094

Family *Coxiellaceae*^{VP} Garrity et al 2005. N4Lid DOI: 10.1601/nm.2389

Genus *Coxiella*^{AL} (Philip 1943) Philip 1948. N4Lid DOI: 10.1601/nm.2390

Coxiella burnetii^{AL} (Derrick 1939) Philip 1948. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC VR-615. High-quality 16S rRNA sequence S000735430 (RDP). GOLD ID: Gc00133. GCAT ID: 000477_GCAT. Entrez genome id: 41. Sequenced strain: Nine Mile phase I / RSA 493 is from a non-type strain. Genome sequencing is

completed. Number of genomes of this species sequenced 5 (GOLD) 4 (NCBI). N4Lid DOI: 10.1601/nm.2391

Genus *Aquicella* ^{VP} Santos et al. 2004. N4Lid DOI: 10.1601/nm.2392

Aquicella lusitana ^{VP} Santos et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 107650. High-quality 16S rRNA sequence S000408382 (RDP), AY359282 (Genbank). N4Lid DOI: 10.1601/nm.2393

Aquicella siphonis ^{VP} Santos et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 107651. High-quality 16S rRNA sequence S000408383 (RDP), AY359283 (Genbank). N4Lid DOI: 10.1601/nm.2394

Genus *Rickettsiella* ^{AL} Philip 1956. N4Lid DOI: 10.1601/nm.2395

Rickettsiella popilliae ^{AL} (Dutky and Gooden 1952) Philip 1956. Source of type material recommended for DOE sponsored genome sequencing by the JGI: no culture isolated. N4Lid DOI: 10.1601/nm.2396

Rickettsiella chironomi ^{VP} (ex Weiser 1963) Weiss et al. 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: no culture isolated. N4Lid DOI: 10.1601/nm.2397

Rickettsiella grylli ^{VP} (ex Vago and Martoja 1963) Weiss et al. 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: no culture isolated. High-quality 16S rRNA sequence S000438919 (RDP), U97547 (Genbank). GOLD ID: Gi01275. GCAT ID: 001422_GCAT. Entrez genome id: 16722. Genome sequence is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2398

Rickettsiella stethorae ^{AL} Hall and Badgley 1957. Source of type material recommended for DOE sponsored genome sequencing by the JGI: no culture isolated. N4Lid DOI: 10.1601/nm.2399

Order *Methylococcales* ^{VP} Bowman 2005. N4Lid DOI: 10.1601/nm.2400

Family *Methylococcaceae* ^{VP} Whittenbury and Krieg 1984. N4Lid DOI: 10.1601/nm.2401

Genus *Methylococcus* ^{AL} Foster and Davis 1966. N4Lid DOI: 10.1601/nm.2402

Methylococcus capsulatus ^{AL} Foster and Davis 1966. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19069. High-quality 16S rRNA sequence S000002740 (RDP), X72770 (Genbank). GOLD ID: Gc00217. GCAT ID: 000393_GCAT. Entrez genome id: 21. Sequenced strain: NCIMB 11132 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2403

Methylococcus mobilis ^{VP} Hazeu et al. 1980. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMD 77.28. N4Lid DOI: 10.1601/nm.2407

Methylococcus thermophilus ^{AL} Malashenko et al. 1975. Source of type material recommended for DOE sponsored genome sequencing by the JGI: IMV-2Yu. High-quality 16S rRNA sequence S000008528 (RDP), X73819 (Genbank). N4Lid DOI: 10.1601/nm.2408

Genus *Methylobacter* ^{VP} Bowman et al. 1993. N4Lid DOI: 10.1601/nm.2411

Methylobacter luteus ^{VP} (Romanovskaya et al. 1981) Bowman et al. 1993. <== *Methylococcus luteus* (basonym). Synonym links through N4Lid: 10.1601/ex.2406. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49878. High-quality 16S rRNA sequence S000436935 (RDP), M95657 (Genbank). N4Lid DOI: 10.1601/nm.2412

† *Methylococcus luteus* ^{VP} Romanovskaya et al. 1981. ==> *Methylobacter luteus* (new combination). Synonym links through N4Lid: 10.1601/ex.2406. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49878. High-quality 16S rRNA sequence S000436935 (RDP), M95657 (Genbank). N4Lid DOI: 10.1601/nm.2406

† *Methylococcus bovis* ^{VP} Romanovskaya et al. 1981. ≈ *Methylobacter luteus* (earlier heterotypic synonym), links through 10.1601/nm.2412. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CM of Whittenbury. N4Lid DOI: 10.1601/nm.2404

Methylobacter marinus ^{VP} Bowman et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ACM 4717. High-quality 16S rRNA sequence S000003677 (RDP), AF304197 (Genbank). N4Lid DOI: 10.1601/nm.2415

Methylobacter psychrophilus^{VP} Omel'chenko et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: VKM B-2103. High-quality 16S rRNA sequence S000388249 (RDP), AF152597 (Genbank). N4Lid DOI: 10.1601/nm.2417

Methylobacter tundripaludum^{VP} Wartainen et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1195. High-quality 16S rRNA sequence S000130842 (RDP), AJ414655 (Genbank). N4Lid 10.1601/nm.9843

Methylobacter whittenburyi^{VP} (Romanovskaya et al. 1981) Bowman et al. 1993. <== *Methylococcus whittenburyi* (basonym). Synonym links through N4Lid: 10.1601/ex.2410. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51738. High-quality 16S rRNA sequence S000002004 (RDP), X72773 (Genbank). N4Lid DOI: 10.1601/nm.2418

† *Methylococcus whittenburyi*^{VP} Romanovskaya et al. 1981. ==> *Methylobacter whittenburyi* (new combination). Synonym links through N4Lid: 10.1601/ex.2410. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51738. High-quality 16S rRNA sequence S000002004 (RDP), X72773 (Genbank). N4Lid DOI: 10.1601/nm.2410

† *Methylococcus vinelandii*^{VP} Romanovskaya et al. 1981. ≈ *Methylobacter whittenburyi* (earlier heterotypic synonym), links through 10.1601/nm.2418. Source of type material recommended for DOE sponsored genome sequencing by the JGI: Mexica of Whittenbury. N4Lid DOI: 10.1601/nm.2409

† *Methylococcus chroococcus*^{VP} Romanovskaya et al. 1981. ≈ *Methylobacter whittenburyi* (earlier heterotypic synonym), links through 10.1601/nm.2418. Source of type material recommended for DOE sponsored genome sequencing by the JGI: 9 of Whittenbury. N4Lid DOI: 10.1601/nm.2405

Genus *Methylocaldum*^{VP} Bodrossy et al. 1998. N4Lid DOI: 10.1601/nm.2419

Methylocaldum szegediense^{VP} Bodrossy et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: OR2. High-quality 16S rRNA sequence S000438739 (RDP), U89300 (Genbank). N4Lid DOI: 10.1601/nm.2420

Methylocaldum gracile^{VP} (ex Romanovskaya et al. 1978) Bodrossy et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCIMB 11912. High-quality 16S rRNA sequence S000438737 (RDP), U89298 (Genbank). N4Lid DOI: 10.1601/nm.2421

Methylocaldum tepidum^{VP} Bodrossy et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LK6. High-quality 16S rRNA sequence S000438736 (RDP), U89297 (Genbank). N4Lid DOI: 10.1601/nm.2422

Genus *Methylohalobius*^{VP} Heyer et al. 2005. N4Lid 10.1601/nm.9614

Methylohalobius crimeensis^{VP} Heyer et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-967. High-quality 16S rRNA sequence S000570262 (RDP), AJ581837 (Genbank). N4Lid 10.1601/nm.9613

Genus *Methylomicrobium*^{VP} Bowman et al. 1995. N4Lid DOI: 10.1601/nm.2423

Methylomicrobium agile^{VP} (Bowman et al. 1993) Bowman et al. 1995. <== *Methylobacter agilis* (basonym). Synonym links through N4Lid: 10.1601/ex.2413. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35068. High-quality 16S rRNA sequence S000015721 (RDP), X72767 (Genbank). N4Lid DOI: 10.1601/nm.2424

† *Methylobacter agilis*^{VP} (ex Whittenbury et al. 1970) Bowman et al. 1993. ==> *Methylomicrobium agile* (new combination). Synonym links through N4Lid: 10.1601/ex.2413. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35068. High-quality 16S rRNA sequence S000015721 (RDP), X72767 (Genbank). N4Lid DOI: 10.1601/nm.2413

Methylomicrobium album^{VP} (Bowman et al. 1993) Bowman et al. 1995. <== *Methylobacter albus* (basonym). Synonym links through N4Lid: 10.1601/ex.2414. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33003. High-quality 16S rRNA sequence S000014649 (RDP), X72777 (Genbank). N4Lid DOI: 10.1601/nm.2425

† *Methylobacter albus*^{VP} (ex Whittenbury 1970) Bowman et al. 1993. ==> *Methylomicrobium album* (new combination). Synonym links through N4Lid: 10.1601/ex.2414. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33003. High-

quality 16S rRNA sequence S000014649 (RDP), X72777 (Genbank). N4Lid DOI: 10.1601/nm.2414

Methylomicrobium buryatense^{VP} Kaluzhnaya et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: VKM B-2245. High-quality 16S rRNA sequence S000391032 (RDP), AF307138 (Genbank). N4Lid DOI: 10.1601/nm.2426

Methylomicrobium pelagicum^{VP} (Sieburth et al. 1988) Bowman et al. 1995. <== *Methylomonas pelagica* (basonym). Synonym links through N4Lid: 10.1601/ex.2432. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCIMB 2265. N4Lid DOI: 10.1601/nm.2427

† *Methylobacter pelagicus*^{VP} (Sieburth et al. 1988) Bowman et al. 1993. <== *Methylomonas pelagica* (basonym). *Methylomicrobium pelagicum* (new combination). Synonym links through N4Lid: 10.1601/ex.2432. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCIMB 2265. N4Lid DOI: 10.1601/nm.2416

† *Methylomonas pelagica*^{VP} Sieburth et al. 1988. ==> *Methylobacter pelagicus* (new combination). Synonym links through N4Lid: 10.1601/ex.2432. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCIMB 2265. N4Lid DOI: 10.1601/nm.2432

Genus *Methylomonas*^{VP} (ex Leadbetter 1974) Whittenbury and Krieg 1984. N4Lid DOI: 10.1601/nm.2428

Methylomonas methanica^{VP} (ex Söhngen 1906) Whittenbury and Krieg 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35067. N4Lid DOI: 10.1601/nm.2429

Methylomonas aurantiaca^{VP} Bowman et al. 1990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: UQM 3406. High-quality 16S rRNA sequence S000012740 (RDP), X72776 (Genbank). N4Lid DOI: 10.1601/nm.2430

Methylomonas fodinarum^{VP} Bowman et al. 1990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: UQM 3268. High-quality 16S rRNA sequence S000013454 (RDP), X72778 (Genbank). N4Lid DOI: 10.1601/nm.2431

Methylomonas scandinavica^{VP} Kalyuzhnaya et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: SR5. High-quality 16S rRNA sequence S000005200 (RDP), AJ131369 (Genbank). N4Lid DOI: 10.1601/nm.2433

Genus *Methylosarcina*^{VP} Wise et al. 2001. N4Lid DOI: 10.1601/nm.2434

Methylosarcina fibrata^{VP} Wise et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700909. High-quality 16S rRNA sequence S000388672 (RDP), AF177296 (Genbank). N4Lid DOI: 10.1601/nm.2435

Methylosarcina quisquiliarum^{VP} Wise et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700908. High-quality 16S rRNA sequence S000388673 (RDP), AF177297 (Genbank). N4Lid DOI: 10.1601/nm.2436

Methylosarcina lacus^{VP} Kalyuzhnaya et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1047. High-quality 16S rRNA sequence S000434353 (RDP), AY007296 (Genbank). N4Lid 10.1601/nm.9727

Genus *Methylosphaera*^{VP} Bowman et al. 1998. N4Lid DOI: 10.1601/nm.2437

Methylosphaera hansonii^{VP} Bowman et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ACAM 549. High-quality 16S rRNA sequence S000438226 (RDP), U67929 (Genbank). N4Lid DOI: 10.1601/nm.2438

Order *Oceanospirillales*^{VP} Garrity et al 2005. N4Lid DOI: 10.1601/nm.2439

Family *Oceanospirillaceae*^{VP} Garrity et al 2005. N4Lid DOI: 10.1601/nm.2440

Genus *Oceanospirillum*^{AL} Hylemon et al. 1973. GOLD ID: Gi00866. GCAT ID: 001280_GCAT. Entrez genome id: 13561. Sequenced strain: MED92 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2441

Oceanospirillum linum^{AL} (Williams and Rittenberg 1957) Hylemon et al. 1973. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11336. N4Lid DOI: 10.1601/nm.2442

Oceanospirillum beijerinckii subsp. beijerinckii^{VP} (Williams and Rittenberg 1957) Hylemon et al. 1973. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 12754. N4Lid DOI: 10.1601/nm.2443

Oceanospirillum beijerinckii subsp. pelagicum^{VP} (Terasaki 1973) Pot et al. 1989. <== *Oceanospirillum pelagicum* (basonym). Synonym links through N4Lid: 10.1601/ex.2455. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33337. N4Lid DOI: 10.1601/nm.2444

† *Oceanospirillum pelagicum*^{AL} (Terasaki 1973) Terasaki 1979. ==> *Oceanospirillum beijerinckii subsp. pelagicum* (new combination). Synonym links through N4Lid: 10.1601/ex.2455. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33337. N4Lid DOI: 10.1601/nm.2455

Oceanospirillum maris subsp. maris^{VP} Hylemon et al. 1973. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27509. High-quality 16S rRNA sequence S000427374 (RDP), AB006771 (Genbank). N4Lid DOI: 10.1601/nm.2450

† *Oceanospirillum hiroshimense*^{AL} (Terasaki 1973) Terasaki 1979. ==> *Oceanospirillum maris subsp. hiroshimense* (new combination). Synonym links through N4Lid: 10.1601/ex.2446. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 9524. N4Lid DOI: 10.1601/nm.2446

Oceanospirillum maris subsp. hiroshimense^{VP} (Terasaki 1973) Pot et al. 1989. <== *Oceanospirillum hiroshimense* (basonym). Synonym links through N4Lid: 10.1601/ex.2446. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 9524. N4Lid DOI: 10.1601/nm.2451

Oceanospirillum maris subsp. williamsae^{VP} Linn and Krieg 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29547. N4Lid DOI: 10.1601/nm.2452

Oceanospirillum multiglobuliferum^{AL} (Terasaki 1973) Terasaki 1979. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33336. High-quality 16S rRNA sequence S000427367 (RDP), AB006764 (Genbank). N4Lid DOI: 10.1601/nm.2454

Genus *Balneatrix*^{VP} Dauga et al. 1993. N4Lid DOI: 10.1601/nm.2458

Balneatrix alpica^{VP} Dauga et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51285. High-quality 16S rRNA sequence S000006569 (RDP), Y17112 (Genbank). N4Lid DOI: 10.1601/nm.2459

Genus *Marinomonas*^{VP} van Landschoot and De Ley 1984. GOLD ID: Gi00852. GCAT ID: 001206_GCAT. Entrez genome id: 13587. Sequenced strain: MED121 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 2 (GOLD) 2 (NCBI). N4Lid DOI: 10.1601/nm.2460

Marinomonas aquimarina^{VP} corrig. Macián et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 49439. High-quality 16S rRNA sequence S000539650 (RDP), AJ843077 (Genbank). N4Lid 10.1601/nm.9399

Marinomonas communis^{VP} (Baumann et al. 1972) van Landschoot and De Ley 1984. <== *Alteromonas communis* (basonym). Synonym links through N4Lid: 10.1601/ex.2813. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27118. N4Lid DOI: 10.1601/nm.2461

† *Oceanospirillum commune*^{VP} (Baumann et al. 1972) Bowditch et al. 1984. == *Alteromonas communis* (earlier homotypic synonym), links through 10.1601/ex.2813. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27118. N4Lid DOI: 10.1601/nm.2445

† *Alteromonas communis*^{AL} Baumann et al. 1972. ==> *Marinomonas communis* (new combination). Synonym links through N4Lid: 10.1601/ex.2813. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27118. N4Lid DOI: 10.1601/nm.2813

Marinomonas dokdonensis^{VP} Yoon et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17202. High-quality 16S rRNA sequence S000541573 (RDP), DQ011528 (Genbank). N4Lid 10.1601/nm.9723

Marinomonas mediterranea^{VP} Solano and Sanchez-Amat 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700492. High-quality 16S rRNA sequence S000428268 (RDP), AF063027 (Genbank). N4Lid DOI: 10.1601/nm.2462

Marinomonas polaris^{VP} Gupta et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16579. High-quality 16S rRNA sequence S000417331 (RDP), AJ833000 (Genbank). N4Lid 10.1601/nm.9891

Marinomonas pontica^{VP} Ivanova et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22531. N4Lid 10.1601/nm.8691

Marinomonas primoryensis^{VP} Romanenko et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 11775. High-quality 16S rRNA sequence S000133895 (RDP), AB074193 (Genbank). N4Lid DOI: 10.1601/nm.2463

Marinomonas ushuaiensis^{VP} Prabakaran et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15871. High-quality 16S rRNA sequence S000471713 (RDP), AJ627909 (Genbank). N4Lid 10.1601/nm.8692

Marinomonas vaga^{VP} (Baumann et al. 1972) van Landschoot and De Ley 1984. <== *Alteromonas vaga* (basonym). Synonym links through N4Lid: 10.1601/ex.2828. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27119. High-quality 16S rRNA sequence S000129426 (RDP), X67025 (Genbank). N4Lid DOI: 10.1601/nm.2464

† *Oceanospirillum vagum*^{VP} (Baumann et al. 1972) Bowditch et al. 1984. == *Alteromonas vaga* (earlier homotypic synonym), links through 10.1601/ex.2828. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27119. High-quality 16S rRNA sequence S000129426 (RDP), X67025 (Genbank). N4Lid DOI: 10.1601/nm.2457

† *Alteromonas vaga*^{AL} Baumann et al. 1972. ==> *Marinomonas vaga* (new combination). Synonym links through N4Lid: 10.1601/ex.2828. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27119. High-quality 16S rRNA sequence S000129426 (RDP), X67025 (Genbank). N4Lid DOI: 10.1601/nm.2828

Genus *Marinospirillum*^{VP} Satomi et al. 1998. N4Lid DOI: 10.1601/nm.2465

Marinospirillum minutulum^{VP} (Watanabe 1959) Satomi et al. 1998. <== *Oceanospirillum minutulum* (basonym). Synonym links through N4Lid: 10.1601/ex.2453. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19193. High-quality 16S rRNA sequence S000427372 (RDP), AB006769 (Genbank). N4Lid DOI: 10.1601/nm.2466

† *Oceanospirillum minutulum*^{AL} (Watanabe 1959) Hylemon et al. 1973. ==> *Marinospirillum minutulum* (new combination). Synonym links through N4Lid: 10.1601/ex.2453. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19193. High-quality 16S rRNA sequence S000427372 (RDP), AB006769 (Genbank). N4Lid DOI: 10.1601/nm.2453

Marinospirillum alkaliphilum^{VP} Zhang et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 11312. High-quality 16S rRNA sequence S000022912 (RDP), AF275713 (Genbank). N4Lid DOI: 10.1601/nm.2467

Marinospirillum insulare^{VP} Satomi et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NBRC 100033. High-quality 16S rRNA sequence S000385739 (RDP), AB098510 (Genbank). N4Lid DOI: 10.1601/nm.2468

Marinospirillum megaterium^{VP} Satomi et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 106459. N4Lid DOI: 10.1601/nm.2469

Genus *Nitrincola*^{VP} Dimitriu et al. 2005. N4Lid 10.1601/nm.9719

Nitrincola lacisaponensis^{VP} Dimitriu et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-920. High-quality 16S rRNA sequence S000360754 (RDP), AY567473 (Genbank). N4Lid 10.1601/nm.9718

Genus *Neptunomonas*^{VP} Hedlund et al. 1999. N4Lid DOI: 10.1601/nm.2470

Neptunomonas naphthovorans^{VP} Hedlund et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700637. High-quality 16S rRNA sequence S000428104 (RDP), AF053734 (Genbank). N4Lid DOI: 10.1601/nm.2471

Genus *Oceanobacter*^{VP} Satomi et al. 2002. GOLD ID: Gi00865. GCAT ID: 001279_GCAT. Entrez genome id: 13562. Sequenced strain: RED65 is from a non-type strain. Genome sequencing is

incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2472

Oceanobacter kriegii^{VP} (Bowditch et al. 1984) Satomi et al. 2002. <== *Oceanospirillum kriegii* (basonym). Synonym links through N4Lid: 10.1601/ex.2449. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27133. High-quality 16S rRNA sequence S000427370 (RDP), AB006767 (Genbank). N4Lid DOI: 10.1601/nm.2473

† *Oceanospirillum kriegii*^{VP} Bowditch et al. 1984. ==> *Oceanobacter kriegii* (new combination). Synonym links through N4Lid: 10.1601/ex.2449. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27133. High-quality 16S rRNA sequence S000427370 (RDP), AB006767 (Genbank). N4Lid DOI: 10.1601/nm.2449

Genus *Oleispira*^{VP} Yakimov et al. 2003. N4Lid DOI: 10.1601/nm.2474

Oleispira antarctica^{VP} Yakimov et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14852. High-quality 16S rRNA sequence S000126568 (RDP), AJ426420 (Genbank). N4Lid DOI: 10.1601/nm.2475

Genus *Pseudospirillum*^{VP} Satomi et al. 2002. N4Lid DOI: 10.1601/nm.2476

Pseudospirillum japonicum^{VP} (Watanabe 1959) Satomi et al. 2002. <== *Oceanospirillum japonicum* (basonym). Synonym links through N4Lid: 10.1601/ex.2448. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19191. High-quality 16S rRNA sequence S000427369 (RDP), AB006766 (Genbank). N4Lid DOI: 10.1601/nm.2477

† *Oceanospirillum japonicum*^{AL} (Watanabe 1959) Hylemon et al. 1973. ==> *Pseudospirillum japonicum* (new combination). Synonym links through N4Lid: 10.1601/ex.2448. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19191. High-quality 16S rRNA sequence S000427369 (RDP), AB006766 (Genbank). N4Lid DOI: 10.1601/nm.2448

Genus *Reinekea*^{VP} Romanenko et al. 2004. GOLD ID: Gi00879. GCAT ID: 001401_GCAT. Entrez genome id: 13534. Sequenced strain: MED297 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid 10.1601/nm.8808

Reinekea marinisedimentorum^{VP} Romanenko et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15388. High-quality 16S rRNA sequence S000352286 (RDP), AJ561121 (Genbank). N4Lid 10.1601/nm.8809

Genus *Thalassolituus*^{VP} Yakimov et al. 2004. N4Lid DOI: 10.1601/nm.2478

Thalassolituus oleivorans^{VP} Yakimov et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14913. High-quality 16S rRNA sequence S000264684 (RDP), AJ431699 (Genbank). N4Lid DOI: 10.1601/nm.2479

Family *Alcanivoracaceae*^{VP} corrig. Golyshin et al. 2005. N4Lid DOI: 10.1601/nm.2480

Genus *Alcanivorax*^{VP} Yakimov et al. 1998. ≈ *Alcanivorax* (later heterotypic synonym), links through 10.1601/nm.2481. GOLD ID: Gi01400. GCAT ID: 000853_GCAT. Sequenced strain: DG881 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.2481

Alcanivorax borkumensis^{VP} Yakimov et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700651. High-quality 16S rRNA sequence S000018396 (RDP), Y12579 (Genbank). GOLD ID: Gc00411. GCAT ID: 000199_GCAT. Entrez genome id: 13005. Sequenced strain: SK2 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2482

Alcanivorax dieselolei^{VP} Liu and Shao 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16502. High-quality 16S rRNA sequence S000541018 (RDP), AY683537 (Genbank). N4Lid 10.1601/nm.9440

Alcanivorax jadensis^{VP} (Bruns and Berthe-Corti 1999) Fernández-Martínez et al. 2003. <== *Fundibacter jadensis* (basonym). Synonym links through N4Lid: 10.1601/ex.2486. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700854. High-quality 16S rRNA sequence S000130881 (RDP), AJ001150 (Genbank). N4Lid DOI: 10.1601/nm.2483

† *Fundibacter jadensis*^{VP} Bruns and Berthe-Corti 1999. ==> *Alcanivorax jadensis* (new combination). Synonym links through N4Lid: 10.1601/ex.2486. Source of type material

recommended for DOE sponsored genome sequencing by the JGI: ATCC 700854. N4Lid DOI: 10.1601/nm.2486

Alcanivorax venustensis^{VP} Fernández-Martínez et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13974. High-quality 16S rRNA sequence S000391690 (RDP), AF328762 (Genbank). N4Lid DOI: 10.1601/nm.2484

Genus † *Fundibacter*^{VP} Bruns and Berthe-Corti 1999. ≈ *Alcanivorax* (earlier heterotypic synonym), links through 10.1601./nm.2481. N4Lid DOI: 10.1601/nm.2485

Genus *Kangiella*^{VP} Yoon et al. 2004. N4Lid 10.1601/nm.8635

Kangiella koreensis^{VP} Yoon et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16069. High-quality 16S rRNA sequence S000420409 (RDP), AY520560 (Genbank). N4Lid 10.1601/nm.8637

Kangiella aquimarina^{VP} Yoon et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16071. High-quality 16S rRNA sequence S000420410 (RDP), AY520561 (Genbank). N4Lid 10.1601/nm.8636

Family *Hahellaceae*^{VP} Garrity et al 2005. N4Lid DOI: 10.1601/nm.2487

Genus *Hahella*^{VP} Lee et al. 2001. N4Lid DOI: 10.1601/nm.2488

Hahella chejuensis^{VP} Lee et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: KCTC 2396. High-quality 16S rRNA sequence S000388921 (RDP), AF195410 (Genbank). GOLD ID: Gc00332. GCAT ID: 000278_GCAT. Entrez genome id: 16064. Sequenced strain: KCTC 2396 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2489

Hahella ganghwensis^{VP} Baik et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12486. High-quality 16S rRNA sequence S000422111 (RDP), AY676463 (Genbank). N4Lid 10.1601/nm.9356

Genus *Halospina*^{VP} Sorokin et al. 2006. N4Lid 10.1601/nm.9895

Halospina denitrificans^{VP} Sorokin et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15505. High-quality 16S rRNA sequence S000557097 (RDP), DQ072719 (Genbank). N4Lid 10.1601/nm.9894

Genus *Zooshikella*^{VP} Yi et al. 2003. N4Lid DOI: 10.1601/nm.2490

Zooshikella ganghwensis^{VP} Yi et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15267. High-quality 16S rRNA sequence S000396738 (RDP), AY130994 (Genbank). N4Lid DOI: 10.1601/nm.2491

Family *Halomonadaceae*^{VP} Franzmann et al 1989. N4Lid DOI: 10.1601/nm.2492

Genus *Halomonas*^{VP} Vreeland et al. 1980. ≈ *Halomonas* (later heterotypic synonym), links through 10.1601./nm.2493. N4Lid DOI: 10.1601/nm.2493

Halomonas elongata^{VP} Vreeland et al. 1980. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33173. High-quality 16S rRNA sequence S000131277 (RDP), X67023 (Genbank). GOLD ID: Gi00713. GCAT ID: 001787_GCAT. Genome sequence is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.2494

Halomonas alimentaria^{VP} Yoon et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15356. High-quality 16S rRNA sequence S000389208 (RDP), AF211860 (Genbank). N4Lid DOI: 10.1601/nm.2495

Halomonas almeriensis^{VP} Martínez-Checa et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22904. High-quality 16S rRNA sequence S000468797 (RDP), AY858696 (Genbank). N4Lid 10.1601/nm.9629

Halomonas anticariensis^{VP} Martínez-Cánovas et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22089. High-quality 16S rRNA sequence S000369150 (RDP), AY489405 (Genbank). N4Lid 10.1601/nm.8604

Halomonas aquamarina^{VP} (ZoBell and Upham 1944) Dobson and Franzmann 1996. <=== *Alcaligenes aquamarinus* (basonym). Synonym links through N4Lid: 10.1601/ex.1724. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14400. N4Lid DOI: 10.1601/nm.2496

- † *Deleya aquamarina*^{VP} (ZoBell and Upham 1944) Akagawa and Yamasato 1989. <== *Alcaligenes aquamarinus* (basonym). *Halomonas aquamarina* (new combination). Synonym links through N4Lid: 10.1601/ex.1724. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14400. N4Lid DOI: 10.1601/nm.2535
- † *Deleya aesta*^{VP} (Baumann et al. 1972) Baumann et al. 1983. <== *Deleya aquamarina* (synonym), *Alcaligenes aestus* (basonym). Synonym links through N4Lid: 10.1601/ex.1723. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27128. N4Lid DOI: 10.1601/nm.2534
- † *Alcaligenes aestus*^{AL} Baumann et al. 1972. ==> *Deleya aesta* (new combination). Synonym links through N4Lid: 10.1601/ex.1723. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27128. N4Lid DOI: 10.1601/nm.1723
- † *Alcaligenes faecalis* subsp. *homari*^{VP} Austin et al. 1981. ≈ *Halomonas aquamarina* (earlier heterotypic synonym), links through 10.1601/nm.2496. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33127. N4Lid DOI: 10.1601/nm.1729
- † *Alcaligenes aquamarinus*^{AL} (ZoBell and Upham 1944) Hendrie et al. 1974. ==> *Deleya aquamarina* (new combination). Synonym links through N4Lid: 10.1601/ex.1724. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14400. N4Lid DOI: 10.1601/nm.1724
- Halomonas axialensis*^{VP} Kaye et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-802. High-quality 16S rRNA sequence S000365816 (RDP), AF212206 (Genbank). N4Lid DOI: 10.1601/nm.2497
- Halomonas boliviensis*^{VP} Quillaguamán et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-759. High-quality 16S rRNA sequence S000357046 (RDP), AY245449 (Genbank). N4Lid 10.1601/nm.8605
- Halomonas campaniensis*^{VP} Romano et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-966. High-quality 16S rRNA sequence S000428131 (RDP), AF054286 (Genbank). N4Lid 10.1601/nm.9684
- Halomonas campisalis*^{VP} Mormile et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700597. High-quality 16S rRNA sequence S000428131 (RDP), AF054286 (Genbank). N4Lid DOI: 10.1601/nm.2498
- Halomonas cupida*^{VP} (Baumann et al. 1972) Dobson and Franzmann 1996. <== *Alcaligenes cupidus* (basonym). Synonym links through N4Lid: 10.1601/ex.1725. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27124. N4Lid DOI: 10.1601/nm.2500
- † *Deleya cupida*^{VP} (Baumann et al. 1972) Baumann et al. 1983. <== *Alcaligenes cupidus* (basonym). *Halomonas cupida* (new combination). Synonym links through N4Lid: 10.1601/ex.1725. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27124. N4Lid DOI: 10.1601/nm.2536
- † *Alcaligenes cupidus*^{AL} Baumann et al. 1972. ==> *Deleya cupida* (new combination). Synonym links through N4Lid: 10.1601/ex.1725. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27124. N4Lid DOI: 10.1601/nm.1725
- Halomonas desiderata*^{VP} Berendes et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 9502. High-quality 16S rRNA sequence S000021340 (RDP), X92417 (Genbank). N4Lid DOI: 10.1601/nm.2501
- Halomonas eurihalina*^{VP} (Quesada et al. 1990) Mellado et al. 1995. <== *Volcaniella eurihalina* (basonym). Synonym links through N4Lid: 10.1601/ex.2502. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49336. High-quality 16S rRNA sequence S000012363 (RDP), X87218 (Genbank). N4Lid DOI: 10.1601/nm.2502
- † *Volcaniella eurihalina*^{VP} Quesada et al. 1990. ==> *Halomonas eurihalina* (new combination). Synonym links through N4Lid: 10.1601/ex.2502. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49336. High-quality 16S rRNA sequence S000012363 (RDP), X87218 (Genbank). N4Lid 10.1601/nm.9161
- Halomonas halmophila*^{VP} (Elazari-Volcani 1940) Franzmann et al. 1989. <== *Flavobacterium halmophilum* (basonym). Synonym links through N4Lid: 10.1601/ex.8091. Source of type material

recommended for DOE sponsored genome sequencing by the JGI: ATCC 19717. High-quality 16S rRNA sequence S000436516 (RDP), M59153 (Genbank). N4Lid DOI: 10.1601/nm.2503

† *Flavobacterium halmophilum*^{AL} corrig. Elazari-Volcani 1940. ==> *Halomonas halmophila* (new combination). Synonym links through N4Lid: 10.1601/ex.8091. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19717. High-quality 16S rRNA sequence S000436516 (RDP), M59153 (Genbank). N4Lid DOI: 10.1601/nm.8091

Halomonas halocynthiae^{VP} Romanenko et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14573. High-quality 16S rRNA sequence S000100234 (RDP), AJ417388 (Genbank). N4Lid DOI: 10.1601/nm.2504

Halomonas halodenitrificans^{VP} (Robinson and Gibbons 1952) Dobson and Franzmann 1996. <== *Paracoccus halodenitrificans* (basonym). Synonym links through N4Lid: 10.1601/ex.1101. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13511. High-quality 16S rRNA sequence S000414284 (RDP), L04942 (Genbank). N4Lid DOI: 10.1601/nm.2505

Halomonas halodurans^{VP} Hebert and Vreeland 1987. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29686. High-quality 16S rRNA sequence S000435992 (RDP), L42619 (Genbank). N4Lid DOI: 10.1601/nm.2506

† *Paracoccus halodenitrificans*^{AL} (Robinson and Gibbons 1952) Davis 1969. ==> *Halomonas halodenitrificans* (new combination). Synonym links through N4Lid: 10.1601/ex.1101. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13511. High-quality 16S rRNA sequence S000414284 (RDP), L04942 (Genbank). N4Lid DOI: 10.1601/nm.1101

Halomonas halophila^{VP} (Quesada et al. 1984) Dobson and Franzmann 1996. <== *Deleya halophila* (basonym). Synonym links through N4Lid: 10.1601/ex.2537. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49969. High-quality 16S rRNA sequence S000436905 (RDP), M93353 (Genbank). N4Lid DOI: 10.1601/nm.2507

† *Deleya halophila*^{VP} Quesada et al. 1984. ==> *Halomonas halophila* (new combination). Synonym links through N4Lid: 10.1601/ex.2537. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49969. High-quality 16S rRNA sequence S000436905 (RDP), M93353 (Genbank). N4Lid DOI: 10.1601/nm.2537

Halomonas hydrothermalis^{VP} Kaye et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-800. High-quality 16S rRNA sequence S000365818 (RDP), AF212218 (Genbank). N4Lid DOI: 10.1601/nm.2508

Halomonas koreensis^{VP} Lim et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12237. High-quality 16S rRNA sequence S000441237 (RDP), AY382579 (Genbank). N4Lid 10.1601/nm.8606

Halomonas magadiensis^{VP} corrig. Duckworth et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15367. N4Lid DOI: 10.1601/nm.2510

Halomonas marisflavi^{VP} corrig. Yoon et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15357. High-quality 16S rRNA sequence S000390103 (RDP), AF251143 (Genbank). N4Lid DOI: 10.1601/nm.2512

Halomonas maura^{VP} Bouchotroch et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700995. N4Lid DOI: 10.1601/nm.2513

Halomonas meridiana^{VP} James et al. 1990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49692. High-quality 16S rRNA sequence S000436908 (RDP), M93356 (Genbank). N4Lid DOI: 10.1601/nm.2514

Halomonas muralis^{VP} Heyrman et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14789. High-quality 16S rRNA sequence S000446652 (RDP), AJ320530 (Genbank). N4Lid DOI: 10.1601/nm.2515

Halomonas neptunia^{VP} Kaye et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-805. High-quality 16S rRNA sequence S000365814 (RDP), AF212202 (Genbank). N4Lid DOI: 10.1601/nm.2516

Halomonas organivorans^{VP} García et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCM 7142. High-quality 16S rRNA sequence S000416964 (RDP), AJ616910 (Genbank). N4Lid 10.1601/nm.8607

Halomonas pacifica^{VP} (Baumann et al. 1972) Dobson and Franzmann 1996. <== *Alcaligenes pacificus* (basonym). Synonym links through N4Lid: 10.1601/ex.1732. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27122. High-quality 16S rRNA sequence S000435989 (RDP), L42616 (Genbank). N4Lid DOI: 10.1601/nm.2517

† *Deleya pacifica*^{VP} (Baumann et al. 1972) Baumann et al. 1983. <== *Alcaligenes pacificus* (basonym). *Halomonas pacifica* (new combination). Synonym links through N4Lid: 10.1601/ex.1732. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27122. High-quality 16S rRNA sequence S000435989 (RDP), L42616 (Genbank). N4Lid DOI: 10.1601/nm.2539

† *Alcaligenes pacificus*^{AL} corrig. Baumann et al. 1972. ==> *Deleya pacifica* (new combination). Synonym links through N4Lid: 10.1601/ex.1732. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27122. High-quality 16S rRNA sequence S000435989 (RDP), L42616 (Genbank). N4Lid DOI: 10.1601/nm.1732

Halomonas pantelleriensis^{VP} corrig. Romano et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700273. High-quality 16S rRNA sequence S000012727 (RDP), X93493 (Genbank). N4Lid DOI: 10.1601/nm.2518

Halomonas salina^{VP} (Valderrama et al. 1991) Dobson and Franzmann 1996. <== *Deleya salina* (basonym). Synonym links through N4Lid: 10.1601/ex.2540. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49509. High-quality 16S rRNA sequence S000020194 (RDP), X87217 (Genbank). N4Lid DOI: 10.1601/nm.2519

† *Deleya salina*^{VP} Valderrama et al. 1991. ==> *Halomonas salina* (new combination). Synonym links through N4Lid: 10.1601/ex.2540. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49509. High-quality 16S rRNA sequence S000020194 (RDP), X87217 (Genbank). N4Lid DOI: 10.1601/nm.2540

Halomonas subglaciescola^{VP} Franzmann et al. 1987. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43668. High-quality 16S rRNA sequence S000436910 (RDP), M93358 (Genbank). N4Lid DOI: 10.1601/nm.2520

Halomonas sulfidaeris^{VP} Kaye et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-803. High-quality 16S rRNA sequence S000365815 (RDP), AF212204 (Genbank). N4Lid DOI: 10.1601/nm.2521

Halomonas taeanensis^{VP} Lee et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16463. High-quality 16S rRNA sequence S000374556 (RDP), AY671975 (Genbank). N4Lid 10.1601/nm.9630

Halomonas variabilis^{VP} (Fendrich 1989) Dobson and Franzmann 1996. <== *Halovibrio variabilis* (basonym). Synonym links through N4Lid: 10.1601/ex.2522. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49240. High-quality 16S rRNA sequence S000436909 (RDP), M93357 (Genbank). N4Lid DOI: 10.1601/nm.2522

† *Halovibrio variabilis*^{VP} Fendrich 1989. ==> *Halomonas variabilis* (new combination). Synonym links through N4Lid: 10.1601/ex.2522. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49240. High-quality 16S rRNA sequence S000436909 (RDP), M93357 (Genbank). N4Lid 10.1601/nm.9158

Halomonas ventosae^{VP} Martínez-Cánovas et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15911. N4Lid 10.1601/nm.8608

Halomonas venusta^{VP} (Baumann et al. 1972) Dobson and Franzmann 1996. <== *Alcaligenes venustus* (basonym). Synonym links through N4Lid: 10.1601/ex.1736. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27125. N4Lid DOI: 10.1601/nm.2523

† *Deleya venusta*^{VP} (Baumann et al. 1972) Baumann et al. 1983. <== *Alcaligenes venustus* (basonym). *Halomonas venusta* (new combination). Synonym links through N4Lid: 10.1601/ex.1736. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27125. N4Lid DOI: 10.1601/nm.2541

† *Alcaligenes venustus*^{AL} Baumann et al. 1972. ==> *Deleya venusta* (new combination). Synonym links through N4Lid: 10.1601/ex.1736. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27125. N4Lid DOI: 10.1601/nm.1736

- Genus** † *Deleya*^{VP} Baumann et al. 1983. ≈ *Halomonas* (earlier heterotypic synonym), links through 10.1601/nm.2493. N4Lid DOI: 10.1601/nm.2533
- Genus** † *Halovibrio*^{VP} Fendrich 1989. ≈ *Halomonas* (earlier heterotypic synonym), links through 10.1601/nm.2493. N4Lid 10.1601/nm.9786
- Halovibrio denitrificans*^{VP} Sorokin et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15503. High-quality 16S rRNA sequence S000557096 (RDP), DQ072718 (Genbank). N4Lid 10.1601/nm.9893
- Genus** *Carnimonas*^{VP} Garriga et al. 1998. N4Lid DOI: 10.1601/nm.2524
- Carnimonas nigrificans*^{VP} Garriga et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-78. High-quality 16S rRNA sequence S000000222 (RDP), Y13299 (Genbank). N4Lid DOI: 10.1601/nm.2525
- Genus** *Chromohalobacter*^{VP} Ventosa et al. 1989. N4Lid DOI: 10.1601/nm.2526
- Chromohalobacter marismortui*^{VP} (ex Elazari-Volcani 1940) Ventosa et al. 1989. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17056. High-quality 16S rRNA sequence S000006585 (RDP), X87219 (Genbank). N4Lid DOI: 10.1601/nm.2527
- Chromohalobacter beijerinckii*^{VP} (Hof 1935) Peçonek et al. 2006. <== *Pseudomonas beijerinckii* (basonym). Synonym links through N4Lid: 10.1601/ex.2573. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19372. High-quality 16S rRNA sequence S000544794 (RDP), AM048787 (Genbank). N4Lid 10.1601/nm.9788
- † *Pseudomonas beijerinckii*^{AL} Hof 1935. ==> *Chromohalobacter beijerinckii* (new combination). Synonym links through N4Lid: 10.1601/ex.2573. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19372. High-quality 16S rRNA sequence S000544794 (RDP), AM048787 (Genbank). N4Lid DOI: 10.1601/nm.2573
- Chromohalobacter canadensis*^{VP} (Huval et al. 1996) Arahal et al. 2001. <== *Halomonas canadensis* (basonym). Synonym links through N4Lid: 10.1601/ex.2499. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43984. High-quality 16S rRNA sequence S000128813 (RDP), AJ295143 (Genbank). N4Lid DOI: 10.1601/nm.2528
- † *Halomonas canadensis*^{VP} Huval et al. 1996. ==> *Chromohalobacter canadensis* (new combination). Synonym links through N4Lid: 10.1601/ex.2499. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43984. High-quality 16S rRNA sequence S000128813 (RDP), AJ295143 (Genbank). N4Lid DOI: 10.1601/nm.2499
- Chromohalobacter israelensis*^{VP} (Huval et al. 1996) Arahal et al. 2001. <== *Halomonas israelensis* (basonym). Synonym links through N4Lid: 10.1601/ex.2509. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43985. High-quality 16S rRNA sequence S000129448 (RDP), AJ295144 (Genbank). N4Lid DOI: 10.1601/nm.2529
- † *Halomonas israelensis*^{VP} Huval et al. 1996. ==> *Chromohalobacter israelensis* (new combination). Synonym links through N4Lid: 10.1601/ex.2509. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43985. High-quality 16S rRNA sequence S000129448 (RDP), AJ295144 (Genbank). N4Lid DOI: 10.1601/nm.2509
- Chromohalobacter nigrandesensis*^{VP} Prado et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14323. High-quality 16S rRNA sequence S000607435 (RDP), AJ277205 (Genbank). N4Lid 10.1601/nm.9950
- Chromohalobacter salexigens*^{VP} Arahal et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-138. GOLD ID: Gc00371. GCAT ID: 000239_GCAT. Entrez genome id: 12636. Sequenced strain: DSM 3043 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 2 (NCBI). N4Lid DOI: 10.1601/nm.2530
- Chromohalobacter sarecensis*^{VP} Quillaguamán et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-761. High-quality 16S rRNA sequence S000461648 (RDP), AY373448 (Genbank). N4Lid 10.1601/nm.8944
- Genus** *Cobetia*^{VP} Arahal et al. 2002. N4Lid DOI: 10.1601/nm.2531
- Cobetia marina*^{VP} (Cobet et al. 1970) Arahal et al. 2002. <== *Pseudomonas marina* (basonym). Synonym links through N4Lid: 10.1601/ex.2639. Source of type material recommended for DOE

sponsored genome sequencing by the JGI: ATCC 25374. High-quality 16S rRNA sequence S000436906 (RDP), M93354 (Genbank). N4Lid DOI: 10.1601/nm.2532

Halomonas marina^{VP} (Cobet et al. 1970) Dobson and Franzmann 1996. <== *Pseudomonas marina* (basonym). *Cobetia marina* (new combination). Synonym links through N4Lid: 10.1601/ex.2639. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25374. High-quality 16S rRNA sequence S000436906 (RDP), M93354 (Genbank). N4Lid DOI: 10.1601/nm.2511

Deleya marina^{VP} (Cobet et al. 1970) Baumann et al. 1983. <== *Pseudomonas marina* (basonym). *Halomonas marina* (new combination). Synonym links through N4Lid: 10.1601/ex.2639. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25374. High-quality 16S rRNA sequence S000436906 (RDP), M93354 (Genbank). N4Lid DOI: 10.1601/nm.2538

† *Pseudomonas marina*^{AL} (Cobet et al. 1970) Baumann et al. 1972. ==> *Deleya marina* (new combination). Synonym links through N4Lid: 10.1601/ex.2639. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25374. High-quality 16S rRNA sequence S000436906 (RDP), M93354 (Genbank). N4Lid DOI: 10.1601/nm.2639

Genus *Salicola*^{VP} Maturrano et al. 2006. N4Lid DOI: 10.1601/nm.10169

Salicola marasensis^{VP} Maturrano et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108835. High-quality 16S rRNA sequence S000556588 (RDP), DQ019934 (Genbank). N4Lid DOI: 10.1601/nm.10168

Genus † *Volcaniella*^{VP} Quesada et al. 1990. ≈ *Halomonas* (earlier heterotypic synonym), links through 10.1601/nm.2493. N4Lid 10.1601/nm.9160

Genus *Zymobacter*^{VP} Okamoto et al. 1995. N4Lid DOI: 10.1601/nm.2542

Zymobacter palmae^{VP} Okamoto et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51623. High-quality 16S rRNA sequence S000004596 (RDP), D14555 (Genbank). N4Lid DOI: 10.1601/nm.2543

Family *Oleiphilaceae*^{VP} Golyshin et al 2002. N4Lid DOI: 10.1601/nm.2544

Genus *Oleiphilus*^{VP} Golyshin et al. 2002. N4Lid DOI: 10.1601/nm.2545

Oleiphilus messinensis^{VP} Golyshin et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-604. High-quality 16S rRNA sequence S000018028 (RDP), AJ295154 (Genbank). N4Lid DOI: 10.1601/nm.2546

Family "*Saccharospirillaceae*" N4Lid DOI: 10.1601/nm.2547

Genus *Saccharospirillum*^{VP} Labrenz et al. 2003. N4Lid DOI: 10.1601/nm.2548

Saccharospirillum impatiens^{VP} Labrenz et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 12546. High-quality 16S rRNA sequence S000131654 (RDP), AJ315983 (Genbank). N4Lid DOI: 10.1601/nm.2549

Order *Pseudomonadales*^{AL} Orla-Jensen 1921. N4Lid DOI: 10.1601/nm.2550

Family *Pseudomonadaceae*^{AL} Winslow et al 1917. N4Lid DOI: 10.1601/nm.2551

Genus *Pseudomonas*^{AL} Migula 1894. ≈ *Pseudomonas* (later heterotypic synonym), links through 10.1601/nm.2552. N4Lid DOI: 10.1601/nm.2552

Pseudomonas aeruginosa^{AL} (Schroeter 1872) Migula 1900. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 10145. High-quality 16S rRNA sequence S000010427 (RDP), X06684 (Genbank). GOLD ID: Gc00037. GCAT ID: 000573_GCAT. Entrez genome id: 331. Sequenced strain: ATCC 15692 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 10 (GOLD) 7 (NCBI). N4Lid DOI: 10.1601/nm.2553

Pseudomonas abietaniphila^{VP} Mohn et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700689. N4Lid DOI: 10.1601/nm.2554

Pseudomonas agarici^{AL} Young 1970. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25941. High-quality 16S rRNA sequence S000001173 (RDP), D84005 (Genbank). N4Lid DOI: 10.1601/nm.2556

Pseudomonas alcaligenes^{AL} Monias 1928. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14909. High-quality 16S rRNA sequence S000012757 (RDP), Z76653 (Genbank). N4Lid DOI: 10.1601/nm.2557

- Pseudomonas alcaliphila*^{VP} Yumoto et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-571. High-quality 16S rRNA sequence S000010130 (RDP), AB030583 (Genbank). N4Lid DOI: 10.1601/nm.2558
- Pseudomonas amygdali*^{AL} Psallidas and Panagopoulos 1975. ≈ *Pseudomonas ficuserectae* (later heterotypic synonym), links through 10.1601./nm.2560. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33614. High-quality 16S rRNA sequence S000005897 (RDP), D84007 (Genbank). N4Lid DOI: 10.1601/nm.2560
- † *Pseudomonas ficuserectae*^{VP} Goto 1983. ≈ *Pseudomonas amygdali* (earlier heterotypic synonym), links through 10.1601./nm.2560. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35104. High-quality 16S rRNA sequence S000002381 (RDP), Z76661 (Genbank). N4Lid DOI: 10.1601/nm.2602
- † *Pseudomonas meliae*^{VP} Ogimi 1981. ≈ *Pseudomonas amygdali* (earlier heterotypic synonym), links through 10.1601./nm.2560. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33050. N4Lid DOI: 10.1601/nm.2641
- Pseudomonas anguilliseptica*^{AL} Wakabayashi and Egusa 1972. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33660. High-quality 16S rRNA sequence S000260543 (RDP), X99540 (Genbank). N4Lid DOI: 10.1601/nm.2562
- Pseudomonas antarctica*^{VP} Reddy et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15318. High-quality 16S rRNA sequence S000366445 (RDP), AJ537601 (Genbank). N4Lid 10.1601/nm.8793
- Pseudomonas argentinensis*^{VP} Peix et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22563. High-quality 16S rRNA sequence S000541019 (RDP), AY691188 (Genbank). N4Lid 10.1601/nm.9433
- Pseudomonas asplenii*^{AL} (Ark and Tompkins 1946) Savulescu 1947. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23835. High-quality 16S rRNA sequence S000015006 (RDP), Z76655 (Genbank). N4Lid DOI: 10.1601/nm.2564
- Pseudomonas aurantiaca*^{AL} Nakhimovskaya 1948. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33663. N4Lid DOI: 10.1601/nm.2565
- Pseudomonas avellanae*^{VP} Janse et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700330. N4Lid DOI: 10.1601/nm.2567
- Pseudomonas azotifigens*^{VP} Hatayama et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1049. High-quality 16S rRNA sequence S000567747 (RDP), AB189452 (Genbank). N4Lid 10.1601/nm.9526
- Pseudomonas azotoformans*^{AL} Iizuka and Komagata 1963. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 106744. High-quality 16S rRNA sequence S000005898 (RDP), D84009 (Genbank). N4Lid DOI: 10.1601/nm.2571
- Pseudomonas balearica*^{VP} Bennisar et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 6083. High-quality 16S rRNA sequence S000437396 (RDP), U26418 (Genbank). N4Lid DOI: 10.1601/nm.2572
- Pseudomonas beteli*^{AL} corrig. (Ragunathan 1928) Savulescu 1947. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19861. N4Lid DOI: 10.1601/nm.2574
- Pseudomonas borbori*^{VP} Vanparys et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17834. High-quality 16S rRNA sequence S000608918 (RDP), AM114527 (Genbank). N4Lid DOI: 10.1601/nm.10245
- Pseudomonas boreopolis*^{AL} Gray and Thornton 1928. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33662. N4Lid DOI: 10.1601/nm.2575
- Pseudomonas brassicacearum*^{VP} Achouak et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13227. High-quality 16S rRNA sequence S000428886 (RDP), AF100321 (Genbank). N4Lid DOI: 10.1601/nm.2576
- Pseudomonas brenneri*^{VP} Băida et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15294. High-quality 16S rRNA sequence S000390413 (RDP), AF268968 (Genbank). N4Lid DOI: 10.1601/nm.2577
- Pseudomonas cannabina*^{VP} (ex Sutic and Dowson 1959) Gardan et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CFBP 2341. High-

quality 16S rRNA sequence S000145522 (RDP), AJ492827 (Genbank). N4Lid DOI: 10.1601/nm.2578

Pseudomonas carboxydohydrogena^{VP} (ex Sanjjeva and Zavarzin 1971) Meyer et al. 1980. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29978. High-quality 16S rRNA sequence S000006492 (RDP), AB021393 (Genbank). N4Lid DOI: 10.1601/nm.2579

Pseudomonas caricapapayae^{AL} Robbs 1956. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33615. High-quality 16S rRNA sequence S000004781 (RDP), D84010 (Genbank). N4Lid DOI: 10.1601/nm.2580

Pseudomonas cedrina^{VP} corrig. Dabboussi et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 105541. High-quality 16S rRNA sequence S000428332 (RDP), AF064461 (Genbank). N4Lid DOI: 10.1601/nm.2583

Pseudomonas chlororaphis^{AL} (Guignard and Sauvageau 1894) Bergey et al. 1930. ≈ *Pseudomonas aureofaciens* (later heterotypic synonym), links through 10.1601/nm.2586. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13985. High-quality 16S rRNA sequence S000428763 (RDP), AF094722 (Genbank). N4Lid DOI: 10.1601/nm.2586

† *Pseudomonas aureofaciens*^{AL} Kluver 1956. ≈ *Pseudomonas chlororaphis* (earlier heterotypic synonym), links through 10.1601/nm.2586. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13985. High-quality 16S rRNA sequence S000428763 (RDP), AF094722 (Genbank). N4Lid DOI: 10.1601/nm.2566

Pseudomonas cichorii^{AL} (Swingle 1925) Stapp 1928. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 10857. High-quality 16S rRNA sequence S000005892 (RDP), Z76658 (Genbank). N4Lid DOI: 10.1601/nm.2587

Pseudomonas cissicola^{AL} (Takimoto 1939) Burkholder 1948. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33616. High-quality 16S rRNA sequence S000001859 (RDP), AB021399 (Genbank). N4Lid DOI: 10.1601/nm.2588

Pseudomonas citronellois^{AL} Seubert 1960. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13674. High-quality 16S rRNA sequence S000006645 (RDP), Z76659 (Genbank). N4Lid DOI: 10.1601/nm.2589

Pseudomonas congelans^{VP} Behrendt et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14939. High-quality 16S rRNA sequence S000146512 (RDP), AJ492828 (Genbank). N4Lid DOI: 10.1601/nm.2591

Pseudomonas corrugata^{VP} Roberts and Scarlett 1981. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29736. High-quality 16S rRNA sequence S000010434 (RDP), D84012 (Genbank). N4Lid DOI: 10.1601/nm.2592

Pseudomonas constantinii^{VP} Munsch et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CFBP 5705. High-quality 16S rRNA sequence S000499371 (RDP), AF374472 (Genbank). N4Lid DOI: 10.1601/nm.2593

Pseudomonas cremoricolorata^{VP} Uchino et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: IFO 16634. N4Lid DOI: 10.1601/nm.2594

Pseudomonas extremorientalis^{VP} Ivanova et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 19695. High-quality 16S rRNA sequence S000499514 (RDP), AF405328 (Genbank). N4Lid DOI: 10.1601/nm.2600

Pseudomonas flavescens^{VP} Hildebrand et al. 1994. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51555. High-quality 16S rRNA sequence S000436974 (RDP), U01916 (Genbank). N4Lid DOI: 10.1601/nm.2604

Pseudomonas flectens^{AL} Johnson 1956. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 12775. High-quality 16S rRNA sequence S000012967 (RDP), AB021400 (Genbank). N4Lid DOI: 10.1601/nm.2605

Pseudomonas fluorescens^{AL} Migula 1895. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13525. High-quality 16S rRNA sequence S000022197 (RDP), Z76662 (Genbank). GOLD ID: Gc00269. GCAT ID: 000340_GCAT. Entrez genome id: 327. Sequenced strain: ATCC BAA-477 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 3 (GOLD) 3 (NCBI). N4Lid DOI: 10.1601/nm.2606

- Pseudomonas fragi*^{AL} (Eichholz 1902) Gruber 1905. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 4973. High-quality 16S rRNA sequence S000428774 (RDP), AF094733 (Genbank). N4Lid DOI: 10.1601/nm.2607
- Pseudomonas frederiksbergensis*^{VP} Andersen et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-257. High-quality 16S rRNA sequence S000013175 (RDP), AJ249382 (Genbank). N4Lid DOI: 10.1601/nm.2608
- Pseudomonas fulva*^{AL} Iizuka and Komagata 1963. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 31418. High-quality 16S rRNA sequence S000005899 (RDP), D84015 (Genbank). N4Lid DOI: 10.1601/nm.2609
- Pseudomonas fuscovaginae*^{VP} (ex Tanii et al. 1976) Miyajima et al. 1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 7231. N4Lid DOI: 10.1601/nm.2610
- Pseudomonas gelidicola*^{AL} Kadota 1951. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 106748. N4Lid DOI: 10.1601/nm.2611
- Pseudomonas geniculata*^{AL} (Wright 1895) Chester 1901. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19374. High-quality 16S rRNA sequence S000007629 (RDP), AB021404 (Genbank). N4Lid DOI: 10.1601/nm.2612
- Pseudomonas gessardii*^{VP} Verhille et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 105469. High-quality 16S rRNA sequence S000428466 (RDP), AF074384 (Genbank). N4Lid DOI: 10.1601/nm.2613
- Pseudomonas graminis*^{VP} Behrendt et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 11363. High-quality 16S rRNA sequence S000013965 (RDP), Y11150 (Genbank). N4Lid DOI: 10.1601/nm.2617
- Pseudomonas grimontii*^{VP} Baïda et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-140. High-quality 16S rRNA sequence S000390380 (RDP), AF268029 (Genbank). N4Lid DOI: 10.1601/nm.2618
- Pseudomonas halophila*^{VP} Fendrich 1989. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49241. High-quality 16S rRNA sequence S000001468 (RDP), AB021383 (Genbank). N4Lid DOI: 10.1601/nm.2619
- Pseudomonas hibiscicola*^{AL} Moniz 1963. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19867. High-quality 16S rRNA sequence S000010261 (RDP), AB021405 (Genbank). N4Lid DOI: 10.1601/nm.2620
- Pseudomonas indica*^{VP} Pandey et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14015. High-quality 16S rRNA sequence S000390990 (RDP), AF302795 (Genbank). N4Lid DOI: 10.1601/nm.2622
- Pseudomonas jessenii*^{VP} Verhille et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700870. High-quality 16S rRNA sequence S000428381 (RDP), AF068259 (Genbank). N4Lid DOI: 10.1601/nm.2625
- Pseudomonas jinjuensis*^{VP} Kwon et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 21316. High-quality 16S rRNA sequence S000395038 (RDP), AF468448 (Genbank). N4Lid DOI: 10.1601/nm.2626
- Pseudomonas kilonensis*^{VP} Sikorski et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13647. High-quality 16S rRNA sequence S000108891 (RDP), AJ292426 (Genbank). N4Lid DOI: 10.1601/nm.2627
- Pseudomonas koreensis*^{VP} Kwon et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 21318. High-quality 16S rRNA sequence S000395042 (RDP), AF468452 (Genbank). N4Lid DOI: 10.1601/nm.2628
- Pseudomonas libanensis*^{VP} Dabboussi et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 43190. High-quality 16S rRNA sequence S000428195 (RDP), AF057645 (Genbank). N4Lid DOI: 10.1601/nm.2631
- Pseudomonas lini*^{VP} Delorme et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CFBP 5737. High-quality 16S rRNA sequence S000434706 (RDP), AY035996 (Genbank). N4Lid DOI: 10.1601/nm.2632

- Pseudomonas lundensis*^{VP} Molin et al. 1986. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49968. High-quality 16S rRNA sequence S000014863 (RDP), AB021395 (Genbank). N4Lid DOI: 10.1601/nm.2633
- Pseudomonas lutea*^{VP} Peix et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 21974. High-quality 16S rRNA sequence S000358323 (RDP), AY364537 (Genbank). N4Lid 10.1601/nm.8794
- † *Chryseomonas polytricha*^{VP} Holmes et al. 1986. ≈ *Pseudomonas luteola* (earlier heterotypic synonym), links through 10.1601/nm.2634. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCTC 11843. N4Lid DOI: 10.1601/nm.2733
- Pseudomonas luteola*^{VP} Kodama et al. 1985. ==> *Chryseomonas luteola* (new combination). Synonym links through N4Lid: 10.1601/ex.2634. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43273. High-quality 16S rRNA sequence S000010364 (RDP), D84002 (Genbank). N4Lid DOI: 10.1601/nm.2634
- † *Chryseomonas luteola*^{VP} (Kodama et al. 1985) Holmes et al. 1987. <== *Pseudomonas luteola* (basonym). Synonym links through N4Lid: 10.1601/ex.2634. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43273. High-quality 16S rRNA sequence S000010364 (RDP), D84002 (Genbank). N4Lid DOI: 10.1601/nm.2734
- Pseudomonas mandelii*^{VP} Verhille et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700871. High-quality 16S rRNA sequence S000428211 (RDP), AF058286 (Genbank). N4Lid DOI: 10.1601/nm.2637
- Pseudomonas marginalis*^{AL} (Brown 1918) Stevens 1925. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 10844. High-quality 16S rRNA sequence S000011992 (RDP), Z76663 (Genbank). N4Lid DOI: 10.1601/nm.2638
- Pseudomonas mediterranea*^{VP} Catara et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CFBP 5447. High-quality 16S rRNA sequence S000392851 (RDP), AF386080 (Genbank). N4Lid DOI: 10.1601/nm.2640
- Pseudomonas mendocina*^{AL} Palleroni 1970. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25411. High-quality 16S rRNA sequence S000436517 (RDP), M59154 (Genbank). GOLD ID: Gi01348. GCAT ID: 001765_GCAT. Entrez genome id: 17457. Sequenced strain: ymp is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2642
- Pseudomonas mephitica*^{AL} Claydon and Hammer 1939. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33665. N4Lid DOI: 10.1601/nm.2643
- Pseudomonas meridiana*^{VP} Reddy et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15319. High-quality 16S rRNA sequence S000366446 (RDP), AJ537602 (Genbank). N4Lid 10.1601/nm.8795
- Pseudomonas migulae*^{VP} Verhille et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 43165. High-quality 16S rRNA sequence S000428465 (RDP), AF074383 (Genbank). N4Lid DOI: 10.1601/nm.2645
- Pseudomonas montelii*^{VP} Elomari et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700476. High-quality 16S rRNA sequence S000013341 (RDP), AF064458 (Genbank). N4Lid DOI: 10.1601/nm.2647
- Pseudomonas mosselii*^{VP} Dabboussi et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-99. High-quality 16S rRNA sequence S000428431 (RDP), AF072688 (Genbank). N4Lid DOI: 10.1601/nm.2648
- Pseudomonas mucidolens*^{AL} Levine and Anderson 1932. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 4685. N4Lid DOI: 10.1601/nm.2649
- Pseudomonas multiresinivorans*^{VP} Mohn et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700690. N4Lid DOI: 10.1601/nm.2650
- Pseudomonas nitroreducens*^{AL} Iizuka and Komagata 1964. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33634. High-quality 16S rRNA sequence S000626937 (RDP), AM088474 (Genbank). N4Lid DOI: 10.1601/nm.2652

- Pseudomonas oleovorans*^{AL} Lee and Chandler 1941. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 8062. High-quality 16S rRNA sequence S000005136 (RDP), Z76665 (Genbank). N4Lid DOI: 10.1601/nm.2653
- Pseudomonas orientalis*^{VP} Dabboussi et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 105540. High-quality 16S rRNA sequence S000428331 (RDP), AF064457 (Genbank). N4Lid DOI: 10.1601/nm.2654
- Pseudomonas oryzihabitans*^{VP} Kodama et al. 1985. ==> *Flavimonas oryzihabitans* (new combination). Synonym links through N4Lid: 10.1601/ex.2655. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43272. High-quality 16S rRNA sequence S000690545 (RDP), AM262973 (Genbank). N4Lid DOI: 10.1601/nm.2655
- † *Flavimonas oryzihabitans*^{VP} (Kodama et al. 1985) Holmes et al. 1987. <== *Pseudomonas oryzihabitans* (basonym). Synonym links through N4Lid: 10.1601/ex.2655. Source of type material recommended for DOE sponsored genome sequencing by the JGI: IAM 1568. High-quality 16S rRNA sequence S000004324 (RDP), D84004 (Genbank). N4Lid DOI: 10.1601/nm.2736
- Pseudomonas otitidis*^{VP} Clark et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1130. High-quality 16S rRNA sequence S000514601 (RDP), AY953147 (Genbank). N4Lid 10.1601/nm.9987
- Pseudomonas pachastrellae*^{VP} Romanenko et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 46540. High-quality 16S rRNA sequence S000495962 (RDP), AB125366 (Genbank). N4Lid 10.1601/nm.9370
- Pseudomonas palleroniana*^{VP} Gardan et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CFBP 4389. High-quality 16S rRNA sequence S000355056 (RDP), AY091527 (Genbank). N4Lid DOI: 10.1601/nm.2656
- Pseudomonas panacis*^{VP} Park et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108524. High-quality 16S rRNA sequence S000575187 (RDP), AY787208 (Genbank). N4Lid 10.1601/nm.9539
- Pseudomonas parafulva*^{VP} Uchino et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: IFO 16636. N4Lid DOI: 10.1601/nm.2658
- Pseudomonas peli*^{VP} Vanparys et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17833. High-quality 16S rRNA sequence S000608925 (RDP), AM114534 (Genbank). N4Lid DOI: 10.1601/nm.10244
- Pseudomonas pertucinogena*^{AL} Kawai and Yabuuchi 1975. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 190. N4Lid DOI: 10.1601/nm.2661
- Pseudomonas pictorum*^{AL} Gray and Thornton 1928. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23328. High-quality 16S rRNA sequence S000000936 (RDP), AB021392 (Genbank). N4Lid DOI: 10.1601/nm.2664
- Pseudomonas plecoglossicida*^{VP} Nishimori et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700383. High-quality 16S rRNA sequence S000006483 (RDP), AB009457 (Genbank). N4Lid DOI: 10.1601/nm.2666
- Pseudomonas poae*^{VP} Behrendt et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14936. High-quality 16S rRNA sequence S000145154 (RDP), AJ492829 (Genbank). N4Lid DOI: 10.1601/nm.2667
- Pseudomonas pohangensis*^{VP} Weon et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17875. High-quality 16S rRNA sequence S000639962 (RDP), DQ339144 (Genbank). N4Lid DOI: 10.1601/nm.10286
- Pseudomonas proteolytica*^{VP} Reddy et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15321. High-quality 16S rRNA sequence S000366447 (RDP), AJ537603 (Genbank). N4Lid 10.1601/nm.8796
- Pseudomonas pseudoalcaligenes* subsp. *pseudoalcaligenes*^{AL} Stanier 1966. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17440. High-quality 16S rRNA sequence S000004100 (RDP), Z76675 (Genbank). N4Lid DOI: 10.1601/nm.2668

- Pseudomonas psychrophila*^{VP} Yumoto et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 10889. High-quality 16S rRNA sequence S000002852 (RDP), AB041885 (Genbank). N4Lid DOI: 10.1601/nm.2673
- Pseudomonas psychrotolerans*^{VP} Hauser et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15758. High-quality 16S rRNA sequence S000416841 (RDP), AJ575816 (Genbank). N4Lid 10.1601/nm.8797
- Pseudomonas putida*^{AL} (Trevisan 1889) Migula 1895. ≈ *Arthrobacter siderocapsulatus* (later heterotypic synonym), links through 10.1601./nm.2674. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 12633. High-quality 16S rRNA sequence S000413774 (RDP), D37923 (Genbank). GOLD ID: Gc00111. GCAT ID: 000499_GCAT. Entrez genome id: 267. Sequenced strain: KT2440 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 5 (GOLD) 5 (NCBI). N4Lid DOI: 10.1601/nm.2674
- † *Arthrobacter siderocapsulatus*^{AL} Dubinina and Zhdanov 1975. ≈ *Pseudomonas putida* (earlier heterotypic synonym), links through 10.1601./nm.2674. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCIMB 11286. N4Lid DOI: 10.1601/nm.5873
- Pseudomonas resinovorans*^{AL} Delaporte et al. 1961. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14235. High-quality 16S rRNA sequence S000007012 (RDP), Z76668 (Genbank). N4Lid DOI: 10.1601/nm.2677
- Pseudomonas rhizosphaerae*^{VP} Peix et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 21640. High-quality 16S rRNA sequence S000398317 (RDP), AY152673 (Genbank). N4Lid DOI: 10.1601/nm.2678
- Pseudomonas rhodesiae*^{VP} Coroler et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700310. High-quality 16S rRNA sequence S000013342 (RDP), AF064459 (Genbank). N4Lid DOI: 10.1601/nm.2679
- Pseudomonas salomonii*^{VP} Gardan et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CFBP 2022. High-quality 16S rRNA sequence S000355057 (RDP), AY091528 (Genbank). N4Lid DOI: 10.1601/nm.2684
- Pseudomonas savastanoi*^{VP} (Janse 1982) Gardan et al. 1992. <== *Pseudomonas syringae subsp. savastanoi* (basonym). Synonym links through N4Lid: 10.1601/ex.2693. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13522. High-quality 16S rRNA sequence S000004193 (RDP), AB021402 (Genbank). N4Lid DOI: 10.1601/nm.2685
- † *Pseudomonas syringae subsp. savastanoi*^{VP} (ex Smith 1908) Janse 1982. ==> *Pseudomonas savastanoi* (new combination). Synonym links through N4Lid: 10.1601/ex.2693. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13522. High-quality 16S rRNA sequence S000004193 (RDP), AB021402 (Genbank). N4Lid DOI: 10.1601/nm.2693
- Pseudomonas straminea*^{AL} corrig. Iizuka and Komagata 1963. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33636. High-quality 16S rRNA sequence S000011995 (RDP), D84023 (Genbank). N4Lid DOI: 10.1601/nm.2689
- Pseudomonas stutzeri*^{AL} (Lehmann and Neumann 1896) Sijderius 1946. ≈ *Pseudomonas chloritidismutans* (later heterotypic synonym), links through 10.1601./nm.2690. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14405. High-quality 16S rRNA sequence S000437391 (RDP), U26262 (Genbank). GOLD ID: Gi01534. GCAT ID: 001393_GCAT. Entrez genome id: 16817. Sequenced strain: A1501 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2690
- † *Pseudomonas chloritidismutans*^{VP} Wolterink et al. 2002. ≈ *Pseudomonas stutzeri* (earlier heterotypic synonym), links through 10.1601./nm.2690. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-443. High-quality 16S rRNA sequence S000540395 (RDP), AY017341 (Genbank). N4Lid DOI: 10.1601/nm.2585
- † *Pseudomonas perfectomarina*^{VP} corrig. (ex ZoBell and Upham 1944) Baumann et al. 1983. ≈ *Pseudomonas stutzeri* (earlier heterotypic synonym), links through 10.1601./nm.2690. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14405. N4Lid DOI: 10.1601/nm.2660

Pseudomonas synxantha^{AL} (Ehrenberg 1840) Holland 1920. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 9890. N4Lid DOI: 10.1601/nm.2691

Pseudomonas syringae subsp. *syringae*^{VP} van Hall 1902. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19310. High-quality 16S rRNA sequence S000009688 (RDP), D84026 (Genbank). GOLD ID: Gc00264. GCAT ID: 000345_GCAT. Entrez genome id: 323. Sequenced strain: B728a is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 3 (NCBI). N4Lid DOI: 10.1601/nm.2692

Pseudomonas taetrolens^{AL} Haynes 1957. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 4683. High-quality 16S rRNA sequence S000008929 (RDP), D84027 (Genbank). N4Lid DOI: 10.1601/nm.2696

Pseudomonas thermotolerans^{VP} Manaia and Moore 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14292. High-quality 16S rRNA sequence S000131216 (RDP), AJ311980 (Genbank). N4Lid DOI: 10.1601/nm.2698

Pseudomonas thivervalensis^{VP} Achouak et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13194. High-quality 16S rRNA sequence S000428888 (RDP), AF100323 (Genbank). N4Lid DOI: 10.1601/nm.2699

Pseudomonas tolaasii^{AL} Paine 1919. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33618. High-quality 16S rRNA sequence S000011624 (RDP), D84028 (Genbank). N4Lid DOI: 10.1601/nm.2700

Pseudomonas tremae^{VP} Gardan et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CFBP 3229. High-quality 16S rRNA sequence S000146818 (RDP), AJ492826 (Genbank). N4Lid DOI: 10.1601/nm.2701

Pseudomonas trivialis^{VP} Behrendt et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14937. High-quality 16S rRNA sequence S000145156 (RDP), AJ492831 (Genbank). N4Lid DOI: 10.1601/nm.2702

Pseudomonas umsongensis^{VP} Kwon et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 21317. High-quality 16S rRNA sequence S000395040 (RDP), AF468450 (Genbank). N4Lid DOI: 10.1601/nm.2703

Pseudomonas vancouverensis^{VP} Mohn et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700688. N4Lid DOI: 10.1601/nm.2704

Pseudomonas veronii^{VP} Elomari et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700272. High-quality 16S rRNA sequence S000004663 (RDP), AF064460 (Genbank). N4Lid DOI: 10.1601/nm.2705

Pseudomonas viridiflava^{AL} (Burkholder 1930) Dowson 1939. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13223. High-quality 16S rRNA sequence S000013128 (RDP), Z76671 (Genbank). N4Lid DOI: 10.1601/nm.2707

Pseudomonas xanthomarina^{VP} Romanenko et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 46543. High-quality 16S rRNA sequence S000543032 (RDP), AB176954 (Genbank). N4Lid 10.1601/nm.9688

Genus † *Chryseomonas*^{VP} Holmes et al. 1986. ≈ *Pseudomonas* (earlier heterotypic synonym), links through 10.1601/nm.2552. N4Lid DOI: 10.1601/nm.2732

Genus † *Flavimonas*^{VP} Holmes et al. 1987. ≈ *Pseudomonas* (earlier heterotypic synonym), links through 10.1601/nm.2552. N4Lid DOI: 10.1601/nm.2735

Genus *Azomonas*^{AL} Winogradsky 1938. N4Lid DOI: 10.1601/nm.2709

Azomonas agilis^{AL} (Beijerinck 1901) Winogradsky 1938. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 7494. N4Lid DOI: 10.1601/nm.2710

Azomonas insignis^{AL} (Derx 1951) Jensen 1955. Source of type material recommended for DOE sponsored genome sequencing by the JGI: UQM 1966. N4Lid DOI: 10.1601/nm.2711

Azomonas macrocytogenes^{VP} (Jensen 1955) New and Tchan 1982. <== *Azotobacter macrocytogenes* (basonym). Synonym links through N4Lid: 10.1601/ex.2712. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 12335. N4Lid DOI: 10.1601/nm.2712

- † *Azomonotrichon macrocytogenes*^{VP} (Jensen 1955) Thompson and Skerman 1981. <== *Azotobacter macrocytogenes* (basonym). *Azomonas macrocytogenes* (new combination). Synonym links through N4Lid: 10.1601/ex.2712. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 12335. N4Lid 10.1601/nm.9098
- † *Azotobacter macrocytogenes*^{AL} Jensen 1955. ==> *Azomonotrichon macrocytogenes* (new combination). Synonym links through N4Lid: 10.1601/ex.2712. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 12335. N4Lid DOI: 10.1601/nm.2717
- Genus** † *Azomonotrichon*^{VP} Thompson and Skerman 1981. Unified with *Azomonas*, links through 10.1601/nm.9253. N4Lid 10.1601/nm.9097
- Genus** *Azorhizophilus*^{VP} Thompson and Skerman 1981. N4Lid 10.1601/nm.9099
- Azorhizophilus paspali*^{VP} (Döbereiner 1966) Thompson and Skerman 1981. <== *Azotobacter paspali* (basonym). Synonym links through N4Lid: 10.1601/ex.2720. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23833. N4Lid 10.1601/nm.9100
- † *Azotobacter paspali*^{AL} Döbereiner 1966. ==> *Azorhizophilus paspali* (new combination). Synonym links through N4Lid: 10.1601/ex.2720. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23833. N4Lid DOI: 10.1601/nm.2720
- Genus** *Azotobacter*^{AL} Beijerinck 1901. N4Lid DOI: 10.1601/nm.2713
- Azotobacter chroococcum*^{AL} Beijerinck 1901. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 9043. N4Lid DOI: 10.1601/nm.2714
- Azotobacter armeniacus*^{VP} Thompson and Skerman 1981. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 2284. N4Lid DOI: 10.1601/nm.2715
- Azotobacter beijerinckii*^{AL} Lipman 1904. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19360. N4Lid DOI: 10.1601/nm.2716
- Azotobacter nigricans subsp. nigricans*^{VP} Krasil'nikov 1949. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35009. N4Lid DOI: 10.1601/nm.2718
- Azotobacter nigricans subsp. achromogenes*^{VP} Thompson and Skerman 1981. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 2288. N4Lid DOI: 10.1601/nm.2719
- Azotobacter salinestrus*^{VP} Page and Shivprasad 1991. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49674. N4Lid DOI: 10.1601/nm.2721
- Azotobacter vinelandii*^{AL} Lipman 1903. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 478. GOLD ID: Gi00047. GCAT ID: 000708_GCAT. Entrez genome id: 16. Sequenced strain: AvOP is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 2 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2722
- Genus** *Cellvibrio*^{VP} (ex Winogradsky 1929) Blackall et al. 1986. N4Lid DOI: 10.1601/nm.2723
- Cellvibrio mixtus subsp. mixtus*^{VP} Blackall et al. 1986. Source of type material recommended for DOE sponsored genome sequencing by the JGI: UQM 2601. N4Lid DOI: 10.1601/nm.2724
- Cellvibrio mixtus subsp. dextranolyticus*^{VP} Blackall et al. 1986. Source of type material recommended for DOE sponsored genome sequencing by the JGI: UQM 1666. N4Lid DOI: 10.1601/nm.2725
- Cellvibrio fibrivorans*^{VP} Mergaert et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 18561. High-quality 16S rRNA sequence S000003217 (RDP), AJ289164 (Genbank). N4Lid DOI: 10.1601/nm.2726
- Cellvibrio fulvus*^{VP} (ex Stapp and Bortels 1934) Humphry et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCIMB 8634. High-quality 16S rRNA sequence S000394290 (RDP), AF448514 (Genbank). N4Lid DOI: 10.1601/nm.2727
- Cellvibrio gandavensis*^{VP} Mergaert et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 18551. High-quality 16S rRNA sequence S000001695 (RDP), AJ289162 (Genbank). N4Lid DOI: 10.1601/nm.2728

Cellvibrio japonicus^{VP} Humphry et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCIMB 10462. High-quality 16S rRNA sequence S000394396 (RDP), AF452103 (Genbank). N4Lid DOI: 10.1601/nm.2729

Cellvibrio ostraviensis^{VP} Mergaert et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 19434. High-quality 16S rRNA sequence S000134746 (RDP), AJ493583 (Genbank). N4Lid DOI: 10.1601/nm.2730

Cellvibrio vulgaris^{VP} (ex Stapp and Bortels 1934) Humphry et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCIMB 8633. High-quality 16S rRNA sequence S000394289 (RDP), AF448513 (Genbank). N4Lid DOI: 10.1601/nm.2731

Genus *Mesophilobacter*^{VP} Nishimura et al. 1989. N4Lid DOI: 10.1601/nm.2737

Mesophilobacter marinus^{VP} Nishimura et al. 1989. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51737. N4Lid DOI: 10.1601/nm.2738

Genus *Rhizobacter*^{VP} Goto and Kuwata 1988. N4Lid DOI: 10.1601/nm.2739

Rhizobacter dauci^{VP} corrig. Goto and Kuwata 1988. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43778. N4Lid DOI: 10.1601/nm.2740

Genus *Rugamonas*^{VP} Austin and Moss 1987. N4Lid DOI: 10.1601/nm.2741

Rugamonas rubra^{VP} Austin and Moss 1987. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43154. N4Lid DOI: 10.1601/nm.2742

Genus *Serpens*^{AL} Hespell 1977. N4Lid DOI: 10.1601/nm.2743

Serpens flexibilis^{AL} Hespell 1977. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29606. N4Lid DOI: 10.1601/nm.2744

Family *Moraxellaceae*^{VP} Rossau et al 1991. N4Lid DOI: 10.1601/nm.2745

Genus *Moraxella*^{AL} (subgen. *Moraxella* Lwoff 1939) Bøvre 1984. N4Lid DOI: 10.1601/nm.2746

Moraxella lacunata^{AL} (Eyre 1900) Lwoff 1939. ==><newname>Moraxella (Moraxella) lacunata</newname>Synonym links through N4Lid: 10.1601/ex.2747. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17967. High-quality 16S rRNA sequence S000386953 (RDP), AF005160 (Genbank). N4Lid DOI: 10.1601/nm.2747

Moraxella (Moraxella) lacunata^{VP} † (Eyre 1900) Bøvre 1984. <== *Moraxella lacunata* (basonym). Synonym links through N4Lid: 10.1601/ex.2747. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17967. High-quality 16S rRNA sequence S000386953 (RDP), AF005160 (Genbank). N4Lid 10.1601/nm.9084

Moraxella atlantae^{AL} Bøvre et al. 1976. ==><newname>Moraxella (Moraxella) atlantae</newname>Synonym links through N4Lid: 10.1601/ex.2749. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29525. N4Lid DOI: 10.1601/nm.2749

Moraxella (Moraxella) atlantae^{VP} † (Bøvre et al. 1976) Bøvre 1984. <== *Moraxella atlantae* (basonym). Synonym links through N4Lid: 10.1601/ex.2749. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29525. N4Lid 10.1601/nm.9082

Moraxella boevrei^{VP} Kodjo et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700022. N4Lid DOI: 10.1601/nm.2750

Moraxella bovis^{AL} (Hauduroy et al. 1937) Murray 1948. ==><newname>Moraxella (Moraxella) bovis</newname>Synonym links through N4Lid: 10.1601/ex.2751. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 10900. High-quality 16S rRNA sequence S000386975 (RDP), AF005182 (Genbank). GOLD ID: Gi00948. GCAT ID: 001214_GCAT. Entrez genome id: 16829. Sequenced strain: Epp63 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2751

Moraxella (Moraxella) bovis^{VP} † (Hauduroy et al. 1937) Bøvre 1984. <== *Moraxella bovis* (basonym). Synonym links through N4Lid: 10.1601/ex.2751. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 10900. High-quality 16S rRNA sequence S000386975 (RDP), AF005182 (Genbank). GOLD ID: Gi00948. GCAT ID: 001214_GCAT. Entrez genome id: 16829. Sequenced strain: Epp63 is from a non-type strain.

Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid 10.1601/nm.9083

Moraxella canis^{VP} Jannes et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51391. High-quality 16S rRNA sequence S000130775 (RDP), AJ269511 (Genbank). N4Lid DOI: 10.1601/nm.2752

Moraxella caprae^{VP} Kodjo et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700019. N4Lid DOI: 10.1601/nm.2753

Moraxella catarrhalis^{AL} (Frosch and Kolle 1896) Henriksen and Bøvre 1968. ==> *Branhamella catarrhalis* (new combination). Synonym links through N4Lid: 10.1601/ex.9079. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25238. High-quality 16S rRNA sequence S000386978 (RDP), AF005185 (Genbank). GOLD ID: Gi00377. GCAT ID: 001215_GCAT. Entrez genome id: 13412. Genome sequence is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 2 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2754

Moraxella (Branhamella) catarrhalis^{VP} † (Frosch and Kolle 1896) Bøvre 1984. <== *Moraxella catarrhalis* (basonym). Synonym links through N4Lid: 10.1601/ex.9079. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25238. High-quality 16S rRNA sequence S000437097 (RDP), U10876 (Genbank). GOLD ID: Gi00377. GCAT ID: 001215_GCAT. Entrez genome id: 13412. Genome sequence is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 2 (GOLD) 1 (NCBI). N4Lid 10.1601/nm.9079

† *Branhamella catarrhalis*^{AL} (Frosch and Kolle 1896) Catlin 1970. <== *Moraxella catarrhalis* (basonym). <newname>Moraxella (Branhamella) catarrhalis</newname>Synonym links through N4Lid: 10.1601/ex.9079. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25238. High-quality 16S rRNA sequence S000437097 (RDP), U10876 (Genbank). GOLD ID: Gi00377. GCAT ID: 001215_GCAT. Entrez genome id: 13412. Genome sequence is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 2 (GOLD) 1 (NCBI). N4Lid 10.1601/nm.9044

Moraxella caviae^{AL} (Pelczar 1953) Henriksen and Bøvre 1968. <== *Neisseria caviae* (basonym). <newname>Moraxella (Branhamella) caviae</newname>Synonym links through N4Lid: 10.1601/ex.2755. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14659. High-quality 16S rRNA sequence S000386980 (RDP), AF005187 (Genbank). N4Lid DOI: 10.1601/nm.2755

Moraxella (Branhamella) caviae^{VP} † (Pelczar 1953) Bøvre 1984. <== *Neisseria caviae* (basonym). Synonym links through N4Lid: 10.1601/ex.2755. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14659. N4Lid 10.1601/nm.9080

† *Neisseria caviae*^{AL} Pelczar 1953. ==> *Moraxella caviae* (new combination). Synonym links through N4Lid: 10.1601/ex.2755. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 355. High-quality 16S rRNA sequence S000386980 (RDP), AF005187 (Genbank). N4Lid DOI: 10.1601/nm.1913

Moraxella cuniculi^{VP} (Berger 1962) Bøvre and Hagen 1984. <== *Neisseria cuniculi* (basonym). Synonym links through N4Lid: 10.1601/ex.1915. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14688. N4Lid DOI: 10.1601/nm.2756

† *Neisseria cuniculi*^{AL} Berger 1962. ==> *Moraxella cuniculi* (new combination). Synonym links through N4Lid: 10.1601/ex.1915. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14688. N4Lid DOI: 10.1601/nm.1915

Moraxella equi^{AL} Hughes and Pugh 1970. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25576. N4Lid DOI: 10.1601/nm.2757

Moraxella lincolnii^{VP} Vandamme et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51388. N4Lid DOI: 10.1601/nm.2758

Moraxella nonliquefaciens^{AL} (Scarlett 1916) Lwoff 1939. ==><newname>Moraxella (Moraxella) nonliquefaciens</newname>Synonym links through N4Lid: 10.1601/ex.2759. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19975. N4Lid DOI: 10.1601/nm.2759

Moraxella (Moraxella) nonliquefaciens^{VP} † (Scarlett 1916) Bøvre 1984. <== *Moraxella nonliquefaciens* (basonym). Synonym links through N4Lid: 10.1601/ex.2759. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19975. N4Lid 10.1601/nm.9085

Moraxella oblonga^{VP} Xie and Yokota 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29468. High-quality 16S rRNA sequence S000469464 (RDP), AB087260 (Genbank). N4Lid 10.1601/nm.8709

† *Moraxella osloensis*^{AL} Bøvre and Henriksen 1967. ==><newname>Moraxella (Moraxella) osloensis</newname>Synonym links through N4Lid: 10.1601/ex.2760. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19976. N4Lid DOI: 10.1601/nm.2760

Moraxella (Moraxella) osloensis^{VP} † (Bøvre and Henriksen 1967) Bøvre 1984. <== *Moraxella osloensis* (basonym). Synonym links through N4Lid: 10.1601/ex.2760. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19976. N4Lid 10.1601/nm.9086

Moraxella ovis^{AL} (Lindqvist 1960) Henriksen and Bøvre 1968.<newname>Moraxella (Branhamella) ovis</newname> Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33078. High-quality 16S rRNA sequence S000386979 (RDP), AF005186 (Genbank). N4Lid DOI: 10.1601/nm.2761

Moraxella (Branhamella) ovis^{VP} † (Lindqvist 1960) Bøvre 1984. <== *Moraxella ovis* (basonym). Synonym links through N4Lid: 10.1601/ex.2761. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33078. N4Lid 10.1601/nm.9081

† *Neisseria ovis*^{AL} Lindqvist 1960. == *Moraxella (Branhamella) ovis* (later homotypic synonym), links through 10.1601/ex.1928. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33078. N4Lid DOI: 10.1601/nm.1928

Moraxella saccharolytica^{AL} Flamm 1956. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19248. N4Lid DOI: 10.1601/nm.2763

Genus † *Branhamella*^{AL} Catlin 1970. Unified with *Moraxella*, links through 10.1601/nm.4536. N4Lid 10.1601/nm.9043

Genus *Acinetobacter*^{AL} Brisou and Prévot 1954. N4Lid DOI: 10.1601/nm.2765

Acinetobacter calcoaceticus^{AL} (Beijerinck 1911) Baumann et al. 1968. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23055. High-quality 16S rRNA sequence S000381579 (RDP), Z93434 (Genbank). GOLD ID: Gc00201. GCAT ID: 000409_GCAT. Entrez genome id: 12352. Sequenced strain: ADP1 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.2766

Acinetobacter baumannii^{VP} Bouvet and Grimont 1986. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19606. High-quality 16S rRNA sequence S000012980 (RDP), X81660 (Genbank). GOLD ID: Gi00007. GCAT ID: 000635_GCAT. Sequenced strain: ATCC 17978 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 5 (GOLD) 4 (NCBI). N4Lid DOI: 10.1601/nm.2767

Acinetobacter baylyi^{VP} Carr et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14961. High-quality 16S rRNA sequence S000430598 (RDP), AF509820 (Genbank). GOLD ID: Gi00009. GCAT ID: 000634_GCAT. Sequenced strain: ATCC 33305 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 2 (GOLD). N4Lid DOI: 10.1601/nm.2768

Acinetobacter bouvetii^{VP} Carr et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14964. High-quality 16S rRNA sequence S000430605 (RDP), AF509827 (Genbank). N4Lid DOI: 10.1601/nm.2769

Acinetobacter gernerii^{VP} Carr et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14967. High-quality 16S rRNA sequence S000430607 (RDP), AF509829 (Genbank). N4Lid DOI: 10.1601/nm.2770

Acinetobacter grimontii^{VP} Carr et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14968. High-quality 16S rRNA sequence S000430606 (RDP), AF509828 (Genbank). N4Lid DOI: 10.1601/nm.2771

- Acinetobacter haemolyticus*^{VP} (ex Stenzel and Mannheim 1963) Bouvet and Grimont 1986. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17906. High-quality 16S rRNA sequence S000008827 (RDP), X81662 (Genbank). N4Lid DOI: 10.1601/nm.2772
- Acinetobacter johnsonii*^{VP} Bouvet and Grimont 1986. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17909. High-quality 16S rRNA sequence S000001137 (RDP), X81663 (Genbank). N4Lid DOI: 10.1601/nm.2773
- Acinetobacter junii*^{VP} Bouvet and Grimont 1986. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17908. High-quality 16S rRNA sequence S000010336 (RDP), X81664 (Genbank). N4Lid DOI: 10.1601/nm.2774
- Acinetobacter lwoffii*^{AL} (Audureau 1940) Brisou and Prévot 1954. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15309. High-quality 16S rRNA sequence S000003452 (RDP), X81665 (Genbank). N4Lid DOI: 10.1601/nm.2775
- Acinetobacter parvus*^{VP} Nemeč et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 21765. High-quality 16S rRNA sequence S000147422 (RDP), AJ293691 (Genbank). N4Lid DOI: 10.1601/nm.2776
- Acinetobacter radioresistens*^{VP} Nishimura et al. 1988. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43998. High-quality 16S rRNA sequence S000002678 (RDP), X81666 (Genbank). N4Lid DOI: 10.1601/nm.2777
- Acinetobacter schindleri*^{VP} Nemeč et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-618. High-quality 16S rRNA sequence S000128483 (RDP), AJ278311 (Genbank). N4Lid DOI: 10.1601/nm.2778
- Acinetobacter tandoii*^{VP} Carr et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14970. High-quality 16S rRNA sequence S000430608 (RDP), AF509830 (Genbank). N4Lid DOI: 10.1601/nm.2779
- Acinetobacter tjernbergiae*^{VP} Carr et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14971. High-quality 16S rRNA sequence S000430603 (RDP), AF509825 (Genbank). N4Lid DOI: 10.1601/nm.2780
- Acinetobacter townneri*^{VP} Carr et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14962. High-quality 16S rRNA sequence S000430601 (RDP), AF509823 (Genbank). N4Lid DOI: 10.1601/nm.2781
- Acinetobacter ursingii*^{VP} Nemeč et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-617. High-quality 16S rRNA sequence S000127903 (RDP), AJ275038 (Genbank). N4Lid DOI: 10.1601/nm.2782
- Genus *Alkanindiges***^{VP} Bogan et al. 2003. N4Lid DOI: 10.1601/nm.2783
- Alkanindiges illinoisensis*^{VP} Bogan et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC PTA-4839. High-quality 16S rRNA sequence S000430917 (RDP), AF513979 (Genbank). N4Lid DOI: 10.1601/nm.2784
- Genus *Psychrobacter***^{VP} Juni and Heym 1986. GOLD ID: Gi01521. GCAT ID: 001394_GCAT. Entrez genome id: 15759. Sequenced strain: PRwf-1 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2785
- Psychrobacter immobilis*^{VP} Juni and Heym 1986. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43116. High-quality 16S rRNA sequence S000437561 (RDP), U39399 (Genbank). N4Lid DOI: 10.1601/nm.2786
- Psychrobacter adeliensis*^{VP} Shivaji et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15333. N4Lid 10.1601/nm.9297
- Psychrobacter alimentarius*^{VP} Yoon et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16065. High-quality 16S rRNA sequence S000474146 (RDP), AY513645 (Genbank). N4Lid 10.1601/nm.8803
- Psychrobacter aquaticus*^{VP} Shivaji et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15339. High-quality 16S rRNA sequence S000539441 (RDP), AJ584833 (Genbank). N4Lid 10.1601/nm.9361

- Psychrobacter aquimaris*^{VP} Yoon et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16329. High-quality 16S rRNA sequence S000541022 (RDP), AY722804 (Genbank). N4Lid 10.1601/nm.9422
- Psychrobacter arcticus*^{VP} Bakermans et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1227. High-quality 16S rRNA sequence S000502157 (RDP), AY444822 (Genbank). GOLD ID: Gc00278. GCAT ID: 000331_GCAT. Entrez genome id: 9633. Sequenced strain: 273-4 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.10107
- Psychrobacter arenosus*^{VP} Romanenko et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15389. High-quality 16S rRNA sequence S000416962 (RDP), AJ609273 (Genbank). N4Lid 10.1601/nm.8804
- Psychrobacter celer*^{VP} Yoon et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12601. High-quality 16S rRNA sequence S000467868 (RDP), AY842259 (Genbank). N4Lid 10.1601/nm.9620
- Psychrobacter cibarius*^{VP} Jung et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16327. High-quality 16S rRNA sequence S000504721 (RDP), AY639871 (Genbank). N4Lid 10.1601/nm.9344
- Psychrobacter cryohalolentis*^{VP} Bakermans et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1226. High-quality 16S rRNA sequence S000594703 (RDP), AY660685 (Genbank). GOLD ID: Gc00373. GCAT ID: 000237_GCAT. Entrez genome id: 13920. Sequenced strain: K5 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.10106
- Psychrobacter faecalis*^{VP} Kämpfer et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14664. High-quality 16S rRNA sequence S000129392 (RDP), AJ421528 (Genbank). N4Lid DOI: 10.1601/nm.2787
- Psychrobacter fozii*^{VP} Bozal et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 21280. High-quality 16S rRNA sequence S000137020 (RDP), AJ430827 (Genbank). N4Lid DOI: 10.1601/nm.2788
- Psychrobacter frigidicola*^{VP} Bowman et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700361. High-quality 16S rRNA sequence S000437662 (RDP), U46143 (Genbank). N4Lid DOI: 10.1601/nm.2789
- Psychrobacter glacincola*^{VP} Bowman et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700754. High-quality 16S rRNA sequence S000437664 (RDP), U46145 (Genbank). N4Lid DOI: 10.1601/nm.2790
- Psychrobacter jeotgali*^{VP} Yoon et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 11463. High-quality 16S rRNA sequence S000394174 (RDP), AF441201 (Genbank). N4Lid DOI: 10.1601/nm.2791
- Psychrobacter luti*^{VP} Bozal et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 21276. High-quality 16S rRNA sequence S000136516 (RDP), AJ430828 (Genbank). N4Lid DOI: 10.1601/nm.2792
- Psychrobacter marincola*^{VP} Romanenko et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14160. High-quality 16S rRNA sequence S000083933 (RDP), AJ309941 (Genbank). N4Lid DOI: 10.1601/nm.2793
- Psychrobacter maritimus*^{VP} Romanenko et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15387. High-quality 16S rRNA sequence S000543966 (RDP), AJ609272 (Genbank). N4Lid 10.1601/nm.8805
- Psychrobacter namhaensis*^{VP} Yoon et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16330. High-quality 16S rRNA sequence S000541023 (RDP), AY722805 (Genbank). N4Lid 10.1601/nm.9423
- Psychrobacter nivimaris*^{VP} Heuchert et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16093. High-quality 16S rRNA sequence S000376605 (RDP), AJ313425 (Genbank). N4Lid 10.1601/nm.8806

Psychrobacter okhotskensis^{VP} Yumoto et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 11840. High-quality 16S rRNA sequence S000251649 (RDP), AB094794 (Genbank). N4Lid DOI: 10.1601/nm.2794

Psychrobacter pacificensis^{VP} Maruyama et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: IFO 16270. High-quality 16S rRNA sequence S000382360 (RDP), AB016057 (Genbank). N4Lid DOI: 10.1601/nm.2795

Psychrobacter phenylpyruvicus^{VP} (Bøvre and Henriksen 1967) Bowman et al. 1996. <==
Moraxella phenylpyruvica (basonym). Synonym links through N4Lid: 10.1601/ex.2762. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23333. High-quality 16S rRNA sequence S000437663 (RDP), U46144 (Genbank). N4Lid DOI: 10.1601/nm.2796

Moraxella (Moraxella) phenylpyruvica^{VP} † (Bøvre and Henriksen 1967) Bøvre 1984. <==
Moraxella phenylpyruvica (basonym). *Psychrobacter phenylpyruvicus* (new combination). Synonym links through N4Lid: 10.1601/ex.2762. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23333. High-quality 16S rRNA sequence S000437663 (RDP), U46144 (Genbank). N4Lid 10.1601/nm.9087

† *Moraxella phenylpyruvica*^{AL} Bøvre and Henriksen 1967. ==><newname>Moraxella (Moraxella) phenylpyruvica</newname>Synonym links through N4Lid: 10.1601/ex.2762. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23333. High-quality 16S rRNA sequence S000437663 (RDP), U46144 (Genbank). N4Lid DOI: 10.1601/nm.2762

Psychrobacter proteolyticus^{VP} Denner et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13887. High-quality 16S rRNA sequence S000129378 (RDP), AJ272303 (Genbank). N4Lid DOI: 10.1601/nm.2797

Psychrobacter pulmonis^{VP} Vela et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 46240. High-quality 16S rRNA sequence S000125539 (RDP), AJ437696 (Genbank). N4Lid DOI: 10.1601/nm.2798

Psychrobacter salsus^{VP} Shivaji et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15338. High-quality 16S rRNA sequence S000530887 (RDP), AJ539104 (Genbank). N4Lid 10.1601/nm.9298

Psychrobacter submarinus^{VP} Romanenko et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14161. High-quality 16S rRNA sequence S000083764 (RDP), AJ309940 (Genbank). N4Lid DOI: 10.1601/nm.2799

Psychrobacter urativorans^{VP} Bowman et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15174. High-quality 16S rRNA sequence S000437660 (RDP), U46141 (Genbank). N4Lid DOI: 10.1601/nm.2800

Psychrobacter vallis^{VP} Shivaji et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15337. High-quality 16S rRNA sequence S000539440 (RDP), AJ584832 (Genbank). N4Lid 10.1601/nm.9360

Family Incertae sedis 6^{NVP} N4Lid DOI: 10.1601/nm.2801

Genus Enhydrobacter^{VP} Staley et al. 1987. N4Lid DOI: 10.1601/nm.2802

Enhydrobacter aerosaccus^{VP} Staley et al. 1987. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27094. High-quality 16S rRNA sequence S000117304 (RDP), AJ550856 (Genbank). N4Lid DOI: 10.1601/nm.2803

Order Alteromonadales^{VP} Bowman and McMeekin 2005. GOLD ID: Gi01432. GCAT ID: 000897_GCAT. Entrez genome id: 18465. Sequenced strain: TW-7 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2804

Family Alteromonadaceae^{VP} Ivanova and Mikhailov 2001. N4Lid DOI: 10.1601/nm.2805

Genus Alteromonas^{AL} Baumann et al. 1972. N4Lid DOI: 10.1601/nm.2806

Alteromonas macleodii^{AL} Baumann et al. 1972. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27126. High-quality 16S rRNA sequence S000014590 (RDP), Y18228 (Genbank). GOLD ID: Gi00833. GCAT ID: 000695_GCAT. Entrez genome id: 13374. Sequenced strain: deep ecotype is from a non-type strain. Genome sequencing

is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2807

Alteromonas addita^{VP} Ivanova et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22532. High-quality 16S rRNA sequence S000549304 (RDP), AY682202 (Genbank). N4Lid 10.1601/nm.9426

Alteromonas hispanica^{VP} Martínez-Checa et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22958. High-quality 16S rRNA sequence S000493804 (RDP), AY926460 (Genbank). N4Lid 10.1601/nm.9735

Alteromonas litorea^{VP} Yoon et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12188. High-quality 16S rRNA sequence S000368760 (RDP), AY428573 (Genbank). N4Lid DOI: 10.1601/nm.8458

Alteromonas marina^{VP} Yoon et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 11804. High-quality 16S rRNA sequence S000431605 (RDP), AF529060 (Genbank). N4Lid DOI: 10.1601/nm.2822

Alteromonas stellipolaris^{VP} Van Trappen et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15691. High-quality 16S rRNA sequence S000145543 (RDP), AJ295715 (Genbank). N4Lid DOI: 10.1601/nm.8459

Genus *Aestuariibacter*^{VP} Yi et al. 2004. N4Lid DOI: 10.1601/nm.2829

Aestuariibacter halophilus^{VP} Yi et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15266. High-quality 16S rRNA sequence S000401710 (RDP), AY207503 (Genbank). N4Lid DOI: 10.1601/nm.2830

Aestuariibacter salexigens^{VP} Yi et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15300. High-quality 16S rRNA sequence S000401709 (RDP), AY207502 (Genbank). N4Lid DOI: 10.1601/nm.2831

Genus *Glaciecola*^{VP} Bowman et al. 1998. N4Lid DOI: 10.1601/nm.2844

Glaciecola punicea^{VP} Bowman et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700756. High-quality 16S rRNA sequence S000438569 (RDP), U85853 (Genbank). N4Lid DOI: 10.1601/nm.2845

Glaciecola mesophila^{VP} Romanenko et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15026. High-quality 16S rRNA sequence S000133398 (RDP), AJ488501 (Genbank). N4Lid DOI: 10.1601/nm.2846

Glaciecola nitratreducens^{VP} Baik et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12485. High-quality 16S rRNA sequence S000444600 (RDP), AY787042 (Genbank). N4Lid DOI: 10.1601/nm.10291

Glaciecola pallidula^{VP} Bowman et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700757. High-quality 16S rRNA sequence S000438570 (RDP), U85854 (Genbank). N4Lid DOI: 10.1601/nm.2847

Glaciecola polaris^{VP} Van Trappen et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108324. High-quality 16S rRNA sequence S000543863 (RDP), AJ293820 (Genbank). N4Lid DOI: 10.1601/nm.8593

Family *Colwelliaceae*^{VP} Ivanova et al 2004. N4Lid 10.1601/nm.8924

Genus *Colwellia*^{VP} Deming et al. 1988. GOLD ID: Gi00733. GCAT ID: 000975_GCAT. Sequenced strain: MT41 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.2834

Colwellia psychrerythraea^{VP} corrig. (ex D'Aoust and Kushner 1972) Deming et al. 1988. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27364. High-quality 16S rRNA sequence S000386862 (RDP), AF001375 (Genbank). GOLD ID: Gc00280. GCAT ID: 000329_GCAT. Entrez genome id: 275. Sequenced strain: ATCC BAA-681 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2835

Colwellia aestuarii^{VP} Jung et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17314. High-quality 16S rRNA sequence S000537159 (RDP), DQ055844 (Genbank). N4Lid 10.1601/nm.9834

Colwellia demingiae^{VP} Bowman et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 105823. High-quality 16S rRNA sequence S000438561 (RDP), U85845 (Genbank). N4Lid DOI: 10.1601/nm.2836

Colwellia hadaliensis^{VP} Deming et al. 1988. Source of type material recommended for DOE sponsored genome sequencing by the JGI: BNL-1. N4Lid DOI: 10.1601/nm.2837

Colwellia hornerae^{VP} Bowman et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 105821. High-quality 16S rRNA sequence S000438563 (RDP), U85847 (Genbank). N4Lid DOI: 10.1601/nm.2838

Colwellia maris^{VP} Yumoto et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 106458. High-quality 16S rRNA sequence S000427298 (RDP), AB002630 (Genbank). N4Lid DOI: 10.1601/nm.2839

Colwellia piezophila^{VP} Nogi et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-637. High-quality 16S rRNA sequence S000415024 (RDP), AB094412 (Genbank). N4Lid DOI: 10.1601/nm.8550

Colwellia psychrotropica^{VP} Bowman et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ACAM 179. High-quality 16S rRNA sequence S000438562 (RDP), U85846 (Genbank). N4Lid DOI: 10.1601/nm.2840

Colwellia rossensis^{VP} Bowman et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ACAM 608. High-quality 16S rRNA sequence S000437164 (RDP), U14581 (Genbank). N4Lid DOI: 10.1601/nm.2841

Genus *Thalassomonas*^{VP} Macián et al. 2001. N4Lid DOI: 10.1601/nm.2938

Thalassomonas viridans^{VP} Macián et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13754. High-quality 16S rRNA sequence S000022645 (RDP), AJ294748 (Genbank). N4Lid DOI: 10.1601/nm.2939

Thalassomonas agarivorans^{VP} Jean et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 13379. High-quality 16S rRNA sequence S000614397 (RDP), DQ212914 (Genbank). N4Lid DOI: 10.1601/nm.10104

Thalassomonas ganghwensis^{VP} Yi et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15355. High-quality 16S rRNA sequence S000401518 (RDP), AY194066 (Genbank). N4Lid DOI: 10.1601/nm.2940

Thalassomonas loyana^{VP} Thompson et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22536. High-quality 16S rRNA sequence S000534544 (RDP), AY643537 (Genbank). N4Lid 10.1601/nm.9892

Family *Ferrimonadaceae*^{VP} vanova et al. 2004. N4Lid 10.1601/nm.8925

Genus *Ferrimonas*^{VP} Rosselló-Mora et al. 1996. N4Lid DOI: 10.1601/nm.2842

Ferrimonas balearica^{VP} Rosselló-Mora et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 9799. High-quality 16S rRNA sequence S000245172 (RDP), X93021 (Genbank). N4Lid DOI: 10.1601/nm.2843

Ferrimonas marina^{VP} Katsuta et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16917. High-quality 16S rRNA sequence S000469883 (RDP), AB193751 (Genbank). N4Lid 10.1601/nm.9617

Family *Idiomarinaceae*^{VP} Ivanova et al 2004. N4Lid 10.1601/nm.8926

Genus *Idiomarina*^{VP} Ivanova et al. 2000. N4Lid DOI: 10.1601/nm.2848

Idiomarina abyssalis^{VP} Ivanova et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-312. High-quality 16S rRNA sequence S000428097 (RDP), AF052740 (Genbank). N4Lid DOI: 10.1601/nm.2849

Idiomarina baltica^{VP} Brettar et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15154. High-quality 16S rRNA sequence S000146564 (RDP), AJ440214 (Genbank). GOLD ID: Gi00831. GCAT ID: 000373_GCAT. Entrez genome id: 13408. Sequenced strain: DSM 15154 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2850

Idiomarina fontislapidosi^{VP} Martínez-Cánovas et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22169. High-quality 16S rRNA sequence S000420507 (RDP), AY526861 (Genbank). N4Lid 10.1601/nm.8624

Idiomarina homiensis^{VP} Kwon et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17923. High-quality 16S rRNA sequence S000640697 (RDP), DQ342238 (Genbank). N4Lid DOI: 10.1601/nm.10293

Idiomarina loihiensis^{VP} Donachie et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-735. High-quality 16S rRNA sequence S000340900 (RDP), AF288370 (Genbank). GOLD ID: Gc00236. GCAT ID: 000374_GCAT. Entrez genome id: 10790. Sequenced strain: ATCC BAA-735 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2851

Idiomarina ramblicola^{VP} Martínez-Cánovas et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22170. High-quality 16S rRNA sequence S000420508 (RDP), AY526862 (Genbank). N4Lid 10.1601/nm.8625

Idiomarina seosinensis^{VP} Choi and Cho 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12526. High-quality 16S rRNA sequence S000475708 (RDP), AY635468 (Genbank). N4Lid 10.1601/nm.8626

Idiomarina zobellii^{VP} Ivanova et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-313. High-quality 16S rRNA sequence S000428098 (RDP), AF052741 (Genbank). N4Lid DOI: 10.1601/nm.2852

Genus *Pseudidiomarina*^{VP} Jean et al. 2006. N4Lid DOI: 10.1601/nm.10014

Pseudidiomarina taiwanensis^{VP} Jean et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 13360. High-quality 16S rRNA sequence S000584690 (RDP), DQ118948 (Genbank). N4Lid DOI: 10.1601/nm.10013

Family *Moritellaceae*^{VP} Ivanova et al 2004. N4Lid 10.1601/nm.8927

Genus *Moritella*^{VP} Urakawa et al. 1999. GOLD ID: Gi00854. GCAT ID: 001217_GCAT. Entrez genome id: 13535. Sequenced strain: PE36 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2868

Moritella marina^{VP} (Baumann et al. 1984) Urakawa et al. 1999. <== *Vibrio marinus* (basonym). Synonym links through N4Lid: 10.1601/ex.2981. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15381. High-quality 16S rRNA sequence S000005931 (RDP), X74709 (Genbank). N4Lid DOI: 10.1601/nm.2869

† *Vibrio marinus*^{VP} (ex Russell 1892) Baumann et al. 1984. ==> *Moritella marina* (new combination). Synonym links through N4Lid: 10.1601/ex.2981. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15381. High-quality 16S rRNA sequence S000005931 (RDP), X74709 (Genbank). N4Lid DOI: 10.1601/nm.2981

Moritella abyssi^{VP} Xu et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 11436. High-quality 16S rRNA sequence S000002003 (RDP), AJ252022 (Genbank). N4Lid DOI: 10.1601/nm.2870

Moritella japonica^{VP} Nogi et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14879. High-quality 16S rRNA sequence S000581881 (RDP), D21224 (Genbank). N4Lid DOI: 10.1601/nm.2871

Moritella profunda^{VP} Xu et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 11435. High-quality 16S rRNA sequence S000084123 (RDP), AJ252023 (Genbank). N4Lid DOI: 10.1601/nm.2872

Moritella yayanosii^{VP} Nogi and Kato 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 10263. High-quality 16S rRNA sequence S000541789 (RDP), AB008797 (Genbank). N4Lid DOI: 10.1601/nm.2874

Family *Pseudoalteromonadaceae*^{VP} Ivanova et al 2004. N4Lid 10.1601/nm.8928

Genus *Pseudoalteromonas*^{VP} Gauthier et al. 1995. N4Lid DOI: 10.1601/nm.2875

Pseudoalteromonas haloplanktis subsp. *haloplanktis*^{VP} (ZoBell and Upham 1944) Gauthier et al. 1995. <== *Alteromonas haloplanktis* (basonym). Synonym links through N4Lid: 10.1601/ex.2819. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC

14393. High-quality 16S rRNA sequence S000127669 (RDP), X67024 (Genbank). GOLD ID: Gc00289. GCAT ID: 000320_GCAT. Entrez genome id: 15713. Sequenced strain: TAC125 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2876

† *Alteromonas haloplanktis*^{AL} (ZoBell and Upham 1944) Reichelt and Baumann 1973. ==> *Pseudoalteromonas haloplanktis subsp. haloplanktis* (new combination). Synonym links through N4Lid: 10.1601/ex.2819. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14393. High-quality 16S rRNA sequence S000127669 (RDP), X67024 (Genbank). GOLD ID: Gc00289. GCAT ID: 000320_GCAT. Entrez genome id: 15713. Sequenced strain: TAC125 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2819

Pseudoalteromonas agarivorans^{VP} Romanenko et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14585. High-quality 16S rRNA sequence S000116587 (RDP), AJ417594 (Genbank). N4Lid DOI: 10.1601/nm.2878

Pseudoalteromonas aliena^{VP} Ivanova et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22059. High-quality 16S rRNA sequence S000461693 (RDP), AY387858 (Genbank). N4Lid 10.1601/nm.8790

Pseudoalteromonas antarctica^{VP} Bozal et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CECT 4664. High-quality 16S rRNA sequence S000004775 (RDP), X98336 (Genbank). N4Lid DOI: 10.1601/nm.2879

Pseudoalteromonas atlantica^{VP} (Akagawa-Matsushita et al. 1992) Gauthier et al. 1995. <== *Alteromonas atlantica* (basonym). Synonym links through N4Lid: 10.1601/ex.2808. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19262. High-quality 16S rRNA sequence S000006832 (RDP), X82134 (Genbank). GOLD ID: Gc00395. GCAT ID: 000215_GCAT. Entrez genome id: 13454. Sequenced strain: T6c is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2880

† *Alteromonas atlantica*^{VP} Akagawa-Matsushita et al. 1992. ==> *Pseudoalteromonas atlantica* (new combination). Synonym links through N4Lid: 10.1601/ex.2808. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19262. High-quality 16S rRNA sequence S000006832 (RDP), X82134 (Genbank). GOLD ID: Gc00395. GCAT ID: 000215_GCAT. Entrez genome id: 13454. Sequenced strain: T6c is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2808

Pseudoalteromonas aurantia^{VP} (Gauthier and Breittmayer 1979) Gauthier et al. 1995. <== *Alteromonas aurantia* (basonym). Synonym links through N4Lid: 10.1601/ex.2809. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33046. High-quality 16S rRNA sequence S000003353 (RDP), X82135 (Genbank). N4Lid DOI: 10.1601/nm.2881

† *Alteromonas aurantia*^{AL} Gauthier and Breittmayer 1979. ==> *Pseudoalteromonas aurantia* (new combination). Synonym links through N4Lid: 10.1601/ex.2809. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33046. High-quality 16S rRNA sequence S000003353 (RDP), X82135 (Genbank). N4Lid DOI: 10.1601/nm.2809

Pseudoalteromonas byusanensis^{VP} Park et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12483. High-quality 16S rRNA sequence S000541569 (RDP), DQ011289 (Genbank). N4Lid 10.1601/nm.9739

Pseudoalteromonas carrageenovora^{VP} (Akagawa-Matsushita et al. 1992) Gauthier et al. 1995. <== *Alteromonas carrageenovora* (basonym). Synonym links through N4Lid: 10.1601/ex.2810. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43555. High-quality 16S rRNA sequence S000011480 (RDP), X82136 (Genbank). N4Lid DOI: 10.1601/nm.2883

† *Alteromonas carrageenovora*^{VP} Akagawa-Matsushita et al. 1992. ==> *Pseudoalteromonas carrageenovora* (new combination). Synonym links through N4Lid: 10.1601/ex.2810. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43555. High-quality 16S rRNA sequence S000011480 (RDP), X82136 (Genbank). N4Lid DOI: 10.1601/nm.2810

Pseudoalteromonas citrea^{VP} (Gauthier 1977) Gauthier et al. 1995. <== *Alteromonas citrea* (basonym). Synonym links through N4Lid: 10.1601/ex.2811. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29719. High-quality 16S rRNA sequence S000431607 (RDP), AF529062 (Genbank). N4Lid DOI: 10.1601/nm.2884

† *Alteromonas citrea*^{AL} Gauthier 1977. ==> *Pseudoalteromonas citrea* (new combination). Synonym links through N4Lid: 10.1601/ex.2811. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29719. High-quality 16S rRNA sequence S000431607 (RDP), AF529062 (Genbank). N4Lid DOI: 10.1601/nm.2811

† *Alteromonas fuliginea*^{VP} Romanenko et al. 1995. ≈ *Alteromonas citrea* (earlier heterotypic synonym), links through 10.1601/nm.2811. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 105339. High-quality 16S rRNA sequence S000431607 (RDP), AF529062 (Genbank). N4Lid DOI: 10.1601/nm.2818

Pseudoalteromonas denitrificans^{VP} (Enger et al. 1987) Gauthier et al. 1995. <== *Alteromonas denitrificans* (basonym). Synonym links through N4Lid: 10.1601/ex.2814. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43337. High-quality 16S rRNA sequence S000010276 (RDP), X82138 (Genbank). N4Lid DOI: 10.1601/nm.2885

† *Alteromonas denitrificans*^{VP} Enger et al. 1987. ==> *Pseudoalteromonas denitrificans* (new combination). Synonym links through N4Lid: 10.1601/ex.2814. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43337. High-quality 16S rRNA sequence S000010276 (RDP), X82138 (Genbank). N4Lid DOI: 10.1601/nm.2814

Pseudoalteromonas distincta^{VP} (Romanenko et al. 1995) Ivanova et al. 2000. <== *Alteromonas distincta* (basonym). Synonym links through N4Lid: 10.1601/ex.2815. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700518. High-quality 16S rRNA sequence S000428018 (RDP), AF043742 (Genbank). N4Lid DOI: 10.1601/nm.2886

† *Alteromonas distincta*^{VP} Romanenko et al. 1995. ==> *Pseudoalteromonas distincta* (new combination). Synonym links through N4Lid: 10.1601/ex.2815. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700518. High-quality 16S rRNA sequence S000428018 (RDP), AF043742 (Genbank). N4Lid DOI: 10.1601/nm.2815

Pseudoalteromonas elyakovii^{VP} (Ivanova et al. 1997) Sawabe et al. 2000. <== *Alteromonas elyakovii* (basonym). Synonym links through N4Lid: 10.1601/ex.2816. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700519. High-quality 16S rRNA sequence S000428559 (RDP), AF082562 (Genbank). N4Lid DOI: 10.1601/nm.2887

† *Alteromonas elyakovii*^{VP} Ivanova et al. 1997. ==> *Pseudoalteromonas elyakovii* (new combination). Synonym links through N4Lid: 10.1601/ex.2816. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700519. High-quality 16S rRNA sequence S000428559 (RDP), AF082562 (Genbank). N4Lid DOI: 10.1601/nm.2816

Pseudoalteromonas espejiana^{VP} (Chan et al. 1978) Gauthier et al. 1995. <== *Alteromonas espejiana* (basonym). Synonym links through N4Lid: 10.1601/ex.2817. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29659. High-quality 16S rRNA sequence S000003384 (RDP), X82143 (Genbank). N4Lid DOI: 10.1601/nm.2888

† *Alteromonas espejiana*^{AL} Chan et al. 1978. ==> *Pseudoalteromonas espejiana* (new combination). Synonym links through N4Lid: 10.1601/ex.2817. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29659. High-quality 16S rRNA sequence S000003384 (RDP), X82143 (Genbank). N4Lid DOI: 10.1601/nm.2817

Pseudoalteromonas flavipulchra^{VP} Ivanova et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-314. High-quality 16S rRNA sequence S000390924 (RDP), AF297958 (Genbank). N4Lid DOI: 10.1601/nm.2889

Pseudoalteromonas issachenkonii^{VP} Ivanova et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 106858. High-quality 16S rRNA sequence S000391399 (RDP), AF316144 (Genbank). N4Lid DOI: 10.1601/nm.2890

Pseudoalteromonas luteoviolacea^{VP} (Gauthier 1982) Gauthier et al. 1995. <== *Alteromonas luteoviolacea* (basonym). Synonym links through N4Lid: 10.1601/ex.2821. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33492. High-quality 16S rRNA sequence S000008088 (RDP), X82144 (Genbank). N4Lid DOI: 10.1601/nm.2891

† *Alteromonas luteoviolacea*^{VP} (ex Gauthier 1976) Gauthier 1982. ==> *Pseudoalteromonas luteoviolacea* (new combination). Synonym links through N4Lid: 10.1601/ex.2821. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33492. High-quality 16S rRNA sequence S000008088 (RDP), X82144 (Genbank). N4Lid DOI: 10.1601/nm.2821

Pseudoalteromonas maricaloris^{VP} Ivanova et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 106859. High-quality 16S rRNA sequence S000388104 (RDP), AF144036 (Genbank). N4Lid DOI: 10.1601/nm.2892

Pseudoalteromonas mariniglutinosa^{VP} (ex Berland et al. 1969) Romanenko et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCIMB 1770. High-quality 16S rRNA sequence S000136741 (RDP), AJ507251 (Genbank). N4Lid DOI: 10.1601/nm.2893

Pseudoalteromonas nigrifaciens^{VP} (Baumann et al. 1984) Gauthier et al. 1995. <== *Alteromonas nigrifaciens* (basonym). Synonym links through N4Lid: 10.1601/ex.2823. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19375. High-quality 16S rRNA sequence S000016359 (RDP), X82146 (Genbank). N4Lid DOI: 10.1601/nm.2894

† *Alteromonas nigrifaciens*^{VP} (ex White 1940) Baumann et al. 1984. ==> *Pseudoalteromonas nigrifaciens* (new combination). Synonym links through N4Lid: 10.1601/ex.2823. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19375. High-quality 16S rRNA sequence S000016359 (RDP), X82146 (Genbank). N4Lid DOI: 10.1601/nm.2823

Pseudoalteromonas paragorgicola^{VP} Ivanova et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-322. High-quality 16S rRNA sequence S000434796 (RDP), AY040229 (Genbank). N4Lid DOI: 10.1601/nm.2895

Pseudoalteromonas peptidolytica^{VP} Venkateswaran and Dohmoto 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 107066. High-quality 16S rRNA sequence S000427666 (RDP), AF007286 (Genbank). N4Lid DOI: 10.1601/nm.2896

Pseudoalteromonas phenolica^{VP} Isnansetyo and Kamei 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: IAM 14989. High-quality 16S rRNA sequence S000391761 (RDP), AF332880 (Genbank). N4Lid DOI: 10.1601/nm.2897

Pseudoalteromonas piscicida^{VP} (ex Bein 1954) Gauthier et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15057. High-quality 16S rRNA sequence S000015743 (RDP), X82215 (Genbank). N4Lid DOI: 10.1601/nm.2898

Pseudoalteromonas prydzensis^{VP} Bowman 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 105820. N4Lid DOI: 10.1601/nm.2899

Pseudoalteromonas rubra^{VP} (Gauthier 1976) Gauthier et al. 1995. <== *Alteromonas rubra* (basonym). Synonym links through N4Lid: 10.1601/ex.2825. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29570. High-quality 16S rRNA sequence S000015298 (RDP), X82147 (Genbank). N4Lid DOI: 10.1601/nm.2900

† *Alteromonas rubra*^{AL} Gauthier 1976. ==> *Pseudoalteromonas rubra* (new combination). Synonym links through N4Lid: 10.1601/ex.2825. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29570. High-quality 16S rRNA sequence S000015298 (RDP), X82147 (Genbank). N4Lid DOI: 10.1601/nm.2825

Pseudoalteromonas ruthenica^{VP} Ivanova et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 106857. High-quality 16S rRNA sequence S000391414 (RDP), AF316891 (Genbank). N4Lid DOI: 10.1601/nm.2901

Pseudoalteromonas sagamiensis^{VP} Kobayashi et al. 2003. *Algicola sagamiensis* (new combination). Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14643. High-quality 16S rRNA sequence S000334592 (RDP), AB063324 (Genbank). N4Lid DOI: 10.1601/nm.2902

Pseudoalteromonas spongiae^{VP} Lau et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NRRL B-41100. High-quality 16S rRNA sequence S000575167 (RDP), AY769918 (Genbank). N4Lid 10.1601/nm.9531

Pseudoalteromonas haloplanktis subsp. *tetraodonis*^{VP} (Simidu et al. 1990) Gauthier et al. 1995. <== *Alteromonas tetraodonis* (basonym). *Pseudoalteromonas tetraodonis* (new combination). Synonym links through N4Lid: 10.1601/ex.2826. Source of type material recommended for DOE

sponsored genome sequencing by the JGI: ATCC 51193. High-quality 16S rRNA sequence S000021637 (RDP), X82139 (Genbank). N4Lid DOI: 10.1601/nm.2877

† *Alteromonas tetraodonis*^{VP} Simidu et al. 1990. ==> *Pseudoalteromonas haloplanktis* subsp. *tetraodonis* (new combination). Synonym links through N4Lid: 10.1601/ex.2826. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51193. High-quality 16S rRNA sequence S000021637 (RDP), X82139 (Genbank). N4Lid DOI: 10.1601/nm.2826

Pseudoalteromonas tetraodonis^{VP} (Simidu et al. 1990) Ivanova et al. 2001. <== *Alteromonas tetraodonis* (basonym). Synonym links through N4Lid: 10.1601/ex.2826. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51193. High-quality 16S rRNA sequence S000021637 (RDP), X82139 (Genbank). N4Lid DOI: 10.1601/nm.2903

Pseudoalteromonas translucida^{VP} Ivanova et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-315. High-quality 16S rRNA sequence S000434797 (RDP), AY040230 (Genbank). N4Lid DOI: 10.1601/nm.2904

Pseudoalteromonas tunicata^{VP} Holmström et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 44952. High-quality 16S rRNA sequence S000003525 (RDP), Z25522 (Genbank). GOLD ID: Gi00876. GCAT ID: 001381_GCAT. Entrez genome id: 13456. Sequenced strain: D2 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2905

Pseudoalteromonas ulvae^{VP} Egan et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 107123. High-quality 16S rRNA sequence S000388567 (RDP), AF172987 (Genbank). N4Lid DOI: 10.1601/nm.2906

Pseudoalteromonas undina^{VP} (Chan et al. 1978) Gauthier et al. 1995. <== *Alteromonas undina* (basonym). Synonym links through N4Lid: 10.1601/ex.2827. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29660. High-quality 16S rRNA sequence S000000030 (RDP), X82140 (Genbank). N4Lid DOI: 10.1601/nm.2907

† *Alteromonas undina*^{AL} Chan et al. 1978. ==> *Pseudoalteromonas undina* (new combination). Synonym links through N4Lid: 10.1601/ex.2827. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29660. High-quality 16S rRNA sequence S000000030 (RDP), X82140 (Genbank). N4Lid DOI: 10.1601/nm.2827

Genus *Algicola*^{VP} Ivanova et al. 2004. N4Lid DOI: 10.1601/nm.8449

Algicola bacteriolytica^{VP} (Sawabe et al. 1998) Ivanova et al. 2004. <== *Pseudoalteromonas bacteriolytica* (basonym). Synonym links through N4Lid: 10.1601/ex.2882. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700679. High-quality 16S rRNA sequence S000014243 (RDP), D89929 (Genbank). N4Lid DOI: 10.1601/nm.8450

† *Pseudoalteromonas bacteriolytica*^{VP} Sawabe et al. 1998. ==> *Algicola bacteriolytica* (new combination). Synonym links through N4Lid: 10.1601/ex.2882. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700679. High-quality 16S rRNA sequence S000014243 (RDP), D89929 (Genbank). N4Lid DOI: 10.1601/nm.2882

Family *Psychromonadaceae*^{VP} Ivanova et al 2004. N4Lid 10.1601/nm.8929

Genus *Psychromonas*^{VP} Mountfort et al. 1998. GOLD ID: Gi00878. GCAT ID: 001396_GCAT. Entrez genome id: 13583. Sequenced strain: CNPT3 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2908

Psychromonas antarctica^{VP} corrig. Mountfort et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 10704. High-quality 16S rRNA sequence S000260768 (RDP), Y14697 (Genbank). N4Lid DOI: 10.1601/nm.2909

Psychromonas arctica^{VP} Groudieva et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14288. High-quality 16S rRNA sequence S000530711 (RDP), AF374385 (Genbank). N4Lid DOI: 10.1601/nm.2910

Psychromonas ingrahamii^{VP} Auman et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 51855. High-quality 16S rRNA sequence S000438408 (RDP), U73721 (Genbank). GOLD ID: Gc00478. GCAT ID: 000131_GCAT. Entrez genome id: 15761. Sequenced strain: 37 is from a non-type strain. Genome sequencing is

completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.10046

Psychromonas kaikoa^{VP} Nogi et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-353. High-quality 16S rRNA sequence S000383539 (RDP), AB052160 (Genbank). N4Lid DOI: 10.1601/nm.2911

Psychromonas marina^{VP} Kawasaki et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-724. High-quality 16S rRNA sequence S000382667 (RDP), AB023378 (Genbank). N4Lid DOI: 10.1601/nm.2912

Psychromonas profunda^{VP} Xu et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 11437. High-quality 16S rRNA sequence S000017755 (RDP), AJ416756 (Genbank). N4Lid DOI: 10.1601/nm.2913

Family *Shewanellaceae*^{VP} Ivanova et al 2004. N4Lid 10.1601/nm.8930

Genus *Shewanella*^{VP} MacDonell and Colwell 1986. GOLD ID: Gc00415. GCAT ID: 000195_GCAT. Entrez genome id: 13903. Sequenced strain: MR-7 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 5 (GOLD) 6 (NCBI). N4Lid DOI: 10.1601/nm.2914

Shewanella putrefaciens^{VP} (Lee et al. 1981) MacDonell and Colwell 1986. <== *Alteromonas putrefaciens* (basonym). Synonym links through N4Lid: 10.1601/ex.2824. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 8071. High-quality 16S rRNA sequence S000009307 (RDP), X82133 (Genbank). GOLD ID: Gi00554. GCAT ID: 001493_GCAT. Entrez genome id: 13392. Sequenced strain: 200 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 4 (GOLD) 4 (NCBI). N4Lid DOI: 10.1601/nm.2915

† *Alteromonas putrefaciens*^{VP} (ex Derby and Hammer) Lee et al. 1981. ==> *Shewanella putrefaciens* (new combination). Synonym links through N4Lid: 10.1601/ex.2824. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 8071. High-quality 16S rRNA sequence S000009307 (RDP), X82133 (Genbank). GOLD ID: Gi00554. GCAT ID: 001493_GCAT. Entrez genome id: 13392. Sequenced strain: 200 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 4 (GOLD) 4 (NCBI). N4Lid DOI: 10.1601/nm.2824

Shewanella abyss^{VP} Miyazaki et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17171. High-quality 16S rRNA sequence S000470142 (RDP), AB201475 (Genbank). N4Lid DOI: 10.1601/nm.10161

Shewanella affinis^{VP} Ivanova et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-642. High-quality 16S rRNA sequence S000368425 (RDP), AY351983 (Genbank). N4Lid 10.1601/nm.8841

Shewanella algae^{VP} corrig. Simidu et al. 1990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51192. High-quality 16S rRNA sequence S000386988 (RDP), AF005249 (Genbank). N4Lid DOI: 10.1601/nm.2916

Shewanella amazonensis^{VP} Venkateswaran et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700329. High-quality 16S rRNA sequence S000386987 (RDP), AF005248 (Genbank). GOLD ID: Gc00477. GCAT ID: 000132_GCAT. Entrez genome id: 13385. Sequenced strain: ATCC 700329 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2917

Shewanella aquimarina^{VP} Yoon et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12193. High-quality 16S rRNA sequence S000441388 (RDP), AY485225 (Genbank). N4Lid 10.1601/nm.8842

Shewanella baltica^{VP} Ziemke et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 9439. High-quality 16S rRNA sequence S000022438 (RDP), AJ000214 (Genbank). GOLD ID: Gi00551. GCAT ID: 001488_GCAT. Entrez genome id: 13386. Sequenced strain: OS155 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 3 (GOLD) 4 (NCBI). N4Lid DOI: 10.1601/nm.2918

Shewanella benthica^{VP} MacDonell and Colwell 1986. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43992. High-quality 16S rRNA sequence S000008558 (RDP), X82131 (Genbank). GOLD ID: Gi00885. GCAT ID: 001492_GCAT. Entrez

genome id: 13387. Sequenced strain: KT99 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2919

Shewanella colwelliana^{VP} (Weiner et al. 1988) Coyne et al. 1990. <== *Alteromonas colwelliana* (basonym). Synonym links through N4Lid: 10.1601/ex.2812. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 39565. N4Lid DOI: 10.1601/nm.2920

† *Alteromonas colwelliana*^{VP} Weiner et al. 1988. ==> *Shewanella colwelliana* (new combination). Synonym links through N4Lid: 10.1601/ex.2812. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 39565. N4Lid DOI: 10.1601/nm.2812

Shewanella decolorationis^{VP} Xu et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: IAM 15094. High-quality 16S rRNA sequence S000255073 (RDP), AJ609571 (Genbank). N4Lid 10.1601/nm.8843

Shewanella denitrificans^{VP} Brettar et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1090. High-quality 16S rRNA sequence S000123243 (RDP), AJ311964 (Genbank). GOLD ID: Gc00369. GCAT ID: 000241_GCAT. Entrez genome id: 13390. Sequenced strain: DSM 15013 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2921

Shewanella fidelis^{VP} Ivanova et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-318. High-quality 16S rRNA sequence S000393884 (RDP), AF420312 (Genbank). N4Lid DOI: 10.1601/nm.2922

Shewanella frigidimarina^{VP} Bowman et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700753. High-quality 16S rRNA sequence S000438619 (RDP), U85903 (Genbank). GOLD ID: Gc00426. GCAT ID: 000184_GCAT. Entrez genome id: 13391. Sequenced strain: NCIMB 400 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2923

Shewanella gaetbuli^{VP} Yoon et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 11814. High-quality 16S rRNA sequence S000400893 (RDP), AY190533 (Genbank). N4Lid DOI: 10.1601/nm.2924

Shewanella gelidimarina^{VP} Bowman et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700752. High-quality 16S rRNA sequence S000438623 (RDP), U85907 (Genbank). N4Lid DOI: 10.1601/nm.2925

Shewanella hafniensis^{VP} Satomi et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1207. High-quality 16S rRNA sequence S000483411 (RDP), AB205566 (Genbank). N4Lid 10.1601/nm.9849

Shewanella halifaxensis^{VP} Zhao et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17350. High-quality 16S rRNA sequence S000379104 (RDP), AY579751 (Genbank). GOLD ID: Gi01354. GCAT ID: 001771_GCAT. Sequenced strain: DSM 17350 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid 10.1601/nm.9847

Shewanella hanedai^{VP} (Jensen et al. 1981) MacDonell and Colwell 1986. <== *Alteromonas hanedai* (basonym). Synonym links through N4Lid: 10.1601/ex.2820. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33224. High-quality 16S rRNA sequence S000438824 (RDP), U91590 (Genbank). N4Lid DOI: 10.1601/nm.2926

† *Alteromonas hanedai*^{VP} Jensen et al. 1981. ==> *Shewanella hanedai* (new combination). Synonym links through N4Lid: 10.1601/ex.2820. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33224. High-quality 16S rRNA sequence S000438824 (RDP), U91590 (Genbank). N4Lid DOI: 10.1601/nm.2820

Shewanella japonica^{VP} Ivanova et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-316. High-quality 16S rRNA sequence S000388131 (RDP), AF145921 (Genbank). N4Lid DOI: 10.1601/nm.2927

- Shewanella kaireitica*^{VP} Miyazaki et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17170. High-quality 16S rRNA sequence S000124469 (RDP), AB094598 (Genbank). N4Lid DOI: 10.1601/nm.10162
- Shewanella livingstonensis*^{VP} Bozal et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 19866. High-quality 16S rRNA sequence S000128390 (RDP), AJ300834 (Genbank). N4Lid DOI: 10.1601/nm.2928
- Shewanella loihica*^{VP} Gao et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1088. High-quality 16S rRNA sequence S000646143 (RDP), DQ286387 (Genbank). GOLD ID: Gi00556. GCAT ID: 001497_GCAT. Entrez genome id: 13906. Sequenced strain: PV-4 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.10248
- Shewanella marinintestina*^{VP} Satomi et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 11558. High-quality 16S rRNA sequence S000123242 (RDP), AB081757 (Genbank). N4Lid DOI: 10.1601/nm.2929
- Shewanella marisflavi*^{VP} Yoon et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12192. High-quality 16S rRNA sequence S000441387 (RDP), AY485224 (Genbank). N4Lid 10.1601/nm.8844
- Shewanella morhuae*^{VP} Satomi et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1205. High-quality 16S rRNA sequence S000483421 (RDP), AB205576 (Genbank). N4Lid 10.1601/nm.9850
- Shewanella olleyana*^{VP} Skerratt et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 21437. High-quality 16S rRNA sequence S000498993 (RDP), AF295592 (Genbank). N4Lid DOI: 10.1601/nm.2930
- Shewanella oneidensis*^{VP} Venkateswaran et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700550. High-quality 16S rRNA sequence S000555190 (RDP). GOLD ID: Gc00105. GCAT ID: 000505_GCAT. Entrez genome id: 335. Sequenced strain: ATCC 700550 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2931
- Shewanella pacifica*^{VP} Ivanova et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 107849. High-quality 16S rRNA sequence S000395442 (RDP), AF500076 (Genbank). N4Lid 10.1601/nm.8845
- Shewanella pealeana*^{VP} Leonardo et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700345. High-quality 16S rRNA sequence S000387087 (RDP), AF011335 (Genbank). GOLD ID: Gi01355. GCAT ID: 001772_GCAT. Entrez genome id: 17415. Sequenced strain: ATCC 700345 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2932
- Shewanella pneumatophori*^{VP} Hirota et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 13187. High-quality 16S rRNA sequence S000543455 (RDP), AB204519 (Genbank). N4Lid 10.1601/nm.9728
- Shewanella profunda*^{VP} Toffin et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15900. High-quality 16S rRNA sequence S000462007 (RDP), AY445591 (Genbank). N4Lid 10.1601/nm.8846
- Shewanella sairae*^{VP} Satomi et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 11563. High-quality 16S rRNA sequence S000122852 (RDP), AB081762 (Genbank). N4Lid DOI: 10.1601/nm.2933
- Shewanella schlegeliana*^{VP} Satomi et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 11561. High-quality 16S rRNA sequence S000121712 (RDP), AB081760 (Genbank). N4Lid DOI: 10.1601/nm.2934
- Shewanella sediminis*^{VP} Zhao et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17055. High-quality 16S rRNA sequence S000573255 (RDP), AY579750 (Genbank). GOLD ID: Gi01356. GCAT ID: 001773_GCAT. Entrez genome id: 18789. Sequenced strain: DSM 17055 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid 10.1601/nm.9524

Shewanella surugensis^{VP} Miyazaki et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17177. High-quality 16S rRNA sequence S000125931 (RDP), AB094597 (Genbank). N4Lid DOI: 10.1601/nm.10160

Shewanella violacea^{VP} Nogi et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 106290. High-quality 16S rRNA sequence S000581882 (RDP), D21225 (Genbank). GOLD ID: Gi00557. GCAT ID: 001498_GCAT. Entrez genome id: 15729. Sequenced strain: DSS12 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2935

Shewanella waksmanii^{VP} Ivanova et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-643. High-quality 16S rRNA sequence S000399544 (RDP), AY170366 (Genbank). N4Lid DOI: 10.1601/nm.2936

Shewanella woodyi^{VP} Makemson et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51908. High-quality 16S rRNA sequence S000386899 (RDP), AF003549 (Genbank). GOLD ID: Gi01357. GCAT ID: 001774_GCAT. Entrez genome id: 17455. Sequenced strain: ATCC 51908 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2937

Family *Incertae sedis* 7^{NVP} N4Lid DOI: 10.1601/nm.2941

Genus *Agarivorans*^{VP} Kurahashi and Yokota 2004. N4Lid DOI: 10.1601/nm.8439

Agarivorans albus^{VP} Kurahashi and Yokota 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: IAM 14998. High-quality 16S rRNA sequence S000334627 (RDP), AB076561 (Genbank). N4Lid DOI: 10.1601/nm.8440

Genus *Alishewanella*^{VP} Fennesbech Vogel et al. 2000. N4Lid DOI: 10.1601/nm.2832

Alishewanella fetalis^{VP} Fennesbech Vogel et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-284. High-quality 16S rRNA sequence S000388106 (RDP), AF144407 (Genbank). N4Lid DOI: 10.1601/nm.2833

Genus *Marinobacter*^{VP} Gauthier et al. 1992. GOLD ID: Gi00851. GCAT ID: 001205_GCAT. Entrez genome id: 13586. Sequenced strain: F02 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 2 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2853

Marinobacter hydrocarbonoclasticus^{VP} Gauthier et al. 1992. Unified with *Pseudomonas nautica*, links through 10.1601/.ex.2854. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27132. High-quality 16S rRNA sequence S000382445 (RDP), AB019148 (Genbank). GOLD ID: Gc00504. GCAT ID: 000105_GCAT. Entrez genome id: 13239. Sequenced strain: ATCC 49840 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 2 (GOLD). N4Lid DOI: 10.1601/nm.2854

† *Pseudomonas nautica*^{AL} Baumann et al. 1972. Unified with *Marinobacter hydrocarbonoclasticus*, links through 10.1601/.ex.2854. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27132. High-quality 16S rRNA sequence S000382445 (RDP), AB019148 (Genbank). N4Lid DOI: 10.1601/nm.2651

† *Marinobacter aquaeolei*^{VP} Nguyen et al. 1999. ≈ *Marinobacter hydrocarbonoclasticus* (earlier heterotypic synonym), links through 10.1601/nm.2854. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700491. High-quality 16S rRNA sequence S000015722 (RDP), AJ000726 (Genbank). N4Lid DOI: 10.1601/nm.2855

Marinobacter algicola^{VP} Green et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16394. High-quality 16S rRNA sequence S000357102 (RDP), AY258110 (Genbank). GOLD ID: Gi01420. GCAT ID: 000884_GCAT. Sequenced strain: DG893 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid 10.1601/nm.9934

Marinobacter bryozorum^{VP} Romanenko et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15401. High-quality 16S rRNA sequence S000471328 (RDP), AJ609271 (Genbank). N4Lid 10.1601/nm.8687

Marinobacter daepoensis^{VP} Yoon et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16072. High-quality 16S rRNA sequence S000420325 (RDP), AY517633 (Genbank). N4Lid 10.1601/nm.8688

Marinobacter excellens^{VP} Gorshkova et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 107686. High-quality 16S rRNA sequence S000400179 (RDP), AY180101 (Genbank). N4Lid DOI: 10.1601/nm.2856

Marinobacter flavimaris^{VP} Yoon et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16070. High-quality 16S rRNA sequence S000420324 (RDP), AY517632 (Genbank). N4Lid 10.1601/nm.8689

Marinobacter lipolyticus^{VP} Martín et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15157. High-quality 16S rRNA sequence S000397920 (RDP), AY147906 (Genbank). N4Lid DOI: 10.1601/nm.2858

Marinobacter litoralis^{VP} Yoon et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 11547. High-quality 16S rRNA sequence S000429467 (RDP), AF479689 (Genbank). N4Lid DOI: 10.1601/nm.2857

Marinobacter lutaoensis^{VP} Shieh et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 11179. High-quality 16S rRNA sequence S000390728 (RDP), AF288157 (Genbank). N4Lid DOI: 10.1601/nm.2859

Marinobacter maritimus^{VP} Shivaji et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12521. High-quality 16S rRNA sequence S000570461 (RDP), AJ704395 (Genbank). N4Lid 10.1601/nm.9520

Marinobacter sediminum^{VP} Romanenko et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15400. High-quality 16S rRNA sequence S000471327 (RDP), AJ609270 (Genbank). N4Lid 10.1601/nm.8690

Genus *Marinobacterium*^{VP} González et al. 1997. N4Lid DOI: 10.1601/nm.2860

Marinobacterium georgiense^{VP} González et al. 1997. [Unified with *Pseudomonas iners*](#), links through 10.1601/ex.2861. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33635. High-quality 16S rRNA sequence S000021893 (RDP), AB021408 (Genbank). N4Lid DOI: 10.1601/nm.2861

† *Pseudomonas iners*^{AL} Iizuka and Komagata 1964. [Unified with *Marinobacterium georgiense*](#), links through 10.1601/ex.2861. Source of type material recommended for DOE sponsored genome sequencing by the JGI: IAM 1419. High-quality 16S rRNA sequence S000021893 (RDP), AB021408 (Genbank). N4Lid DOI: 10.1601/nm.2624

Marinobacterium jannaschii^{VP} (Bowditch et al. 1984) Satomi et al. 2002. [<== *Oceanospirillum jannaschii* \(basonym\)](#). Synonym links through N4Lid: 10.1601/ex.2447. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27135. High-quality 16S rRNA sequence S000427368 (RDP), AB006765 (Genbank). N4Lid DOI: 10.1601/nm.2862

† *Oceanospirillum jannaschii*^{VP} Bowditch et al. 1984. [==> *Marinobacterium jannaschii* \(new combination\)](#). Synonym links through N4Lid: 10.1601/ex.2447. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27135. High-quality 16S rRNA sequence S000427368 (RDP), AB006765 (Genbank). N4Lid DOI: 10.1601/nm.2447

Marinobacterium stanieri^{VP} (Baumann et al. 1983) Satomi et al. 2002. [<== *Pseudomonas stanieri* \(basonym\)](#). Synonym links through N4Lid: 10.1601/ex.2688. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27130. High-quality 16S rRNA sequence S000002971 (RDP), AB021367 (Genbank). N4Lid DOI: 10.1601/nm.2863

† *Pseudomonas stanieri*^{VP} Baumann et al. 1983. [==> *Marinobacterium stanieri* \(new combination\)](#). Synonym links through N4Lid: 10.1601/ex.2688. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27130. High-quality 16S rRNA sequence S000002971 (RDP), AB021367 (Genbank). N4Lid DOI: 10.1601/nm.2688

Genus *Marinimicrobium*^{VP} Lim et al. 2006. N4Lid 10.1601/nm.9953

Marinimicrobium agarilyticum^{VP} Lim et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16975. High-quality 16S rRNA sequence S000607508 (RDP), AY839869 (Genbank). N4Lid 10.1601/nm.9952

Marinimicrobium koreense^{VP} Lim et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16974. High-quality 16S rRNA sequence S000607509 (RDP), AY839870 (Genbank). N4Lid 10.1601/nm.9951

Genus *Microbulbifer*^{VP} González et al. 1997. N4Lid DOI: 10.1601/nm.2864

Microbulbifer hydrolyticus^{VP} González et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700072. High-quality 16S rRNA sequence S000255489 (RDP), AJ608704 (Genbank). N4Lid DOI: 10.1601/nm.2865

Microbulbifer elongatus^{VP} (Humm 1946) Yoon et al. 2003. <== *Pseudomonas elongata* (basonym). Synonym links through N4Lid: 10.1601/ex.2599. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 10144. High-quality 16S rRNA sequence S000395438 (RDP), AF500006 (Genbank). N4Lid DOI: 10.1601/nm.2866

† *Pseudomonas elongata*^{AL} Humm 1946. ==> *Microbulbifer elongatus* (new combination). Synonym links through N4Lid: 10.1601/ex.2599. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 10144. High-quality 16S rRNA sequence S000395438 (RDP), AF500006 (Genbank). N4Lid DOI: 10.1601/nm.2599

Microbulbifer maritimus^{VP} Yoon et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12187. High-quality 16S rRNA sequence S000368559 (RDP), AY377986 (Genbank). N4Lid 10.1601/nm.8704

Microbulbifer salipaludis^{VP} Yoon et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 11542. High-quality 16S rRNA sequence S000429466 (RDP), AF479688 (Genbank). N4Lid DOI: 10.1601/nm.2867

Genus *Salinimonas*^{VP} Jeon et al. 2005. N4Lid 10.1601/nm.8830

Salinimonas chungwhensis^{VP} Jeon et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16280. High-quality 16S rRNA sequence S000475019 (RDP), AY553295 (Genbank). N4Lid 10.1601/nm.8831

Genus *Teredinibacter*^{VP} Distel et al. 2002. N4Lid DOI: 10.1601/nm.2942

Teredinibacter turnerae^{VP} Distel et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 39867. High-quality 16S rRNA sequence S000484535 (RDP), AY028398 (Genbank). GOLD ID: Gi01476. GCAT ID: 001598_GCAT. Entrez genome id: 16649. Sequenced strain: ATCC 39867 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2943

Genus *Saccharophagus*^{VP} Ekborg et al. 2005. N4Lid 10.1601/nm.9528

Saccharophagus degradans^{VP} Ekborg et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43961. High-quality 16S rRNA sequence S000569987 (RDP), AF055269 (Genbank). GOLD ID: Gc00360. GCAT ID: 000250_GCAT. Entrez genome id: 316. Sequenced strain: 13180 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid 10.1601/nm.9527

Order "Vibrionales" N4Lid DOI: 10.1601/nm.2944

Family *Vibrionaceae*^{AL} Véron 1965. N4Lid DOI: 10.1601/nm.2945

Genus *Vibrio*^{AL} Pacini 1854. GOLD ID: Gi00912. GCAT ID: 001696_GCAT. Entrez genome id: 13616. Sequenced strain: MED222 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 3 (GOLD) 3 (NCBI). N4Lid DOI: 10.1601/nm.2946

Vibrio cholerae^{AL} Pacini 1854. ≈ *Vibrio albensis* (later heterotypic synonym), links through 10.1601/nm.2947. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14035. High-quality 16S rRNA sequence S000002810 (RDP), X74695 (Genbank). GOLD ID: Gc00034. GCAT ID: 000576_GCAT. Entrez genome id: 36. Sequenced strain: N16961, Biotype EITor is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 16 (GOLD) 15 (NCBI). N4Lid DOI: 10.1601/nm.2947

† *Vibrio albensis*^{AL} Lehmann and Neumann 1896. ≈ *Vibrio cholerae* (earlier heterotypic synonym), links through 10.1601/nm.2947. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14547. N4Lid DOI: 10.1601/nm.2951

Vibrio aerogenes^{VP} Shieh et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700797. High-quality 16S rRNA sequence S000387215 (RDP), AF124055 (Genbank). N4Lid DOI: 10.1601/nm.2948

Vibrio aestuarianus^{VP} Tison and Seidler 1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35048. High-quality 16S rRNA sequence S000013955 (RDP), X74689 (Genbank). N4Lid DOI: 10.1601/nm.2949

Vibrio agarivorans^{VP} Macián et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13756. High-quality 16S rRNA sequence S000003706 (RDP), AJ310647 (Genbank). N4Lid DOI: 10.1601/nm.2950

Vibrio anguillarum^{AL} Bergeman 1909. ==> *Listonella anguillarum* (new combination). Synonym links through N4Lid: 10.1601/ex.2953. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19264. High-quality 16S rRNA sequence S000127438 (RDP), X16895 (Genbank). N4Lid DOI: 10.1601/nm.2953

† *Listonella anguillarum*^{VP} corrig. (Bergeman 1909) MacDonell and Colwell 1986. <== *Vibrio anguillarum* (basonym). Synonym links through N4Lid: 10.1601/ex.2953. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19264. High-quality 16S rRNA sequence S000127438 (RDP), X16895 (Genbank). N4Lid DOI: 10.1601/nm.3025

Vibrio brasiliensis^{VP} Thompson et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 20546. High-quality 16S rRNA sequence S000089165 (RDP), AJ316172 (Genbank). N4Lid DOI: 10.1601/nm.2954

Vibrio alginolyticus^{AL} (Miyamoto et al. 1961) Sakazaki 1968. == *Beneckeia alginolytica* (earlier homotypic synonym), links through 10.1601/ex.2952. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17749. High-quality 16S rRNA sequence S000005172 (RDP), X74690 (Genbank). GOLD ID: Gi00908. GCAT ID: 001647_GCAT. Entrez genome id: 13571. Sequenced strain: 12G01 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2952

† *Beneckeia alginolytica*^{AL} (Miyamoto et al. 1961) Baumann et al. 1971. == *Vibrio alginolyticus* (later homotypic synonym), links through 10.1601/ex.2952. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17749. High-quality 16S rRNA sequence S000005172 (RDP), X74690 (Genbank). GOLD ID: Gi00908. GCAT ID: 001647_GCAT. Entrez genome id: 13571. Sequenced strain: 12G01 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid 10.1601/nm.9052

Vibrio calviensis^{VP} Denner et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-606. High-quality 16S rRNA sequence S000429252 (RDP), AF118020 (Genbank). N4Lid DOI: 10.1601/nm.2955

Vibrio campbellii^{VP} (Baumann et al. 1971) Baumann et al. 1981. <== *Beneckeia campbellii* (basonym). Synonym links through N4Lid: 10.1601/ex.2956. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25920. High-quality 16S rRNA sequence S000133874 (RDP), X56575 (Genbank). GOLD ID: Gi00910. GCAT ID: 001649_GCAT. Entrez genome id: 13564. Sequenced strain: AND4 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2956

† *Beneckeia campbellii*^{AL} Baumann et al. 1971. ==> *Vibrio campbellii* (new combination). Synonym links through N4Lid: 10.1601/ex.2956. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25920. High-quality 16S rRNA sequence S000133874 (RDP), X56575 (Genbank). GOLD ID: Gi00910. GCAT ID: 001649_GCAT. Entrez genome id: 13564. Sequenced strain: AND4 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid 10.1601/nm.9053

Vibrio chagasii^{VP} Thompson et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 21353. High-quality 16S rRNA sequence S000090477 (RDP), AJ316199 (Genbank). N4Lid DOI: 10.1601/nm.2958

Vibrio cincinnatiensis^{VP} Brayton et al. 1986. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35912. High-quality 16S rRNA sequence S000000837 (RDP), X74698 (Genbank). N4Lid DOI: 10.1601/nm.2959

Vibrio coralliilyticus^{VP} Ben-Haim et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-450. High-quality 16S rRNA sequence S000115720 (RDP), AJ440005 (Genbank). N4Lid DOI: 10.1601/nm.2960

- Vibrio crassostreae*^{VP} Faury et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108327. High-quality 16S rRNA sequence S000352429 (RDP), AJ582808 (Genbank). N4Lid 10.1601/nm.8899
- Vibrio cyclitrophicus*^{VP} corrig. Hedlund and Staley 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700982. High-quality 16S rRNA sequence S000437885 (RDP), U57919 (Genbank). N4Lid DOI: 10.1601/nm.2962
- Vibrio diabolicus*^{VP} Raguénès et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CNCM I-1629. High-quality 16S rRNA sequence S000129607 (RDP), X99762 (Genbank). N4Lid DOI: 10.1601/nm.2964
- Vibrio diazotrophicus*^{VP} Guerinot et al. 1982. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33466. High-quality 16S rRNA sequence S000010467 (RDP), X74701 (Genbank). N4Lid DOI: 10.1601/nm.2965
- Vibrio ezuræ*^{VP} Sawabe et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: IAM 15061. High-quality 16S rRNA sequence S000502133 (RDP), AY426980 (Genbank). N4Lid 10.1601/nm.8900
- Vibrio fischeri*^{AL} (Beijerinck 1889) Lehmann and Neumann 1896. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 7744. High-quality 16S rRNA sequence S000006317 (RDP), X74702 (Genbank). GOLD ID: Gc00257. GCAT ID: 000352_GCAT. Entrez genome id: 12986. Sequenced strain: ATCC 700601 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 2 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2966
- Vibrio fluvialis*^{VP} Lee et al. 1981. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33809. High-quality 16S rRNA sequence S000004811 (RDP), X74703 (Genbank). N4Lid DOI: 10.1601/nm.2967
- Vibrio fortis*^{VP} Thompson et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 21557. High-quality 16S rRNA sequence S000148136 (RDP), AJ514916 (Genbank). N4Lid DOI: 10.1601/nm.2968
- Vibrio furnissii*^{VP} Brenner et al. 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35016. High-quality 16S rRNA sequence S000007400 (RDP), X74704 (Genbank). N4Lid DOI: 10.1601/nm.2969
- Vibrio gallicus*^{VP} Sawabe et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 107863. High-quality 16S rRNA sequence S000357062 (RDP), AY257972 (Genbank). N4Lid 10.1601/nm.8901
- Vibrio gazogenes*^{VP} (Harwood et al. 1980) Baumann et al. 1981. <== *Beneckeia gazogenes* (basonym). Synonym links through N4Lid: 10.1601/ex.2970. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29988. High-quality 16S rRNA sequence S000005174 (RDP), X74705 (Genbank). N4Lid DOI: 10.1601/nm.2970
- † *Beneckeia gazogenes*^{VP} (ex Harwood 1978) Harwood et al. 1980. ==> *Vibrio gazogenes* (new combination). Synonym links through N4Lid: 10.1601/ex.2970. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29988. High-quality 16S rRNA sequence S000005174 (RDP), X74705 (Genbank). N4Lid 10.1601/nm.9090
- Vibrio gigantis*^{VP} Le Roux et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108656. High-quality 16S rRNA sequence S000149348 (RDP), AJ582810 (Genbank). N4Lid 10.1601/nm.9716
- Vibrio haliotocoli*^{VP} Sawabe et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700680. High-quality 16S rRNA sequence S000427291 (RDP), AB000390 (Genbank). N4Lid DOI: 10.1601/nm.2971
- Vibrio carchariae*^{VP} Grimes et al. 1985. ≈ *Vibrio harveyi* (earlier heterotypic synonym), links through 10.1601/nm.2972. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35084. N4Lid DOI: 10.1601/nm.2957
- Vibrio harveyi*^{VP} (Johnson and Shunk 1936) Baumann et al. 1981. <== *Lucibacterium harveyi* (basonym). Synonym links through N4Lid: 10.1601/ex.2972. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14126. High-quality 16S rRNA sequence S000008971 (RDP), X74706 (Genbank). GOLD ID: Gi01129. GCAT ID: 001690_GCAT. Sequenced strain: ATCC BAA-1116 is from a non-type strain. Genome

sequencing is incomplete. Number of genomes of this species sequenced 3 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2972

† *Benecke harveyi*^{AL} (Johnson and Shunk 1936) Reichelt and Baumann 1973. <== *Lucibacterium harveyi* (basonym). *Vibrio harveyi* (new combination). Synonym links through N4Lid: 10.1601/ex.2972. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14126. High-quality 16S rRNA sequence S000008971 (RDP), X74706 (Genbank). GOLD ID: Gi01129. GCAT ID: 001690_GCAT. Sequenced strain: ATCC BAA-1116 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 3 (GOLD) 1 (NCBI). N4Lid 10.1601/nm.9067

† *Lucibacterium harveyi*^{AL} (Johnson and Shunk 1936) Hendrie et al. 1970. ==> *Benecke harveyi* (new combination). Synonym links through N4Lid: 10.1601/ex.2972. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14126. High-quality 16S rRNA sequence S000008971 (RDP), X74706 (Genbank). GOLD ID: Gi01129. GCAT ID: 001690_GCAT. Sequenced strain: ATCC BAA-1116 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 3 (GOLD) 1 (NCBI). N4Lid 10.1601/nm.9048

Vibrio trachuri^{VP} Iwamoto et al. 1996. ≈ *Vibrio harveyi* (earlier heterotypic synonym), links through 10.1601/nm.2972. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 104774. N4Lid DOI: 10.1601/nm.3010

Vibrio hepatarius^{VP} Thompson et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 20362. High-quality 16S rRNA sequence S000145822 (RDP), AJ345063 (Genbank). N4Lid DOI: 10.1601/nm.2973

Vibrio hispanicus^{VP} Gomez-Gil et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 13240. High-quality 16S rRNA sequence S000404717 (RDP), AY254039 (Genbank). N4Lid DOI: 10.1601/nm.2974

Vibrio ichthyenteri^{VP} Ishimaru et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700023. N4Lid DOI: 10.1601/nm.2976

Vibrio kanaloae^{VP} Thompson et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 20539. High-quality 16S rRNA sequence S000089167 (RDP), AJ316193 (Genbank). N4Lid DOI: 10.1601/nm.2978

Vibrio lentus^{VP} Macián et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-539. High-quality 16S rRNA sequence S000005651 (RDP), AJ278881 (Genbank). GOLD ID: Gi00764. GCAT ID: 001692_GCAT. Entrez genome id: 15641. Sequenced strain: MEL32 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2979

Vibrio mediterranei^{VP} Pujalte and Garay 1986. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43341. High-quality 16S rRNA sequence S000009720 (RDP), X74710 (Genbank). N4Lid DOI: 10.1601/nm.2982

Vibrio metschnikovii^{AL} Gamaleia 1888. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700040. High-quality 16S rRNA sequence S000000839 (RDP), X74711 (Genbank). N4Lid DOI: 10.1601/nm.2983

Vibrio mimicus^{VP} Davis et al. 1982. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33653. High-quality 16S rRNA sequence S000002054 (RDP), X74713 (Genbank). N4Lid DOI: 10.1601/nm.2984

Vibrio mytili^{VP} Pujalte et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51288. N4Lid DOI: 10.1601/nm.2985

† *Benecke natriegens*^{AL} (Payne et al. 1961) Baumann et al. 1971. ==> *Vibrio natriegens* (new combination). Synonym links through N4Lid: 10.1601/ex.2986. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14048. High-quality 16S rRNA sequence S000007401 (RDP), X74714 (Genbank). N4Lid 10.1601/nm.9054

Vibrio natriegens^{VP} (Payne et al. 1961) Baumann et al. 1981. <== *Benecke natriegens* (basonym). Synonym links through N4Lid: 10.1601/ex.2986. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14048. High-quality 16S rRNA sequence S000007401 (RDP), X74714 (Genbank). N4Lid DOI: 10.1601/nm.2986

- Vibrio navarrensis*^{VP} Urdaci et al. 1991. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51183. High-quality 16S rRNA sequence S000011291 (RDP), X74715 (Genbank). N4Lid DOI: 10.1601/nm.2987
- Vibrio neonatus*^{VP} Sawabe et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: IAM 15060. N4Lid 10.1601/nm.8902
- Vibrio neptunius*^{VP} Thompson et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 20536. High-quality 16S rRNA sequence S000087945 (RDP), AJ316171 (Genbank). N4Lid DOI: 10.1601/nm.2988
- † *Beneckea nereis*^{VP} corrig. (ex Baumann et al. 1971) Harwood et al. 1980. ==> *Vibrio nereis* (new combination). Synonym links through N4Lid: 10.1601/ex.2989. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25917. High-quality 16S rRNA sequence S000001193 (RDP), X74716 (Genbank). N4Lid 10.1601/nm.9091
- Vibrio nereis*^{VP} (Harwood et al. 1980) Baumann et al. 1981. <== *Beneckea nereis* (basonym). Synonym links through N4Lid: 10.1601/ex.2989. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25917. High-quality 16S rRNA sequence S000001193 (RDP), X74716 (Genbank). N4Lid DOI: 10.1601/nm.2989
- † *Beneckea nigripulchritudo*^{AL} corrig. Baumann et al. 1971. ==> *Vibrio nigripulchritudo* (new combination). Synonym links through N4Lid: 10.1601/ex.2990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27043. High-quality 16S rRNA sequence S000021486 (RDP), X74717 (Genbank). N4Lid 10.1601/nm.9055
- Vibrio nigripulchritudo*^{VP} (Baumann et al. 1971) Baumann et al. 1981. <== *Beneckea nigripulchritudo* (basonym). Synonym links through N4Lid: 10.1601/ex.2990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27043. High-quality 16S rRNA sequence S000021486 (RDP), X74717 (Genbank). N4Lid DOI: 10.1601/nm.2990
- Vibrio ordalii*^{VP} Schiewe et al. 1982. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33509. High-quality 16S rRNA sequence S000009721 (RDP), X74718 (Genbank). N4Lid DOI: 10.1601/nm.2991
- Vibrio orientalis*^{VP} Yang et al. 1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33934. High-quality 16S rRNA sequence S000007051 (RDP), X74719 (Genbank). N4Lid DOI: 10.1601/nm.2992
- Vibrio pacinii*^{VP} Gomez-Gil et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 19999. High-quality 16S rRNA sequence S000446623 (RDP), AJ316194 (Genbank). N4Lid DOI: 10.1601/nm.2993
- Vibrio parahaemolyticus*^{AL} (Fujino et al. 1951) Sakazaki et al. 1963. == *Beneckea parahaemolytica* (earlier homotypic synonym), links through 10.1601/ex.2994. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17802. High-quality 16S rRNA sequence S000013957 (RDP), X74720 (Genbank). GOLD ID: Gc00124. GCAT ID: 000486_GCAT. Entrez genome id: 360. Sequenced strain: RIMD 2210633 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 4 (GOLD) 2 (NCBI). N4Lid DOI: 10.1601/nm.2994
- † *Beneckea parahaemolytica*^{AL} (Fujino et al. 1951) Baumann et al. 1971. == *Vibrio parahaemolyticus* (later homotypic synonym), links through 10.1601/ex.2994. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17802. High-quality 16S rRNA sequence S000013957 (RDP), X74720 (Genbank). GOLD ID: Gc00124. GCAT ID: 000486_GCAT. Entrez genome id: 360. Sequenced strain: RIMD 2210633 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 4 (GOLD) 2 (NCBI). N4Lid 10.1601/nm.9056
- Vibrio pectenicida*^{VP} Lambert et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700783. High-quality 16S rRNA sequence S000015429 (RDP), Y13830 (Genbank). N4Lid DOI: 10.1601/nm.2995
- Vibrio pelagius*^{VP} (Baumann et al. 1971) Baumann et al. 1981. <== *Beneckea pelagia* (basonym). *Listonella pelagia* (new combination). Synonym links through N4Lid: 10.1601/ex.2996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25916. High-quality 16S rRNA sequence S000007402 (RDP), X74722 (Genbank). N4Lid DOI: 10.1601/nm.2996

- † *Beneckeia pelagia*^{AL} Baumann et al. 1971. ==> *Vibrio pelagius* (new combination). Synonym links through N4Lid: 10.1601/ex.2996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25916. High-quality 16S rRNA sequence S000007402 (RDP), X74722 (Genbank). N4Lid 10.1601/nm.9057
- † *Listonella pelagia*^{VP} (Baumann et al. 1971) MacDonell and Colwell 1986. <== *Beneckeia pelagia* (basonym). Synonym links through N4Lid: 10.1601/ex.2996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25916. High-quality 16S rRNA sequence S000007402 (RDP), X74722 (Genbank). N4Lid DOI: 10.1601/nm.3027
- Vibrio penaeicida*^{VP} Ishimaru et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51841. N4Lid DOI: 10.1601/nm.2997
- Vibrio pomeroyi*^{VP} Thompson et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 20537. High-quality 16S rRNA sequence S000133518 (RDP), AJ491290 (Genbank). N4Lid DOI: 10.1601/nm.2998
- Vibrio ponticus*^{VP} Macián et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16217. High-quality 16S rRNA sequence S000447383 (RDP), AJ630103 (Genbank). N4Lid 10.1601/nm.8903
- † *Aeromonas hydrophila subsp. proteolytica*^{AL} (Merkel et al. 1964) Schubert 1969. ==> *Vibrio proteolyticus* (new combination). Synonym links through N4Lid: 10.1601/ex.3048. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15338. High-quality 16S rRNA sequence S000011660 (RDP), X74723 (Genbank). N4Lid DOI: 10.1601/nm.3048
- Vibrio proteolyticus*^{VP} (Merkel et al. 1964) Baumann et al. 1982. <== *Aeromonas hydrophila subsp. proteolytica* (basonym). Synonym links through N4Lid: 10.1601/ex.3048. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15338. High-quality 16S rRNA sequence S000011660 (RDP), X74723 (Genbank). N4Lid DOI: 10.1601/nm.2999
- Vibrio rotiferianus*^{VP} Gomez-Gil et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15116. High-quality 16S rRNA sequence S000099314 (RDP), AJ316187 (Genbank). N4Lid 10.1601/nm.9233
- Vibrio ruber*^{VP} Shieh et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 11486. High-quality 16S rRNA sequence S000394519 (RDP), AF462458 (Genbank). N4Lid DOI: 10.1601/nm.3000
- Vibrio rumoiensis*^{VP} Yumoto et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: FERM P-14531. High-quality 16S rRNA sequence S000382167 (RDP), AB013297 (Genbank). N4Lid DOI: 10.1601/nm.3001
- Vibrio salmonicida*^{VP} Egidius et al. 1986. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43839. High-quality 16S rRNA sequence S000007404 (RDP), X70643 (Genbank). GOLD ID: Gi00679. GCAT ID: 001693_GCAT. Entrez genome id: 13651. Sequenced strain: LFI1238 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3002
- Vibrio scophthalmi*^{VP} Cerdà-Cuéllar et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 105211. High-quality 16S rRNA sequence S000437669 (RDP), U46579 (Genbank). N4Lid DOI: 10.1601/nm.3003
- Vibrio shilonii*^{VP} corrig. Kushmaro et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-91. High-quality 16S rRNA sequence S000001880 (RDP), AF007115 (Genbank). GOLD ID: Gi01413. GCAT ID: 000877_GCAT. Sequenced strain: ATCC BAA-91 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.3004
- † *Beneckeia splendida*^{AL} (Beijerinck 1900) Reichelt et al. 1979. ==> *Vibrio splendidus* (new combination). Synonym links through N4Lid: 10.1601/ex.3005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33125. High-quality 16S rRNA sequence S000007850 (RDP), X74724 (Genbank). GOLD ID: Gi00911. GCAT ID: 001694_GCAT. Entrez genome id: 13568. Sequenced strain: 12B01 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 2 (GOLD) 1 (NCBI). N4Lid 10.1601/nm.9077

Vibrio splendidus^{VP} (Beijerinck 1900) Baumann et al. 1981. <== *Beneckeia splendida* (basonym). Synonym links through N4Lid: 10.1601/ex.3005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33125. High-quality 16S rRNA sequence S000007850 (RDP), X74724 (Genbank). GOLD ID: Gi00911. GCAT ID: 001694_GCAT. Entrez genome id: 13568. Sequenced strain: 12B01 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 2 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3005

Vibrio superstes^{VP} Hayashi et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: IAM 15009. High-quality 16S rRNA sequence S000398531 (RDP), AY155585 (Genbank). N4Lid DOI: 10.1601/nm.3007

Vibrio tapetis^{VP} Borrego et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700075. High-quality 16S rRNA sequence S000013501 (RDP), Y08430 (Genbank). N4Lid DOI: 10.1601/nm.3008

Vibrio tasmaniensis^{VP} Thompson et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 20012. High-quality 16S rRNA sequence S000247799 (RDP), AJ514912 (Genbank). N4Lid DOI: 10.1601/nm.3009

Vibrio tubiashii^{VP} Hada et al. 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19109. High-quality 16S rRNA sequence S000005176 (RDP), X74725 (Genbank). N4Lid DOI: 10.1601/nm.3011

Moritella viscosa^{VP} (Lunder et al. 2000) Benediktsdóttir et al. 2000. <== *Vibrio viscosus* (basonym). Synonym links through N4Lid: 10.1601/ex.3012. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-105. High-quality 16S rRNA sequence S000013918 (RDP), Y17574 (Genbank). N4Lid DOI: 10.1601/nm.2873

† *Vibrio viscosus*^{VP} Lunder et al. 2000. ==> *Moritella viscosa* (new combination). Synonym links through N4Lid: 10.1601/ex.3012. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-105. High-quality 16S rRNA sequence S000013918 (RDP), Y17574 (Genbank). N4Lid DOI: 10.1601/nm.3012

† *Beneckeia vulnifica*^{AL} Reichelt et al. 1979. ==> *Vibrio vulnificus* (new combination). Synonym links through N4Lid: 10.1601/ex.3013. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27562. High-quality 16S rRNA sequence S000013154 (RDP), X74726 (Genbank). GOLD ID: Gc00115. GCAT ID: 000495_GCAT. Entrez genome id: 349. Sequenced strain: CMCP6 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 2 (GOLD) 2 (NCBI). N4Lid DOI: 10.1601/nm.9078

Vibrio vulnificus^{VP} (Reichelt et al. 1979) Farmer 1980. <== *Beneckeia vulnifica* (basonym). Synonym links through N4Lid: 10.1601/ex.3013. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27562. High-quality 16S rRNA sequence S000013154 (RDP), X74726 (Genbank). GOLD ID: Gc00115. GCAT ID: 000495_GCAT. Entrez genome id: 349. Sequenced strain: CMCP6 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 2 (GOLD) 2 (NCBI). N4Lid DOI: 10.1601/nm.3013

Vibrio wodanis^{VP} Lunder et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-104. High-quality 16S rRNA sequence S000008973 (RDP), AJ132227 (Genbank). N4Lid DOI: 10.1601/nm.3014

Vibrio xuii^{VP} Thompson et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 21346. High-quality 16S rRNA sequence S000089166 (RDP), AJ316181 (Genbank). N4Lid DOI: 10.1601/nm.3015

Genus † *Beneckeia*^{AL} Campbell 1957. Unified with *Vibrio*, links through 10.1601/nm.6604. N4Lid DOI: 10.1601/nm.8999

Genus † *Listonella*^{VP} MacDonell and Colwell 1986. N4Lid DOI: 10.1601/nm.3024

Genus † *Lucibacterium*^{AL} Hendrie et al. 1970. Unified with *Vibrio*, links through 10.1601/nm.6604. N4Lid DOI: 10.1601/nm.9047

Genus *Allomonas*^{VP} Kalina et al. 1984. N4Lid DOI: 10.1601/nm.3016

Allomonas enterica^{VP} Kalina et al. 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35843. High-quality 16S rRNA sequence S000118794 (RDP), AJ550855 (Genbank). N4Lid DOI: 10.1601/nm.3017

Genus *Catenococcus* ^{VP} Sorokin 1994. N4Lid DOI: 10.1601/nm.3018

Catenococcus thiocyli ^{VP} corrig. Sorokin 1994. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51228. N4Lid DOI: 10.1601/nm.3019

Genus *Enterovibrio* ^{VP} Thompson et al. 2002. N4Lid DOI: 10.1601/nm.3020

Enterovibrio norvegicus ^{VP} Thompson et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 19839. N4Lid DOI: 10.1601/nm.3021

Enterovibrio coralii ^{VP} Thompson et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22228. High-quality 16S rRNA sequence S000472244 (RDP), AJ842343 (Genbank). N4Lid 10.1601/nm.9369

Genus *Grimontia* ^{VP} Thompson et al. 2003. N4Lid DOI: 10.1601/nm.3022

Grimontia hollisae ^{VP} (Hickman et al. 1982) Thompson et al. 2003. <== *Vibrio hollisae* (basonym). Synonym links through N4Lid: 10.1601/ex.2975. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33564. High-quality 16S rRNA sequence S000249444 (RDP), AJ514909 (Genbank). N4Lid DOI: 10.1601/nm.3023

† *Vibrio hollisae* ^{VP} Hickman et al. 1982. ==> *Grimontia hollisae* (new combination). Synonym links through N4Lid: 10.1601/ex.2975. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33564. High-quality 16S rRNA sequence S000249444 (RDP), AJ514909 (Genbank). N4Lid DOI: 10.1601/nm.2975

Genus *Photobacterium* ^{AL} Beijerinck 1889. GOLD ID: Gi00870. GCAT ID: 001361_GCAT. Entrez genome id: 13566. Sequenced strain: SKA34 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3028

Photobacterium phosphoreum ^{AL} (Cohn 1878) Beijerinck 1889. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11040. High-quality 16S rRNA sequence S000003552 (RDP), X74687 (Genbank). N4Lid DOI: 10.1601/nm.3029

Photobacterium angustum ^{AL} Reichelt et al. 1979. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25915. High-quality 16S rRNA sequence S000009276 (RDP), X74685 (Genbank). N4Lid DOI: 10.1601/nm.3030

Photobacterium aplysiae ^{VP} Seo et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12948. High-quality 16S rRNA sequence S000444522 (RDP), AY781193 (Genbank). N4Lid 10.1601/nm.9722

Photobacterium damsela subsp. *damsela* ^{VP} corrig. (Love et al. 1982) Smith et al. 1991. <== *Vibrio damsela* (basonym). Synonym links through N4Lid: 10.1601/ex.2963. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33539. High-quality 16S rRNA sequence S000019693 (RDP), X74700 (Genbank). N4Lid DOI: 10.1601/nm.3031

† *Listonella damsela* ^{VP} (Love et al. 1982) MacDonell and Colwell 1986. <== *Vibrio damsela* (basonym). *Photobacterium damsela* subsp. *damsela* (new combination). Synonym links through N4Lid: 10.1601/ex.2963. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33539. High-quality 16S rRNA sequence S000019693 (RDP), X74700 (Genbank). N4Lid DOI: 10.1601/nm.3026

† *Vibrio damsela* ^{VP} Love et al. 1982. ==> *Listonella damsela* (new combination). Synonym links through N4Lid: 10.1601/ex.2963. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33539. High-quality 16S rRNA sequence S000019693 (RDP), X74700 (Genbank). N4Lid DOI: 10.1601/nm.2963

† *Photobacterium histaminum* ^{VP} Okuzumi et al. 1994. ≈ *Photobacterium damsela* subsp. *damsela* (earlier heterotypic synonym), links through 10.1601/nm.3031. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ACC 33539. High-quality 16S rRNA sequence S000018936 (RDP), AB032015 (Genbank). N4Lid DOI: 10.1601/nm.3034

Photobacterium damsela subsp. *piscicida* ^{VP} corrig. (ex Janssen and Surgalla 1968) Gauthier et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51736. N4Lid DOI: 10.1601/nm.3032

Photobacterium fischeri ^{AL} (Beijerinck 1889) Reichelt and Baumann 1973. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 7744. N4Lid DOI: 10.1601/nm.3033

Photobacterium frigidophilum^{VP} Seo et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12947. High-quality 16S rRNA sequence S000273874 (RDP), AY538749 (Genbank). N4Lid 10.1601/nm.9536

Photobacterium ganghwense^{VP} Park et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12487. High-quality 16S rRNA sequence S000515755 (RDP), AY960847 (Genbank). N4Lid 10.1601/nm.9988

Photobacterium halotolerans^{VP} Rivas et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22194. High-quality 16S rRNA sequence S000412954 (RDP), AY551089 (Genbank). N4Lid DOI: 10.1601/nm.10049

Photobacterium iliopiscarium^{VP} (Onarheim et al. 1995) Urakawa et al. 1999. <== *Vibrio iliopiscarius* (basonym). Synonym links through N4Lid: 10.1601/ex.2977. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51760. High-quality 16S rRNA sequence S000381601 (RDP), AB000278 (Genbank). N4Lid DOI: 10.1601/nm.3035

† *Vibrio iliopiscarius*^{VP} Onarheim et al. 1995. ==> *Photobacterium iliopiscarium* (new combination). Synonym links through N4Lid: 10.1601/ex.2977. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51760. High-quality 16S rRNA sequence S000381601 (RDP), AB000278 (Genbank). N4Lid DOI: 10.1601/nm.2977

Photobacterium indicum^{VP} (Johnson and Weisrock 1969) Ivanova et al. 2004. <== *Hyphomicrobium indicum* (basonym). *Photobacterium indicum* (new combination). Synonym links through N4Lid: 10.1601/ex.1522. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19614. High-quality 16S rRNA sequence S000382385 (RDP), AB016982 (Genbank). N4Lid 10.1601/nm.8774

† *Hyphomicrobium indicum*^{AL} Johnson and Weisrock 1969. ==> *Photobacterium indicum* (new combination). Synonym links through N4Lid: 10.1601/ex.1522. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19614. High-quality 16S rRNA sequence S000382385 (RDP), AB016982 (Genbank). N4Lid DOI: 10.1601/nm.1522

Photobacterium leiognathi^{AL} Boisvert et al. 1967. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25521. High-quality 16S rRNA sequence S000000445 (RDP), X74686 (Genbank). N4Lid DOI: 10.1601/nm.3036

Photobacterium lipolyticum^{VP} Yoon et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16190. High-quality 16S rRNA sequence S000475021 (RDP), AY554009 (Genbank). N4Lid 10.1601/nm.8776

Photobacterium logei^{VP} (ex Bang et al. 1978) Harwood et al. 1980. ==> *Vibrio logei* (new combination). Synonym links through N4Lid: 10.1601/ex.3037. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29985. N4Lid DOI: 10.1601/nm.3037

† *Vibrio logei*^{VP} (Harwood et al. 1980) Baumann et al. 1981. <== *Photobacterium logei* (basonym). Synonym links through N4Lid: 10.1601/ex.3037. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29985. N4Lid DOI: 10.1601/nm.2980

Photobacterium profundum^{VP} Nogi et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 106289. High-quality 16S rRNA sequence S000540374 (RDP). GOLD ID: Gc00227. GCAT ID: 000383_GCAT. Entrez genome id: 13128. Sequenced strain: SS9 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 2 (GOLD) 2 (NCBI). N4Lid DOI: 10.1601/nm.3038

Photobacterium rosenbergii^{VP} Thompson et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22223. High-quality 16S rRNA sequence S000472247 (RDP), AJ842346 (Genbank). N4Lid 10.1601/nm.9368

Genus *Salinivibrio*^{VP} Mellado et al. 1996. N4Lid DOI: 10.1601/nm.3039

Salinivibrio costicola subsp. costicola^{VP} (Smith 1938) Mellado et al. 1996. <== *Vibrio costicola* (basonym). Synonym links through N4Lid: 10.1601/ex.2961. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33508. High-quality 16S rRNA sequence S000007050 (RDP), X74699 (Genbank). N4Lid DOI: 10.1601/nm.3040

† *Vibrio costicola*^{AL} Smith 1938. ==> *Salinivibrio costicola subsp. costicola* (new combination). Synonym links through N4Lid: 10.1601/ex.2961. Source of type material

recommended for DOE sponsored genome sequencing by the JGI: ATCC 33508. High-quality 16S rRNA sequence S000007050 (RDP), X74699 (Genbank). N4Lid DOI: 10.1601/nm.2961

Salinivibrio costicola subsp. alcaliphilus^{VP} Romano et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-952. High-quality 16S rRNA sequence S000539534 (RDP), AJ640132 (Genbank). N4Lid 10.1601/nm.9403

Salinivibrio costicola subsp. vallismortis^{VP} Huang et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 8285. High-quality 16S rRNA sequence S000428186 (RDP), AF057016 (Genbank). N4Lid DOI: 10.1601/nm.3041

Order Aeromonadales^{VP} Martin-Carnahan and Joseph 2005. N4Lid DOI: 10.1601/nm.3042

Family Aeromonadaceae^{VP} Colwell et al 1986. N4Lid DOI: 10.1601/nm.3043

Genus Aeromonas^{AL} Stanier 1943. N4Lid DOI: 10.1601/nm.3044

Aeromonas hydrophila subsp. hydrophila^{AL} (Chester 1901) Stanier 1943. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 7966. High-quality 16S rRNA sequence S000016358 (RDP), X74677 (Genbank). GOLD ID: Gc00456. GCAT ID: 000153_GCAT. Entrez genome id: 16697. Sequenced strain: CDC 359-60 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3045

Aeromonas hydrophila subsp. anaerogenes^{AL} Schubert 1964. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15467. N4Lid DOI: 10.1601/nm.3046

Aeromonas hydrophila subsp. dhakensis^{VP} Huys et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 45377. High-quality 16S rRNA sequence S000690544 (RDP), AM262157 (Genbank). N4Lid DOI: 10.1601/nm.3047

Aeromonas hydrophila subsp. ranae^{VP} Huys et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 46211. High-quality 16S rRNA sequence S000133754 (RDP), AJ508766 (Genbank). N4Lid DOI: 10.1601/nm.3049

Aeromonas allosaccharophila^{VP} Martinez-Murcia et al. 1992. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51208. High-quality 16S rRNA sequence S000380944 (RDP), S39232 (Genbank). N4Lid DOI: 10.1601/nm.3050

Aeromonas bestiarum^{VP} Ali et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51108. High-quality 16S rRNA sequence S000142049 (RDP), X60406 (Genbank). N4Lid DOI: 10.1601/nm.3051

Aeromonas caviae^{VP} (ex Eddy 1962) Popoff 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15467. N4Lid DOI: 10.1601/nm.3052

Aeromonas encheleia^{VP} Esteve et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51929. High-quality 16S rRNA sequence S000126610 (RDP), AJ458409 (Genbank). N4Lid DOI: 10.1601/nm.3054

Aeromonas enteropelogenes^{VP} Schubert et al. 1991. *≈ Aeromonas trota* (later heterotypic synonym), links through 10.1601/nm.3055. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49803. High-quality 16S rRNA sequence S000145138 (RDP), X60415 (Genbank). N4Lid DOI: 10.1601/nm.3055

† *Aeromonas trota*^{VP} Carnahan et al. 1992. *≈ Aeromonas enteropelogenes* (earlier heterotypic synonym), links through 10.1601/nm.3055. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49657. High-quality 16S rRNA sequence S000145138 (RDP), X60415 (Genbank). N4Lid DOI: 10.1601/nm.3071

Aeromonas eucrenophila^{VP} Schubert and Hegazi 1988. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23309. High-quality 16S rRNA sequence S000005772 (RDP), X74675 (Genbank). N4Lid DOI: 10.1601/nm.3056

Aeromonas ichthiosmia^{VP} Schubert et al. 1991. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ACC 35624. High-quality 16S rRNA sequence S000004272 (RDP), X74684 (Genbank). N4Lid DOI: 10.1601/nm.3057

Aeromonas jandaei^{VP} Carnahan et al. 1992. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49568. High-quality 16S rRNA sequence S000008085 (RDP), X74678 (Genbank). N4Lid DOI: 10.1601/nm.3058

Aeromonas media^{VP} Allen et al. 1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33907. High-quality 16S rRNA sequence S000005056 (RDP), X74679 (Genbank). N4Lid DOI: 10.1601/nm.3059

Aeromonas molluscorum^{VP} Miñana-Galbis et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22214. High-quality 16S rRNA sequence S000485621 (RDP), AY532690 (Genbank). N4Lid DOI: 10.1601/nm.8438

Aeromonas popoffii^{VP} Huys et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-243. High-quality 16S rRNA sequence S000012675 (RDP), AJ224308 (Genbank). N4Lid DOI: 10.1601/nm.3060

Aeromonas punctata subsp. punctata^{AL} (Zimmermann 1890) Snieszko 1957. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15468. High-quality 16S rRNA sequence S000021367 (RDP), X74674 (Genbank). N4Lid DOI: 10.1601/nm.3061

Aeromonas punctata subsp. caviae^{AL} (Scherago 1936) Schubert 1964. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15468. N4Lid DOI: 10.1601/nm.3062

Aeromonas salmonicida subsp. salmonicida^{AL} (Lehmann and Neumann 1896) Griffin et al. 1953. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 10801. High-quality 16S rRNA sequence S000000394 (RDP), X74680 (Genbank). GOLD ID: Gi00019. GCAT ID: 000687_GCAT. Entrez genome id: 13002. Sequenced strain: A449 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3063

Aeromonas salmonicida subsp. achromogenes^{AL} (Smith 1963) Schubert 1967. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33659. N4Lid DOI: 10.1601/nm.3064

Aeromonas salmonicida subsp. masoucida^{AL} Kimura 1969. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27013. N4Lid DOI: 10.1601/nm.3065

Aeromonas salmonicida subsp. pectinolytica^{VP} Pavan et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 12609. High-quality 16S rRNA sequence S000387867 (RDP), AF134065 (Genbank). N4Lid DOI: 10.1601/nm.3066

Aeromonas salmonicida subsp. smithia^{VP} Austin et al. 1989. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49393. High-quality 16S rRNA sequence S000009984 (RDP), AJ009859 (Genbank). N4Lid DOI: 10.1601/nm.3067

Aeromonas schubertii^{VP} Hickman-Brenner et al. 1989. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43700. High-quality 16S rRNA sequence S000001937 (RDP), X74682 (Genbank). N4Lid DOI: 10.1601/nm.3068

Aeromonas sharmata^{VP} Saha and Chakrabarti 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17445. High-quality 16S rRNA sequence S000555463 (RDP), DQ013306 (Genbank). N4Lid DOI: 10.1601/nm.10247

Aeromonas sobria^{VP} Popoff and Véron 1981. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43979. High-quality 16S rRNA sequence S000014207 (RDP), X74683 (Genbank). N4Lid DOI: 10.1601/nm.3069

Aeromonas simiae^{VP} Harf-Monteil et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 47378. High-quality 16S rRNA sequence S000276015 (RDP), AJ536821 (Genbank). N4Lid DOI: 10.1601/nm.3070

Aeromonas veronii^{VP} Hickman-Brenner et al. 1988. ≈ *Aeromonas culicicola* (later heterotypic synonym), links through 10.1601/nm.3072. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35624. High-quality 16S rRNA sequence S000004272 (RDP), X74684 (Genbank). N4Lid DOI: 10.1601/nm.3072

† *Aeromonas culicicola*^{VP} Pidiyar et al. 2002. ≈ *Aeromonas veronii* (earlier heterotypic synonym), links through 10.1601/nm.3072. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCIM 5147. High-quality 16S rRNA sequence S000388555 (RDP), AF170914 (Genbank). N4Lid DOI: 10.1601/nm.3053

Genus *Oceanimonas*^{VP} corrig. Brown et al. 2001. N4Lid DOI: 10.1601/nm.3073

Oceanimonas doudoroffii^{VP} corrig. (Baumann et al. 1972) Brown et al. 2001. <== *Pseudomonas doudoroffii* (basonym). Synonym links through N4Lid: 10.1601/ex.2597. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27123. High-quality 16S rRNA sequence S000382455 (RDP), AB019390 (Genbank). N4Lid DOI: 10.1601/nm.3074

† *Pseudomonas doudoroffii*^{AL} Baumann et al. 1972. ==> *Oceanimonas doudoroffii* (new combination). Synonym links through N4Lid: 10.1601/ex.2597. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27123. High-quality 16S rRNA sequence S000382455 (RDP), AB019390 (Genbank). N4Lid DOI: 10.1601/nm.2597

Oceanimonas baumannii^{VP} corrig. Brown et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700832. High-quality 16S rRNA sequence S000388433 (RDP), AF168367 (Genbank). N4Lid DOI: 10.1601/nm.3075

Oceanimonas smirnovii^{VP} Ivanova et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-899. High-quality 16S rRNA sequence S000503167 (RDP), AY538714 (Genbank). N4Lid DOI: 10.1601/nm.9401

Oceanisphaera donghaensis^{VP} Park et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17589. High-quality 16S rRNA sequence S000605330 (RDP), DQ190441 (Genbank). N4Lid DOI: 10.1601/nm.10000

Genus *Oceanisphaera*^{VP} Romanenko et al. 2003. N4Lid DOI: 10.1601/nm.3076

Oceanisphaera litoralis^{VP} Romanenko et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15406. High-quality 16S rRNA sequence S000251387 (RDP), AJ550470 (Genbank). N4Lid DOI: 10.1601/nm.3077

Genus *Tolomonas*^{VP} Fischer-Romero et al. 1996. N4Lid DOI: 10.1601/nm.3078

Tolomonas auensis^{VP} Fischer-Romero et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 9187. High-quality 16S rRNA sequence S000003181 (RDP), X92889 (Genbank). N4Lid DOI: 10.1601/nm.3079

Genus *Zobellella*^{VP} Lin and Shieh 2006. N4Lid DOI: 10.1601/nm.10103

Zobellella denitrificans^{VP} Lin and Shieh 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 13380. High-quality 16S rRNA sequence S000613050 (RDP), DQ195675 (Genbank). N4Lid DOI: 10.1601/nm.10101

Zobellella taiwanensis^{VP} Lin and Shieh 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 13381. High-quality 16S rRNA sequence S000613051 (RDP), DQ195676 (Genbank). N4Lid DOI: 10.1601/nm.10102

Family *Succinivibrionaceae*^{VP} Hippe et al 1999. N4Lid DOI: 10.1601/nm.3080

Genus *Succinivibrio*^{AL} Bryant and Small 1956. N4Lid DOI: 10.1601/nm.3081

Succinivibrio dextrinosolvens^{AL} Bryant and Small 1956. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19716. High-quality 16S rRNA sequence S000019318 (RDP), Y17600 (Genbank). N4Lid DOI: 10.1601/nm.3082

Genus *Anaerobiospirillum*^{AL} Davis et al. 1976. N4Lid DOI: 10.1601/nm.3083

Anaerobiospirillum succiniciproducens^{AL} Davis et al. 1976. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29305. High-quality 16S rRNA sequence S000438902 (RDP), U96412 (Genbank). N4Lid DOI: 10.1601/nm.3084

Anaerobiospirillum thomasii^{VP} Malnick 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700432. High-quality 16S rRNA sequence S000018776 (RDP), AJ420985 (Genbank). N4Lid DOI: 10.1601/nm.3085

Genus *Ruminobacter*^{VP} (ex Sijpesteijn 1949) Stackebrandt and Hippe 1987. N4Lid DOI: 10.1601/nm.3086

Ruminobacter amylophilus^{VP} (Hamlin and Hungate 1956) Stackebrandt and Hippe 1987. <== *Bacteroides amylophilus* (basonym). Synonym links through N4Lid: 10.1601/ex.7934. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29744. High-quality 16S rRNA sequence S000003559 (RDP), Y15992 (Genbank). N4Lid DOI: 10.1601/nm.3087

† *Bacteroides amylophilus*^{AL} Hamlin and Hungate 1956. ==> *Ruminobacter amylophilus* (new combination). Synonym links through N4Lid: 10.1601/ex.7934. Source of type material

recommended for DOE sponsored genome sequencing by the JGI: ATCC 29744. High-quality 16S rRNA sequence S000003559 (RDP), Y15992 (Genbank). N4Lid DOI: 10.1601/nm.7934

Genus *Succinimonas*^{AL} Bryant et al. 1958. N4Lid DOI: 10.1601/nm.3088

Succinimonas amyolytica^{AL} Bryant et al. 1958. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19206. High-quality 16S rRNA sequence S000017764 (RDP), Y17599 (Genbank). N4Lid DOI: 10.1601/nm.3089

Order "Enterobacteriales" N4Lid DOI: 10.1601/nm.3090

Family Enterobacteriaceae^{AL} Rahn 1937. N4Lid DOI: 10.1601/nm.3091

Genus *Escherichia*^{AL} Castellani and Chalmers 1919. N4Lid DOI: 10.1601/nm.3092

Escherichia coli^{AL} (Migula 1895) Castellani and Chalmers 1919. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11775. High-quality 16S rRNA sequence S000004313 (RDP), X80725 (Genbank). GOLD ID: Gc00008. GCAT ID: 000602_GCAT. Entrez genome id: 225. Sequenced strain: K12- MG1655 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 38 (GOLD) 22 (NCBI). N4Lid DOI: 10.1601/nm.3093

Escherichia albertii^{VP} Huys et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 46494. High-quality 16S rRNA sequence S000133399 (RDP), AJ508775 (Genbank). N4Lid DOI: 10.1601/nm.3095

Escherichia blattae^{AL} Burgess et al. 1973. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29907. GOLD ID: Gi00236. GCAT ID: 001022_GCAT. Sequenced strain: DSM 4481 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.3096

Escherichia fergusonii^{VP} Farmer et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35469. High-quality 16S rRNA sequence S000139289 (RDP), AF530475 (Genbank). GOLD ID: Gi01076. GCAT ID: 001029_GCAT. Sequenced strain: ATCC 35469 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.3097

Escherichia hermannii^{VP} Brenner et al. 1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33650. N4Lid DOI: 10.1601/nm.3098

Escherichia vulneris^{VP} Brenner et al. 1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33821. High-quality 16S rRNA sequence S000015709 (RDP), X80734 (Genbank). N4Lid DOI: 10.1601/nm.3099

Genus *Arsenophonus*^{VP} Gherna et al. 1991. N4Lid DOI: 10.1601/nm.3102

Arsenophonus nasoniae^{VP} Gherna et al. 1991. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49151. High-quality 16S rRNA sequence S000436880 (RDP), M90801 (Genbank). N4Lid DOI: 10.1601/nm.3103

"*Arsenophonus triatominarum*" Hypsa and Dale 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable type strain.. High-quality 16S rRNA sequence S000438835 (RDP), U91786 (Genbank). N4Lid DOI: 10.1601/nm.3104

Genus *Brenneria*^{VP} Hauben et al. 1999. N4Lid DOI: 10.1601/nm.3105

Brenneria salicis^{VP} (Day 1924) Hauben et al. 1999. <== *Erwinia salicis* (basonym). Synonym links through N4Lid: 10.1601/ex.3194. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15712. High-quality 16S rRNA sequence S000381181 (RDP), U80210 (Genbank). N4Lid DOI: 10.1601/nm.3106

† *Erwinia salicis*^{AL} (Day 1924) Chester 1939. ==> *Brenneria salicis* (new combination). Synonym links through N4Lid: 10.1601/ex.3194. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15712. High-quality 16S rRNA sequence S000381181 (RDP), U80210 (Genbank). N4Lid DOI: 10.1601/nm.3194

Brenneria alni^{VP} (Surico et al. 1996) Hauben et al. 1999. <== *Erwinia alni* (basonym). Synonym links through N4Lid: 10.1601/ex.3167. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700181. High-quality 16S rRNA sequence S000009580 (RDP), AJ223468 (Genbank). N4Lid DOI: 10.1601/nm.3107

† *Erwinia alni*^{VP} Surico et al. 1996. ==> *Brenneria alni* (new combination). Synonym links through N4Lid: 10.1601/ex.3167. Source of type material recommended for DOE sponsored

genome sequencing by the JGI: ATCC 700181. High-quality 16S rRNA sequence S000009580 (RDP), AJ223468 (Genbank). N4Lid DOI: 10.1601/nm.3167

Brenneria nigrifluens ^{VP} (Wilson et al. 1957) Hauben et al. 1999. <== *Erwinia nigrifluens* (basonym). Synonym links through N4Lid: 10.1601/ex.3185. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13028. High-quality 16S rRNA sequence S000381175 (RDP), U80203 (Genbank). N4Lid DOI: 10.1601/nm.3108

† *Erwinia nigrifluens* ^{AL} Wilson et al. 1957. ==> *Brenneria nigrifluens* (new combination). Synonym links through N4Lid: 10.1601/ex.3185. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13028. High-quality 16S rRNA sequence S000381175 (RDP), U80203 (Genbank). N4Lid DOI: 10.1601/nm.3185

Brenneria quercina ^{VP} (Hildebrand and Schroth 1967) Hauben et al. 1999. <== *Erwinia quercina* (basonym). Synonym links through N4Lid: 10.1601/ex.3191. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29281. High-quality 16S rRNA sequence S000003878 (RDP), AJ223469 (Genbank). N4Lid DOI: 10.1601/nm.3110

† *Erwinia quercina* ^{AL} Hildebrand and Schroth 1967. ==> *Brenneria quercina* (new combination). Synonym links through N4Lid: 10.1601/ex.3191. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29281. High-quality 16S rRNA sequence S000003878 (RDP), AJ223469 (Genbank). N4Lid DOI: 10.1601/nm.3191

Brenneria rubrifaciens ^{VP} (Wilson et al. 1967) Hauben et al. 1999. <== *Erwinia rubrifaciens* (basonym). Synonym links through N4Lid: 10.1601/ex.3193. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29291. High-quality 16S rRNA sequence S000381178 (RDP), U80207 (Genbank). N4Lid DOI: 10.1601/nm.3111

† *Erwinia rubrifaciens* ^{AL} Wilson et al. 1967. ==> *Brenneria rubrifaciens* (new combination). Synonym links through N4Lid: 10.1601/ex.3193. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29291. High-quality 16S rRNA sequence S000381178 (RDP), U80207 (Genbank). N4Lid DOI: 10.1601/nm.3193

Genus *Buchnera* ^{VP} Munson et al. 1991. N4Lid DOI: 10.1601/nm.3112

Buchnera aphidicola ^{VP} Munson et al. 1991. Source of type material recommended for DOE sponsored genome sequencing by the JGI: no culture isolated. High-quality 16S rRNA sequence S000436613 (RDP), M63246 (Genbank). GOLD ID: Gc00035. GCAT ID: 000575_GCAT. Entrez genome id: 245. Sequenced strain: AP is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 4 (GOLD) 4 (NCBI). N4Lid DOI: 10.1601/nm.3113

Genus *Budvicia* ^{VP} Aldová et al. 1985. N4Lid DOI: 10.1601/nm.3114

Budvicia aquatica ^{VP} Aldová et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35567. High-quality 16S rRNA sequence S000020702 (RDP), AJ233407 (Genbank). N4Lid DOI: 10.1601/nm.3115

Genus *Buttiauxella* ^{VP} Ferragut et al. 1982. N4Lid DOI: 10.1601/nm.3116

Buttiauxella agrestis ^{VP} Ferragut et al. 1982. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33320. High-quality 16S rRNA sequence S000351383 (RDP), AJ293685 (Genbank). N4Lid DOI: 10.1601/nm.3117

Buttiauxella brennerae ^{VP} Müller et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51605. High-quality 16S rRNA sequence S000016869 (RDP), AJ233401 (Genbank). N4Lid DOI: 10.1601/nm.3118

Buttiauxella ferragutiae ^{VP} Müller et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51602. High-quality 16S rRNA sequence S000020704 (RDP), AJ233402 (Genbank). N4Lid DOI: 10.1601/nm.3119

Buttiauxella gaviniae ^{VP} Müller et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51604. High-quality 16S rRNA sequence S000017991 (RDP), AJ233403 (Genbank). N4Lid DOI: 10.1601/nm.3120

Buttiauxella izardii ^{VP} Müller et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51606. High-quality 16S rRNA sequence S000022751 (RDP), AJ233404 (Genbank). N4Lid DOI: 10.1601/nm.3121

Buttiauxella noackiae ^{VP} Müller et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51607. High-quality 16S rRNA sequence S000351387 (RDP), AJ293689 (Genbank). N4Lid DOI: 10.1601/nm.3122

Buttiauxella warmboldiae^{VP} Müller et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51608. High-quality 16S rRNA sequence S000022752 (RDP), AJ233406 (Genbank). N4Lid DOI: 10.1601/nm.3123

Genus † *Calymmatobacterium*^{AL} Aragão and Vianna 1913. ≈ *Klebsiella* (earlier heterotypic synonym), links through 10.1601./nm.3202. N4Lid DOI: 10.1601/nm.3124

Genus *Cedecea*^{VP} Grimont et al. 1981. N4Lid DOI: 10.1601/nm.3126

Cedecea davisae^{VP} Grimont et al. 1981. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33431. High-quality 16S rRNA sequence S000120182 (RDP), AF493976 (Genbank). N4Lid DOI: 10.1601/nm.3127

Cedecea lapagei^{VP} Grimont et al. 1981. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33432. N4Lid DOI: 10.1601/nm.3128

Cedecea neteri^{VP} Farmer et al. 1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33855. N4Lid DOI: 10.1601/nm.3129

Genus *Citrobacter*^{AL} Werkman and Gillen 1932. ≈ *Citrobacter* (later heterotypic synonym), links through 10.1601./nm.3130. N4Lid DOI: 10.1601/nm.3130

Citrobacter freundii^{AL} (Braak 1928) Werkman and Gillen 1932. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 8090. High-quality 16S rRNA sequence S000001311 (RDP), AJ233408 (Genbank). N4Lid DOI: 10.1601/nm.3131

Citrobacter amalonaticus^{VP} (Young et al. 1971) Brenner and Farmer 1982. <== *Levinea amalonatica* (basonym). Synonym links through N4Lid: 10.1601/ex.3132. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25405. N4Lid DOI: 10.1601/nm.3132

† *Levinea amalonatica*^{AL} Young et al. 1971. ==> *Citrobacter amalonaticus* (new combination). Synonym links through N4Lid: 10.1601/ex.3132. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25405. N4Lid 10.1601/nm.9060

Citrobacter braakii^{VP} Brenner et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51113. High-quality 16S rRNA sequence S000427774 (RDP), AF025368 (Genbank). N4Lid DOI: 10.1601/nm.3133

Citrobacter farmeri^{VP} Brenner et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51112. High-quality 16S rRNA sequence S000427777 (RDP), AF025371 (Genbank). N4Lid DOI: 10.1601/nm.3135

Citrobacter gillanii^{VP} Brenner et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51117. N4Lid DOI: 10.1601/nm.3136

Citrobacter koseri^{AL} Frederiksen 1970. ≈ *Citrobacter diversus* (later heterotypic synonym), links through 10.1601./nm.3137. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27028. High-quality 16S rRNA sequence S000427778 (RDP), AF025372 (Genbank). GOLD ID: Gi00708. GCAT ID: 000962_GCAT. Entrez genome id: 12716. Sequenced strain: ATCC BAA-895 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3137

† *Citrobacter diversus*^{AL} (Burkey 1928) Werkman and Gillen 1932. ≈ *Citrobacter koseri* (later heterotypic synonym, rejected name). Synonym links through N4Lid: 10.1601/nm.3137. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27156. N4Lid DOI: 10.1601/nm.3134

† *Levinea malonatica*^{AL} Young et al. 1971. ≈ *Citrobacter koseri* (earlier heterotypic synonym), links through 10.1601./nm.3137. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25408. High-quality 16S rRNA sequence S000427778 (RDP), AF025372 (Genbank). GOLD ID: Gi00708. GCAT ID: 000962_GCAT. Entrez genome id: 12716. Sequenced strain: ATCC BAA-895 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid 10.1601/nm.9061

Citrobacter murlinae^{VP} Brenner et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51118. High-quality 16S rRNA sequence S000427775 (RDP), AF025369 (Genbank). N4Lid DOI: 10.1601/nm.3138

Citrobacter rodentium^{VP} Schauer et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51116. High-quality 16S rRNA sequence

S000427769 (RDP), AF025363 (Genbank). GOLD ID: Gi00153. GCAT ID: 000963_GCAT. Entrez genome id: 13422. Sequenced strain: ICC168 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3139

Citrobacter sedlakii^{VP} Brenner et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51115. High-quality 16S rRNA sequence S000427770 (RDP), AF025364 (Genbank). N4Lid DOI: 10.1601/nm.3140

Citrobacter werkmanii^{VP} Brenner et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51114. High-quality 16S rRNA sequence S000427779 (RDP), AF025373 (Genbank). N4Lid DOI: 10.1601/nm.3141

Citrobacter youngae^{VP} Brenner et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29935. N4Lid DOI: 10.1601/nm.3142

Genus *Dickeya*^{VP} Samson et al. 2005. N4Lid 10.1601/nm.9517

Dickeya chrysanthemi^{VP} (Burkholder et al. 1953) Samson et al. 2005. <== *Erwinia chrysanthemi* (basonym). Synonym links through N4Lid: 10.1601/ex.3179. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11663. High-quality 16S rRNA sequence S000381172 (RDP), U80200 (Genbank). GOLD ID: Gi00235. GCAT ID: 001018_GCAT. Entrez genome id: 30. Sequenced strain: 3937 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid 10.1601/nm.9262

† *Pectobacterium chrysanthemi*^{AL} (Burkholder et al. 1953) Brenner et al. 1973. <== *Erwinia chrysanthemi* (basonym). *Dickeya chrysanthemi* (new combination). Synonym links through N4Lid: 10.1601/ex.3179. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11663. High-quality 16S rRNA sequence S000381172 (RDP), U80200 (Genbank). GOLD ID: Gi00235. GCAT ID: 001018_GCAT. Entrez genome id: 30. Sequenced strain: 3937 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3251

† *Erwinia chrysanthemi*^{AL} Burkholder et al. 1953. ==> *Pectobacterium chrysanthemi* (new combination). Synonym links through N4Lid: 10.1601/ex.3179. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11663. High-quality 16S rRNA sequence S000381172 (RDP), U80200 (Genbank). GOLD ID: Gi00235. GCAT ID: 001018_GCAT. Entrez genome id: 30. Sequenced strain: 3937 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3179

Dickeya dadantii^{VP} Samson et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CFBP 1269. High-quality 16S rRNA sequence S000570097 (RDP), AF520707 (Genbank). N4Lid 10.1601/nm.9513

Dickeya dianthicola^{VP} Samson et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 2485. High-quality 16S rRNA sequence S000570101 (RDP), AF520712 (Genbank). N4Lid 10.1601/nm.9514

Dickeya dieffenbachiae^{VP} Samson et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CFBP 2052. High-quality 16S rRNA sequence S000570100 (RDP), AF520711 (Genbank). N4Lid 10.1601/nm.9515

Dickeya paradisiaca^{VP} (Fernandez-Borrero and Lopez-Duque 1970) Samson et al. 2005. <== *Erwinia paradisiaca* (basonym). Synonym links through N4Lid: 10.1601/ex.3187. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33242. High-quality 16S rRNA sequence S000129488 (RDP), Z96096 (Genbank). N4Lid 10.1601/nm.9257

† *Brenneria paradisiaca*^{VP} (Fernandez-Borrero and Lopez-Duque 1970) Hauben et al. 1999. <== *Erwinia paradisiaca* (basonym). *Dickeya paradisiaca* (new combination). Synonym links through N4Lid: 10.1601/ex.3187. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33242. High-quality 16S rRNA sequence S000129488 (RDP), Z96096 (Genbank). N4Lid DOI: 10.1601/nm.3109

† *Erwinia paradisiaca*^{AL} Fernandez-Borrero and Lopez-Duque 1970. ==> *Brenneria paradisiaca* (new combination). Synonym links through N4Lid: 10.1601/ex.3187. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33242. High-quality 16S rRNA sequence S000129488 (RDP), Z96096 (Genbank). N4Lid DOI: 10.1601/nm.3187

Dickeya zeae^{VP} Samson et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 2505. High-quality 16S rRNA sequence S000570100 (RDP), AF520711 (Genbank). N4Lid 10.1601/nm.9516

Genus *Edwardsiella*^{AL} Ewing and McWhorter 1965. N4Lid DOI: 10.1601/nm.3143

Edwardsiella tarda^{AL} Ewing and McWhorter 1965. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15947. High-quality 16S rRNA sequence S000004636 (RDP), AB050827 (Genbank). N4Lid DOI: 10.1601/nm.3144

Edwardsiella anguillimortifera^{AL} (Hoshina 1962) Sakazaki and Tamura 1975. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15947. High-quality 16S rRNA sequence S000004636 (RDP), AB050827 (Genbank). N4Lid DOI: 10.1601/nm.3145

Edwardsiella hoshinae^{VP} Grimont et al. 1981. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33379. High-quality 16S rRNA sequence S000009145 (RDP), AB050825 (Genbank). N4Lid DOI: 10.1601/nm.3146

Edwardsiella ictaluri^{VP} Hawke et al. 1981. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33202. High-quality 16S rRNA sequence S000007645 (RDP), AB050826 (Genbank). GOLD ID: Gi00212. GCAT ID: 001005_GCAT. Entrez genome id: 13468. Sequenced strain: 93-146 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3147

Genus *Enterobacter*^{AL} Hormaeche and Edwards 1960. GOLD ID: Gi01336. GCAT ID: 001748_GCAT. Entrez genome id: 17461. Sequenced strain: 638 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3148

Enterobacter cloacae subsp. cloacae^{AL} (Jordan 1890) Hormaeche and Edwards 1960. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13047. High-quality 16S rRNA sequence S000021184 (RDP), AJ251469 (Genbank). GOLD ID: Gi00225. GCAT ID: 001011_GCAT. Entrez genome id: 13379. Genome sequence is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3149

† *Enterobacter aerogenes*^{AL} Hormaeche and Edwards 1960. == *Klebsiella mobilis* (later homotypic synonym), links through 10.1601/ex.3150. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13048. High-quality 16S rRNA sequence S000381745 (RDP), AB004750 (Genbank). N4Lid DOI: 10.1601/nm.3150

† *Klebsiella mobilis*^{AL} Bascomb et al. 1971. ≈ *Enterobacter aerogenes* (earlier homotypic synonym), links through 10.1601/ex.3150. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 1235. High-quality 16S rRNA sequence S000381745 (RDP), AB004750 (Genbank). N4Lid DOI: 10.1601/nm.3207

Enterobacter amnigenus^{VP} Izard et al. 1981. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33072. High-quality 16S rRNA sequence S000381744 (RDP), AB004749 (Genbank). N4Lid DOI: 10.1601/nm.3152

Enterobacter asburiae^{VP} Brenner et al. 1988. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35953. High-quality 16S rRNA sequence S000381739 (RDP), AB004744 (Genbank). N4Lid DOI: 10.1601/nm.3153

Enterobacter cancerogenus^{VP} (Urosevic 1966) Dickey and Zumoff 1988. <== *Erwinia cancerogena* (basonym). Synonym links through N4Lid: 10.1601/ex.3172. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33241. N4Lid DOI: 10.1601/nm.3154

† *Enterobacter taylorae*^{VP} Farmer et al. 1985. == *Enterobacter cancerogenus* (earlier heterotypic synonym), links through 10.1601/nm.3154. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35317. N4Lid DOI: 10.1601/nm.3164

† *Erwinia cancerogena*^{AL} Urosevic 1966. ==> *Enterobacter cancerogenus* (new combination). Synonym links through N4Lid: 10.1601/ex.3172. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33241. N4Lid DOI: 10.1601/nm.3172

Enterobacter cloacae subsp. dissolvens^{VP} (Rosen 1922) Hoffmann et al. 2005. <== *Erwinia dissolvens* (basonym). Synonym links through N4Lid: 10.1601/ex.3181. Source of type material

recommended for DOE sponsored genome sequencing by the JGI: ATCC 23373. N4Lid 10.1601/nm.9254

† *Enterobacter dissolvens*^{VP} (Rosen 1922) Brenner et al. 1988. <== *Erwinia dissolvens* (basonym). *Enterobacter cloacae* subsp. *dissolvens* (new combination). Synonym links through N4Lid: 10.1601/ex.3181. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23373. N4Lid DOI: 10.1601/nm.3156

† *Erwinia dissolvens*^{AL} (Rosen 1922) Burkholder 1948. ==> *Enterobacter dissolvens* (new combination). Synonym links through N4Lid: 10.1601/ex.3181. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23373. N4Lid DOI: 10.1601/nm.3181

Enterobacter cowanii^{VP} Inoue et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 10956. High-quality 16S rRNA sequence S000114246 (RDP), AJ508303 (Genbank). N4Lid DOI: 10.1601/nm.3155

Enterobacter gergoviae^{VP} Brenner et al. 1980. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33028. High-quality 16S rRNA sequence S000381743 (RDP), AB004748 (Genbank). N4Lid DOI: 10.1601/nm.3157

Enterobacter hormaechei^{VP} O'Hara et al. 1990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49162. High-quality 16S rRNA sequence S000114066 (RDP), AJ508302 (Genbank). N4Lid DOI: 10.1601/nm.3158

Enterobacter kobei^{VP} Kosako et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-260. High-quality 16S rRNA sequence S000113887 (RDP), AJ508301 (Genbank). N4Lid DOI: 10.1601/nm.3160

Enterobacter ludwigii^{VP} Hoffmann et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16688. N4Lid 10.1601/nm.9683

Enterobacter nimipressuralis^{VP} (Carter 1945) Brenner et al. 1988. <== *Erwinia nimipressuralis* (basonym). Synonym links through N4Lid: 10.1601/ex.3186. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 9912. N4Lid DOI: 10.1601/nm.3161

† *Erwinia nimipressuralis*^{AL} (Carter 1945) Dye 1969. ==> *Enterobacter nimipressuralis* (new combination). Synonym links through N4Lid: 10.1601/ex.3186. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 9912. N4Lid DOI: 10.1601/nm.3186

Enterobacter pyrinus^{VP} Chung et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49851. High-quality 16S rRNA sequence S000134034 (RDP), AJ010486 (Genbank). N4Lid DOI: 10.1601/nm.3162

Enterobacter radicincitans^{VP} Kämpfer et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16656. High-quality 16S rRNA sequence S000503537 (RDP), AY563134 (Genbank). N4Lid 10.1601/nm.9477

Enterobacter sakazakii^{VP} Farmer et al. 1980. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29544. High-quality 16S rRNA sequence S000381741 (RDP), AB004746 (Genbank). GOLD ID: Gi00537. GCAT ID: 001451_GCAT. Entrez genome id: 12720. Sequenced strain: ATCC BAA-893 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3163

Genus *Erwinia*^{AL} Winslow et al. 1920. N4Lid DOI: 10.1601/nm.3165

Erwinia amylovora^{AL} (Burrill 1882) Winslow et al. 1920. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15580. High-quality 16S rRNA sequence S000381167 (RDP), U80195 (Genbank). GOLD ID: Gi00233. GCAT ID: 001017_GCAT. Entrez genome id: 12610. Sequenced strain: Ea273 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3166

Erwinia aphidicola^{VP} Harada et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 106296. N4Lid DOI: 10.1601/nm.3169

Erwinia billingiae^{VP} Mergaert et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 106121. High-quality 16S rRNA sequence S000013508 (RDP), Y13249 (Genbank). GOLD ID: Gi01609. GCAT ID: 001020_GCAT.

Sequenced strain: Eb661 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.3170

Erwinia cyripedii^{AL} (Hori 1911) Bergey et al. 1923. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29267. High-quality 16S rRNA sequence S000381173 (RDP), U80201 (Genbank). N4Lid DOI: 10.1601/nm.3180

Erwinia mallotivora^{AL} Goto 1976. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29573. High-quality 16S rRNA sequence S000128850 (RDP), Z96084 (Genbank). N4Lid DOI: 10.1601/nm.3183

Erwinia papayae^{VP} Gardan et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CFBP 5189. High-quality 16S rRNA sequence S000396754 (RDP), AY131237 (Genbank). N4Lid 10.1601/nm.9248

Erwinia persicina^{VP} corrig. Hao et al. 1990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35998. High-quality 16S rRNA sequence S000381176 (RDP), U80205 (Genbank). N4Lid DOI: 10.1601/nm.3188

Erwinia psidii^{VP} Neto et al. 1988. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49406. N4Lid DOI: 10.1601/nm.3189

Erwinia pyrifoliae^{VP} Kim et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 12163. N4Lid DOI: 10.1601/nm.3190

Erwinia rhapontici^{AL} (Millard 1924) Burkholder 1948. == *Pectobacterium rhapontici* (later homotypic synonym), links through 10.1601/ex.3253. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29283. High-quality 16S rRNA sequence S000381177 (RDP), U80206 (Genbank). N4Lid DOI: 10.1601/nm.3192

† *Pectobacterium rhapontici*^{AL} (Millard 1924) Patel and Kulkarni 1951. == *Erwinia rhapontici* (earlier homotypic synonym), links through 10.1601/ex.3253. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29283. High-quality 16S rRNA sequence S000381177 (RDP), U80206 (Genbank). N4Lid DOI: 10.1601/nm.3253

Erwinia toletana^{VP} Rojas et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700880. High-quality 16S rRNA sequence S000458495 (RDP), AF130910 (Genbank). N4Lid DOI: 10.1601/nm.8578

Erwinia tracheiphila^{AL} (Smith 1895) Bergey et al. 1923. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33245. High-quality 16S rRNA sequence S000007314 (RDP), Y13250 (Genbank). N4Lid DOI: 10.1601/nm.3196

Genus *Ewingella*^{VP} Grimont et al. 1984. N4Lid DOI: 10.1601/nm.3198

Ewingella americana^{VP} Grimont et al. 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33852. N4Lid DOI: 10.1601/nm.3199

Genus *Hafnia*^{AL} Møller 1954. N4Lid DOI: 10.1601/nm.3200

Hafnia alvei^{AL} Møller 1954. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13337. High-quality 16S rRNA sequence S000436518 (RDP), M59155 (Genbank). N4Lid DOI: 10.1601/nm.3201

Genus *Klebsiella*^{AL} Trevisan 1885. ≈ *Klebsiella* (later heterotypic synonym), links through 10.1601/nm.3202. N4Lid DOI: 10.1601/nm.3202

Klebsiella pneumoniae subsp. *pneumoniae*^{VP} (Schroeter 1886) Trevisan 1887. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11296. High-quality 16S rRNA sequence S000001991 (RDP), Y17656 (Genbank). GOLD ID: Gi00305. GCAT ID: 001149_GCAT. Sequenced strain: MGH 78578 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 3 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3203

Klebsiella pneumoniae subsp. *ozaenae*^{VP} (Abel 1893) Ørskov 1984. <== *Klebsiella ozaenae* (basonym). Synonym links through N4Lid: 10.1601/ex.3210. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11296. High-quality 16S rRNA sequence S000003122 (RDP), Y17654 (Genbank). N4Lid DOI: 10.1601/nm.3204

† *Klebsiella ozaenae*^{AL} (Abel 1893) Bergey et al. 1925. ==> *Klebsiella pneumoniae* subsp. *ozaenae* (new combination). Synonym links through N4Lid: 10.1601/ex.3210. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11296. High-

quality 16S rRNA sequence S000003122 (RDP), Y17654 (Genbank). N4Lid DOI: 10.1601/nm.3210

Klebsiella pneumoniae* subsp. *rhinoscleromatis^{VP} (Trevisan 1887) Ørskov 1984. <== *Klebsiella rhinoscleromatis* (basonym). Synonym links through N4Lid: 10.1601/ex.3212. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13884. N4Lid DOI: 10.1601/nm.3205

† *Klebsiella rhinoscleromatis*^{AL} Trevisan 1887. ==> *Klebsiella pneumoniae* subsp. *rhinoscleromatis* (new combination). Synonym links through N4Lid: 10.1601/ex.3212. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13884. N4Lid DOI: 10.1601/nm.3212

Klebsiella granulomatis^{VP} (Aragão and Vianna 1913) Carter et al. 1999. <== *Calymmatobacterium granulomatis* (basonym). Synonym links through N4Lid: 10.1601/ex.3125. Source of type material recommended for DOE sponsored genome sequencing by the JGI: no strain extant. High-quality 16S rRNA sequence S000387079 (RDP), AF010251 (Genbank). N4Lid DOI: 10.1601/nm.3206

† *Calymmatobacterium granulomatis*^{AL} Aragão and Vianna 1913. ==> *Klebsiella granulomatis* (new combination). Synonym links through N4Lid: 10.1601/ex.3125. Source of type material recommended for DOE sponsored genome sequencing by the JGI: no strain extant. High-quality 16S rRNA sequence S000387079 (RDP), AF010251 (Genbank). N4Lid DOI: 10.1601/nm.3125

Klebsiella oxytoca^{AL} (Flügge 1886) Lautrop 1956. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13182. High-quality 16S rRNA sequence S000005868 (RDP), Y17655 (Genbank). GOLD ID: Gi00304. GCAT ID: 001146_GCAT. Entrez genome id: 12627. Sequenced strain: VJSK009 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3209

Klebsiella singaporensis^{VP} Li et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16265. High-quality 16S rRNA sequence S000458520 (RDP), AF250285 (Genbank). N4Lid 10.1601/nm.8643

Klebsiella variicola^{VP} Rosenblueth et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-830. High-quality 16S rRNA sequence S000324392 (RDP), AJ783916 (Genbank). N4Lid 10.1601/nm.8644

Genus *Kluyvera*^{VP} Farmer et al. 1981. N4Lid DOI: 10.1601/nm.3215

Kluyvera ascorbata^{VP} Farmer et al. 1981. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33433. High-quality 16S rRNA sequence S000022462 (RDP), AF008579 (Genbank). N4Lid DOI: 10.1601/nm.3216

Kluyvera cryocrescens^{VP} Farmer et al. 1981. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33435. High-quality 16S rRNA sequence S000000149 (RDP), AF310218 (Genbank). N4Lid DOI: 10.1601/nm.3218

Kluyvera georgiana^{VP} Müller et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51603. High-quality 16S rRNA sequence S000470254 (RDP), AF047186 (Genbank). N4Lid DOI: 10.1601/nm.3219

Kluyvera intermedia^{VP} (Izard et al. 1980) Pavan et al. 2005. <== *Enterobacter intermedius* (basonym). Synonym links through N4Lid: 10.1601/ex.3159. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33110. High-quality 16S rRNA sequence S000015063 (RDP), AF310217 (Genbank). N4Lid 10.1601/nm.8645

† *Enterobacter intermedius*^{VP} corrig. Izard et al. 1980. ==> *Kluyvera intermedia* (new combination). Synonym links through N4Lid: 10.1601/ex.3159. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33110. High-quality 16S rRNA sequence S000015063 (RDP), AF310217 (Genbank). N4Lid DOI: 10.1601/nm.3159

† *Kluyvera cochleae*^{VP} Müller et al. 1996. ≈ *Kluyvera intermedia* (earlier heterotypic synonym), links through 10.1601/nm.8645. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51609. High-quality 16S rRNA sequence S000470255 (RDP), AF047187 (Genbank). N4Lid DOI: 10.1601/nm.3217

Genus † *Koserella*^{VP} Hickman-Brenner et al. 1985. ≈ *Yokenella* (earlier heterotypic synonym), links through 10.1601/nm.3367. N4Lid 10.1601/nm.9132

- Genus *Leclercia***^{VP} Tamura et al. 1987. N4Lid DOI: 10.1601/nm.3220
Leclercia adecarboxylata^{VP} (Leclerc 1962) Tamura et al. 1987. <== *Escherichia adecarboxylata* (basonym). Synonym links through N4Lid: 10.1601/ex.3094. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23216. N4Lid DOI: 10.1601/nm.3221
† *Escherichia adecarboxylata*^{AL} Leclerc 1962. ==> *Leclercia adecarboxylata* (new combination). Synonym links through N4Lid: 10.1601/ex.3094. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23216. N4Lid DOI: 10.1601/nm.3094
- Genus *Leminorella***^{VP} Hickman-Brenner et al. 1985. N4Lid DOI: 10.1601/nm.3222
Leminorella grimontii^{VP} Hickman-Brenner et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33999. High-quality 16S rRNA sequence S000020201 (RDP), AJ233421 (Genbank). N4Lid DOI: 10.1601/nm.3223
Leminorella richardii^{VP} Hickman-Brenner et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33998. N4Lid DOI: 10.1601/nm.3224
- Genus † *Levinea***^{AL} Young et al. 1971. ≈ *Citrobacter* (earlier heterotypic synonym), links through 10.1601./nm.3130. N4Lid 10.1601/nm.9059
- Genus *Moellerella***^{VP} Hickman-Brenner et al. 1984. N4Lid DOI: 10.1601/nm.3225
Moellerella wisconsensis^{VP} Hickman-Brenner et al. 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35017. High-quality 16S rRNA sequence S000544661 (RDP), AM040754 (Genbank). N4Lid DOI: 10.1601/nm.3226
- Genus *Morganella***^{AL} Fulton 1943. N4Lid DOI: 10.1601/nm.3227
Morganella morganii subsp. morganii^{VP} (Winslow et al. 1919) Fulton 1943. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25830. High-quality 16S rRNA sequence S000129416 (RDP), AJ301681 (Genbank). N4Lid DOI: 10.1601/nm.3228
Morganella morganii subsp. sibonii^{VP} Jensen et al. 1992. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49948. N4Lid DOI: 10.1601/nm.3229
- Genus *Obesumbacterium***^{AL} Shimwell 1963. N4Lid DOI: 10.1601/nm.3230
Obesumbacterium proteus^{AL} (Shimwell and Grimes 1936) Shimwell 1963. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 12841. High-quality 16S rRNA sequence S000019080 (RDP), AJ233422 (Genbank). N4Lid DOI: 10.1601/nm.3231
- Genus *Pantoea***^{VP} Gavini et al. 1989. N4Lid DOI: 10.1601/nm.3232
Pantoea agglomerans^{VP} (Ewing and Fife 1972) Gavini et al. 1989. <== *Enterobacter agglomerans* (basonym). Synonym links through N4Lid: 10.1601/ex.3151. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27155. High-quality 16S rRNA sequence S000458496 (RDP), AF130953 (Genbank). N4Lid DOI: 10.1601/nm.3233
† *Erwinia herbicola*^{AL} (Löhnis 1911) Dye 1964. ≈ *Pantoea agglomerans* (earlier heterotypic synonym), links through 10.1601./nm.3233. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33243. High-quality 16S rRNA sequence S000381174 (RDP), U80202 (Genbank). N4Lid DOI: 10.1601/nm.3182
† *Erwinia milletiae*^{AL} (Kawakami and Yoshida 1920) Magrou 1937. ≈ *Pantoea agglomerans* (earlier heterotypic synonym), links through 10.1601./nm.3233. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCPPB 2519. N4Lid DOI: 10.1601/nm.3184
† *Enterobacter agglomerans*^{AL} Ewing and Fife 1972. ==> *Pantoea agglomerans* (new combination). Synonym links through N4Lid: 10.1601/ex.3151. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27155. High-quality 16S rRNA sequence S000458496 (RDP), AF130953 (Genbank). N4Lid DOI: 10.1601/nm.3151
Pantoea ananatis^{VP} corrig. (Serrano 1928) Mergaert et al. 1993. <== *Erwinia ananatis* (basonym). Synonym links through N4Lid: 10.1601/ex.3168. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33244. High-quality 16S rRNA sequence S000381168 (RDP), U80196 (Genbank). N4Lid DOI: 10.1601/nm.3234

- † *Erwinia uredovora*^{AL} (Pon et al. 1954) Dye 1963. ≈ *Pantoea ananatis* (earlier heterotypic synonym), links through 10.1601/nm.3234. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19321. High-quality 16S rRNA sequence S000381180 (RDP), U80209 (Genbank). N4Lid DOI: 10.1601/nm.3197
- † *Erwinia ananatis*^{AL} corrig. Serrano 1928. ==> *Pantoea ananatis* (new combination). Synonym links through N4Lid: 10.1601/ex.3168. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33244. High-quality 16S rRNA sequence S000381168 (RDP), U80196 (Genbank). N4Lid DOI: 10.1601/nm.3168
- Pantoea citrea*^{VP} Kageyama et al. 1992. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 31623. GOLD ID: Gi00426. GCAT ID: 001346_GCAT. Genome sequence is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.3235
- Pantoea dispersa*^{VP} Gavini et al. 1989. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14589. N4Lid DOI: 10.1601/nm.3236
- Pantoea punctata*^{VP} Kageyama et al. 1992. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 31626. N4Lid DOI: 10.1601/nm.3237
- Pantoea stewartii* subsp. *stewartii*^{VP} (Smith 1898) Mergaert et al. 1993. <== *Erwinia stewartii* (basonym). Synonym links through N4Lid: 10.1601/ex.3195. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 8199. High-quality 16S rRNA sequence S000128206 (RDP), Z96080 (Genbank). GOLD ID: Gi00427. GCAT ID: 001348_GCAT. Sequenced strain: DC283. is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 2 (GOLD). N4Lid DOI: 10.1601/nm.3238
- † *Erwinia stewartii*^{AL} (Smith 1898) Dye 1963. ==> *Pantoea stewartii* subsp. *stewartii* (new combination). Synonym links through N4Lid: 10.1601/ex.3195. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 8199. High-quality 16S rRNA sequence S000128206 (RDP), Z96080 (Genbank). GOLD ID: Gi00427. GCAT ID: 001348_GCAT. Sequenced strain: DC283. is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 2 (GOLD) 0 (NCBI). N4Lid DOI: 10.1601/nm.3195
- Pantoea stewartii* subsp. *indologenes*^{VP} Mergaert et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51785. High-quality 16S rRNA sequence S000015015 (RDP), Y13251 (Genbank). N4Lid DOI: 10.1601/nm.3239
- Pantoea terrea*^{VP} Kageyama et al. 1992. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 31628. N4Lid DOI: 10.1601/nm.3240
- Genus *Pectobacterium***^{AL} Waldee 1945. N4Lid DOI: 10.1601/nm.3241
- Pectobacterium carotovorum* subsp. *carotovorum*^{VP} (Jones 1901) Hauben et al. 1999. <== *Erwinia carotovora* subsp. *carotovora* (basonym). Synonym links through N4Lid: 10.1601/ex.3174. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15713. High-quality 16S rRNA sequence S000381169 (RDP), U80197 (Genbank). N4Lid DOI: 10.1601/nm.3242
- † *Erwinia carotovora* subsp. *carotovora*^{AL} (Jones 1901) Bergey et al. 1923. ==> *Pectobacterium carotovorum* subsp. *carotovorum* (new combination). Synonym links through N4Lid: 10.1601/ex.3174. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15713. High-quality 16S rRNA sequence S000381169 (RDP), U80197 (Genbank). N4Lid DOI: 10.1601/nm.3174
- † *Pectobacterium carotovorum* subsp. *atrosepticum*^{VP} (van Hall 1902) Hauben et al. 1999. <== *Erwinia carotovora* subsp. *atroseptica* (basonym). Synonym links through N4Lid: 10.1601/ex.3175. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33260. GOLD ID: Gc00202. GCAT ID: 000408_GCAT. Entrez genome id: 350. Sequenced strain: ATCC BAA-672 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3243
- † *Erwinia carotovora* subsp. *atroseptica*^{AL} (van Hall 1902) Dye 1969. ==> *Pectobacterium carotovorum* subsp. *atrosepticum* (new combination). Synonym links through N4Lid: 10.1601/ex.3175. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33260. GOLD ID: Gc00202. GCAT ID: 000408_GCAT. Entrez genome id: 350.

Sequenced strain: ATCC BAA-672 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3175

Pectobacterium carotovorum subsp. *odoriferum*^{VP} (Gallois et al. 1992) Hauben et al. 1999. <== *Erwinia carotovora* subsp. *odorifera* (basonym). Synonym links through N4Lid: 10.1601/ex.3177. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CFBP 1878. High-quality 16S rRNA sequence S000003542 (RDP), AJ223407 (Genbank). N4Lid DOI: 10.1601/nm.3245

† *Erwinia carotovora* subsp. *odorifera*^{VP} Gallois et al. 1992. ==> *Pectobacterium carotovorum* subsp. *odoriferum* (new combination). Synonym links through N4Lid: 10.1601/ex.3177. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CFBP 1878. High-quality 16S rRNA sequence S000003542 (RDP), AJ223407 (Genbank). N4Lid DOI: 10.1601/nm.3177

Pectobacterium atrosepticum^{VP} (van Hall 1902) Gardan et al. 2003. Synonym links through N4Lid: 10.1601/ex.3247. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33260. N4Lid DOI: 10.1601/nm.3247

Pectobacterium betavasculorum^{VP} (Thomson et al. 1984) Gardan et al. 2003. <== *Erwinia carotovora* subsp. *betavasculorum* (basonym). Synonym links through N4Lid: 10.1601/ex.3176. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43762. High-quality 16S rRNA sequence S000381170 (RDP), U80198 (Genbank). N4Lid DOI: 10.1601/nm.3248

† *Erwinia carotovora* subsp. *betavasculorum*^{VP} Thomson et al. 1984. ==> *Pectobacterium carotovorum* subsp. *betavasculorum* (new combination). Synonym links through N4Lid: 10.1601/ex.3176. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43762. High-quality 16S rRNA sequence S000381170 (RDP), U80198 (Genbank). N4Lid DOI: 10.1601/nm.3176

Pectobacterium carotovorum subsp. *betavasculorum*^{VP} (Thomson et al. 1984) Hauben et al. 1999. <== *Erwinia carotovora* subsp. *betavasculorum* (basonym). *Pectobacterium betavasculorum* (new combination). Synonym links through N4Lid: 10.1601/ex.3176. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43762. High-quality 16S rRNA sequence S000381170 (RDP), U80198 (Genbank). N4Lid DOI: 10.1601/nm.3244

Pectobacterium cacticida^{VP} corrig. (Alcorn et al. 1991) Hauben et al. 1999. <== *Erwinia cacticida* (basonym). Synonym links through N4Lid: 10.1601/ex.3171. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49481. High-quality 16S rRNA sequence S000011619 (RDP), AJ223409 (Genbank). N4Lid DOI: 10.1601/nm.3249

† *Erwinia cacticida*^{VP} Alcorn et al. 1991. ==> *Pectobacterium cacticida* (new combination). Synonym links through N4Lid: 10.1601/ex.3171. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49481. High-quality 16S rRNA sequence S000011619 (RDP), AJ223409 (Genbank). N4Lid DOI: 10.1601/nm.3171

† *Pectobacterium carnegieana*^{AL} (Standring 1942) Brenner et al. 1973. Rejected name. *Erwinia carnegieana* (basonym). Synonym links through N4Lid: 10.1601/nm.3173. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCPPB 439. N4Lid DOI: 10.1601/nm.3250

† *Erwinia carnegieana*^{AL} Standring 1942. Rejected name. *Pectobacterium carnegieana* (new combination). Synonym links through N4Lid: 10.1601/nm.3250. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCPPB 439. N4Lid DOI: 10.1601/nm.3173

Pectobacterium cypripedii^{AL} (Hori 1911) Brenner et al. 1973. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29267. High-quality 16S rRNA sequence S000381173 (RDP), U80201 (Genbank). N4Lid DOI: 10.1601/nm.3252

† *Pectobacterium carotovorum* subsp. *wasabiae*^{VP} (Goto and Matsumoto 1987) Hauben et al. 1999. <== *Erwinia carotovora* subsp. *wasabiae* (basonym). *Pectobacterium wasabiae* (new combination). Synonym links through N4Lid: 10.1601/ex.3178. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43316. High-quality 16S rRNA sequence S000381171 (RDP), U80199 (Genbank). N4Lid DOI: 10.1601/nm.3246

Pectobacterium wasabiae^{VP} (Goto and Matsumoto 1987) Gardan et al. 2003. <== *Erwinia carotovora subsp. wasabiae* (basonym). Synonym links through N4Lid: 10.1601/ex.3178. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43316. High-quality 16S rRNA sequence S000381171 (RDP), U80199 (Genbank). N4Lid DOI: 10.1601/nm.3254

† *Erwinia carotovora subsp. wasabiae*^{VP} Goto and Matsumoto 1987. ==> *Pectobacterium carotovorum subsp. wasabiae* (new combination). Synonym links through N4Lid: 10.1601/ex.3178. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43316. High-quality 16S rRNA sequence S000381171 (RDP), U80199 (Genbank). N4Lid DOI: 10.1601/nm.3178

Genus "Phlomobacter" N4Lid DOI: 10.1601/nm.3255

Phlomobacter fragariae^{VP} Zreik et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable type strain.. High-quality 16S rRNA sequence S000438807 (RDP), U91515 (Genbank). N4Lid DOI: 10.1601/nm.3256

Genus Photorhabdus^{VP} Boemare et al. 1993. N4Lid DOI: 10.1601/nm.3257

Photorhabdus luminescens subsp. luminescens^{VP} (Thomas and Poinar 1979) Boemare et al. 1993. <== *Xenorhabdus luminescens* (basonym). Synonym links through N4Lid: 10.1601/ex.3350. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29999. High-quality 16S rRNA sequence S000413909 (RDP), D78005 (Genbank). N4Lid DOI: 10.1601/nm.3258

† *Xenorhabdus luminescens*^{AL} Thomas and Poinar 1979. ==> *Photorhabdus luminescens subsp. luminescens* (new combination). Synonym links through N4Lid: 10.1601/ex.3350. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29999. High-quality 16S rRNA sequence S000413909 (RDP), D78005 (Genbank). N4Lid DOI: 10.1601/nm.3350

Photorhabdus luminescens subsp. akhurstii^{VP} Fischer-Le Saux et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 105564. N4Lid DOI: 10.1601/nm.3259

Photorhabdus luminescens subsp. kayaii^{VP} Hazir et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15194. High-quality 16S rRNA sequence S000323369 (RDP), AJ560630 (Genbank). N4Lid 10.1601/nm.8778

Photorhabdus luminescens subsp. laumondii^{VP} Fischer-Le Saux et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15139. High-quality 16S rRNA sequence S000019290 (RDP), AJ007404 (Genbank). GOLD ID: Gc00159. GCAT ID: 000451_GCAT. Entrez genome id: 9605. Sequenced strain: TT01 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3260

Photorhabdus luminescens subsp. thracensis^{VP} Hazir et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15199. High-quality 16S rRNA sequence S000323373 (RDP), AJ560634 (Genbank). N4Lid 10.1601/nm.8779

Photorhabdus asymbiotica subsp. asymbiotica^{VP} Fischer-Le Saux et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43950. GOLD ID: Gi00448. GCAT ID: 001362_GCAT. Sequenced strain: ATCC 43949 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.3261

Photorhabdus asymbiotica subsp. australis^{VP} Akhurst et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108025. High-quality 16S rRNA sequence S000368258 (RDP), AY280572 (Genbank). N4Lid 10.1601/nm.8777

Photorhabdus temperata^{VP} Fischer-Le Saux et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 105563. High-quality 16S rRNA sequence S000019291 (RDP), AJ007405 (Genbank). N4Lid DOI: 10.1601/nm.3262

Genus Plesiomonas^{AL} corrig. Habs and Schubert 1962. N4Lid DOI: 10.1601/nm.3263

Plesiomonas shigelloides^{AL} corrig. (Bader 1954) Habs and Schubert 1962. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14029. High-quality 16S rRNA sequence S000009282 (RDP), X74688 (Genbank). N4Lid DOI: 10.1601/nm.3264

- Genus *Pragia*** ^{VP} Aldová et al. 1988. N4Lid DOI: 10.1601/nm.3265
- Pragia fontium* ^{VP} Aldová et al. 1988. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49100. High-quality 16S rRNA sequence S000022757 (RDP), AJ233424 (Genbank). N4Lid DOI: 10.1601/nm.3266
- Genus *Proteus*** ^{AL} Hauser 1885. N4Lid DOI: 10.1601/nm.3267
- Proteus vulgaris* ^{AL} Hauser 1885. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13315. High-quality 16S rRNA sequence S000004373 (RDP), AJ233425 (Genbank). N4Lid DOI: 10.1601/nm.3268
- Proteus hauseri* ^{VP} O'Hara et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700826. N4Lid DOI: 10.1601/nm.3269
- Proteus inconstans* ^{AL} (Ornstein 1920) Shaw and Clarke 1955. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 9886. N4Lid DOI: 10.1601/nm.3270
- Proteus mirabilis* ^{AL} Hauser 1885. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29906. High-quality 16S rRNA sequence S000000179 (RDP), AF008582 (Genbank). GOLD ID: Gi00487. GCAT ID: 001379_GCAT. Genome sequence is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 2 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3271
- Proteus morgani* ^{AL} (Winslow et al. 1919) Yale 1939. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25830. N4Lid DOI: 10.1601/nm.3272
- Proteus myxofaciens* ^{AL} Cosenza and Podgwaite 1966. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19692. N4Lid DOI: 10.1601/nm.3273
- Proteus penneri* ^{VP} Hickman et al. 1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33519. N4Lid DOI: 10.1601/nm.3274
- Proteus rettgeri* ^{AL} (Hadley et al. 1918) Rustigian and Stuart 1943. == *Providencia rettgeri* (later homotypic synonym), links through 10.1601/ex.3275. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 4542. High-quality 16S rRNA sequence S000544654 (RDP), AM040492 (Genbank). N4Lid DOI: 10.1601/nm.3275
- † *Providencia rettgeri* ^{AL} (Hadley 1918) Brenner et al. 1978. == *Proteus rettgeri* (earlier homotypic synonym), links through 10.1601/ex.3275. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29944. High-quality 16S rRNA sequence S000544654 (RDP), AM040492 (Genbank). N4Lid DOI: 10.1601/nm.3280
- Genus *Providencia*** ^{AL} Ewing 1962. N4Lid DOI: 10.1601/nm.3276
- Providencia alcalifaciens* ^{AL} (de Salles Gomes 1944) Ewing 1962. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 9886. N4Lid DOI: 10.1601/nm.3277
- Providencia heimbachae* ^{VP} Müller et al. 1986. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35613. High-quality 16S rRNA sequence S000544652 (RDP), AM040490 (Genbank). N4Lid DOI: 10.1601/nm.3279
- † *Providencia friedericianae* ^{VP} Müller 1983. ≈ *Providencia rustigianii* (earlier heterotypic synonym), links through 10.1601/nm.3281. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 2620. N4Lid DOI: 10.1601/nm.3278
- Providencia rustigianii* ^{VP} Hickman-Brenner et al. 1983. ≈ *Providencia friedericianae* (later heterotypic synonym), links through 10.1601/nm.3281. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33673. High-quality 16S rRNA sequence S000544651 (RDP), AM040489 (Genbank). N4Lid DOI: 10.1601/nm.3281
- Providencia stuartii* ^{AL} (Buttiaux et al. 1954) Ewing 1962. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29914. High-quality 16S rRNA sequence S000001277 (RDP), AF008581 (Genbank). N4Lid DOI: 10.1601/nm.3282
- Providencia vermicola* ^{VP} Somvanshi et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17385. High-quality 16S rRNA sequence S000544657 (RDP), AM040495 (Genbank). N4Lid 10.1601/nm.9949
- Genus *Rahnella*** ^{VP} Izard et al. 1981. N4Lid DOI: 10.1601/nm.3283

Rahnella aquatilis^{VP} Izard et al. 1981. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33071. High-quality 16S rRNA sequence S000002387 (RDP), AJ233426 (Genbank). N4Lid DOI: 10.1601/nm.3284

Genus *Raoultella*^{VP} Drancourt et al. 2001. N4Lid DOI: 10.1601/nm.3285

Raoultella planticola^{VP} (Bagley et al. 1982) Drancourt et al. 2001. <== *Klebsiella planticola* (basonym). Synonym links through N4Lid: 10.1601/ex.3211. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33531. High-quality 16S rRNA sequence S000387364 (RDP), AF129443 (Genbank). N4Lid DOI: 10.1601/nm.3286

† *Klebsiella trevisanii*^{VP} Ferragut et al. 1983. ≈ *Raoultella planticola* (earlier heterotypic synonym), links through 10.1601/nm.3286. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33558. N4Lid DOI: 10.1601/nm.3214

† *Klebsiella planticola*^{VP} Bagley et al. 1982. ==> *Raoultella planticola* (new combination). Synonym links through N4Lid: 10.1601/ex.3211. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33531. High-quality 16S rRNA sequence S000387364 (RDP), AF129443 (Genbank). N4Lid DOI: 10.1601/nm.3211

Raoultella ornithinolytica^{VP} (Sakazaki et al. 1989) Drancourt et al. 2001. <== *Klebsiella ornithinolytica* (basonym). Synonym links through N4Lid: 10.1601/ex.3208. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 31898. High-quality 16S rRNA sequence S000387362 (RDP), AF129441 (Genbank). N4Lid DOI: 10.1601/nm.3287

† *Klebsiella ornithinolytica*^{VP} Sakazaki et al. 1989. ==> *Raoultella ornithinolytica* (new combination). Synonym links through N4Lid: 10.1601/ex.3208. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 31898. High-quality 16S rRNA sequence S000387362 (RDP), AF129441 (Genbank). N4Lid DOI: 10.1601/nm.3208

Raoultella terrigena^{VP} (Izard et al. 1981) Drancourt et al. 2001. <== *Klebsiella terrigena* (basonym). Synonym links through N4Lid: 10.1601/ex.3213. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33257. High-quality 16S rRNA sequence S000387363 (RDP), AF129442 (Genbank). N4Lid DOI: 10.1601/nm.3288

† *Klebsiella terrigena*^{VP} Izard et al. 1981. ==> *Raoultella terrigena* (new combination). Synonym links through N4Lid: 10.1601/ex.3213. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33257. High-quality 16S rRNA sequence S000387363 (RDP), AF129442 (Genbank). N4Lid DOI: 10.1601/nm.3213

Genus *Saccharobacter*^{VP} Yaping et al. 1990. N4Lid DOI: 10.1601/nm.3289

Saccharobacter fermentatus^{VP} Yaping et al. 1990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: WVB8512. N4Lid DOI: 10.1601/nm.3290

Genus *Salmonella*^{AL} Lignieres 1900. N4Lid DOI: 10.1601/nm.3291

Salmonella enterica subsp. enterica^{VP} (ex. Kauffmann and Edwards 1952) Le Minor and Popoff 1987. ≈ *Salmonella enteritidis* (later heterotypic synonym), links through 10.1601/nm.3292. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43971. GOLD ID: Gc00066. GCAT ID: 000544_GCAT. Entrez genome id: 236. Sequenced strain: CT18 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 38 (GOLD) 9 (NCBI). N4Lid DOI: 10.1601/nm.3292

† *Salmonella enteritidis*^{AL} (Gaertner 1888) Castellani and Chalmers 1919. ≈ *Salmonella enterica subsp. enterica* (earlier heterotypic synonym), links through 10.1601/nm.3292. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13076. N4Lid DOI: 10.1601/nm.3308

† *Salmonella paratyphi*^{VP} (ex Kayser 1902) Ezaki et al. 2000. ≈ *Salmonella enterica subsp. enterica* (earlier heterotypic synonym), links through 10.1601/nm.3292. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCTC 5702. N4Lid DOI: 10.1601/nm.3309

† *Salmonella typhi*^{AL} (Schroeter 1886) Warren and Scott 1930. ≈ *Salmonella enterica subsp. enterica* (earlier heterotypic synonym), links through 10.1601/nm.3292. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19430. High-quality 16S rRNA sequence S000009313 (RDP), Z47544 (Genbank). N4Lid DOI: 10.1601/nm.3310

† *Salmonella typhimurium*^{AL} (Loeffler 1892) Castellani and Chalmers 1919. ≈ *Salmonella enterica* subsp. *enterica* (earlier heterotypic synonym), links through N4Lid: 10.1601/nm.3292. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13311. High-quality 16S rRNA sequence S000000641 (RDP), X80681 (Genbank). N4Lid DOI: 10.1601/nm.3311

† *Salmonella arizonae*^{AL} (Borman 1957) Kauffmann 1964. ==> *Salmonella choleraesuis* subsp. *arizonae* (new combination). Synonym links through N4Lid: 10.1601/ex.3307. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13314. GOLD ID: Gi00531. GCAT ID: 001445_GCAT. Entrez genome id: 13030. Sequenced strain: ATCC BAA-731 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3307

Salmonella enterica subsp. *arizonae*^{VP} (Borman 1957) Le Minor and Popoff 1987. <== *Salmonella arizonae* (basonym). Synonym links through N4Lid: 10.1601/ex.3307. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13314. GOLD ID: Gi00531. GCAT ID: 001445_GCAT. Entrez genome id: 13030. Sequenced strain: ATCC BAA-731 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3293

† *Salmonella choleraesuis* subsp. *arizonae*^{VP} corrig. (Borman 1957) Le Minor et al. 1985. <== *Salmonella arizonae* (basonym). *Salmonella enterica* subsp. *arizonae* (new combination). Synonym links through N4Lid: 10.1601/ex.3307. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13314. GOLD ID: Gi00531. GCAT ID: 001445_GCAT. Entrez genome id: 13030. Sequenced strain: ATCC BAA-731 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3301

Salmonella enterica subsp. *diarizonae*^{VP} (Le Minor et al. 1985) Le Minor and Popoff 1987. <== *Salmonella choleraesuis* subsp. *diarizonae* (basonym). Synonym links through N4Lid: 10.1601/ex.3303. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43973. GOLD ID: Gi00533. GCAT ID: 001446_GCAT. Entrez genome id: 13031. Sequenced strain: ATCC BAA-639 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3295

† *Salmonella choleraesuis* subsp. *diarizonae*^{VP} corrig. Le Minor et al. 1985. ==> *Salmonella enterica* subsp. *diarizonae* (new combination). Synonym links through N4Lid: 10.1601/ex.3303. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43973. GOLD ID: Gi00533. GCAT ID: 001446_GCAT. Entrez genome id: 13031. Sequenced strain: ATCC BAA-639 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3303

Salmonella enterica subsp. *houtenae*^{VP} (Le Minor et al. 1985) Le Minor and Popoff 1987. <== *Salmonella choleraesuis* subsp. *houtenae* (basonym). Synonym links through N4Lid: 10.1601/ex.3304. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43974. N4Lid DOI: 10.1601/nm.3296

† *Salmonella choleraesuis* subsp. *houtenae*^{VP} corrig. Le Minor et al. 1985. ==> *Salmonella enterica* subsp. *houtenae* (new combination). Synonym links through N4Lid: 10.1601/ex.3304. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43974. N4Lid DOI: 10.1601/nm.3304

Salmonella enterica subsp. *salamae*^{VP} (Le Minor et al. 1985) Le Minor and Popoff 1987. <== *Salmonella choleraesuis* subsp. *salamae* (basonym). Synonym links through N4Lid: 10.1601/ex.3306. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43972. N4Lid DOI: 10.1601/nm.3298

† *Salmonella choleraesuis* subsp. *salamae*^{VP} corrig. Le Minor et al. 1985. ==> *Salmonella enterica* subsp. *salamae* (new combination). Synonym links through N4Lid: 10.1601/ex.3306. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43972. N4Lid DOI: 10.1601/nm.3306

Salmonella bongori^{VP} (Le Minor et al. 1985) Reeves et al. 1989. <== *Salmonella choleraesuis* subsp. *bongori* (basonym). Synonym links through N4Lid: 10.1601/ex.3302. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43975. GOLD ID: Gi00530. GCAT ID: 001444_GCAT. Entrez genome id: 351. Sequenced strain: ATCC 43975

is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3299

Salmonella enterica subsp. *bongori*^{VP} (Le Minor et al. 1985) Le Minor and Popoff 1987. <== *Salmonella choleraesuis* subsp. *bongori* (basonym). *Salmonella bongori* (new combination).
Synonym links through N4Lid: 10.1601/ex.3302. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43975. GOLD ID: Gi00530. GCAT ID: 001444_GCAT. Entrez genome id: 351. Sequenced strain: ATCC 43975 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3294

† *Salmonella choleraesuis* subsp. *bongori*^{VP} corrig. Le Minor et al. 1985. ==> *Salmonella enterica* subsp. *bongori* (new combination). Synonym links through N4Lid: 10.1601/ex.3302. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43975. GOLD ID: Gi00530. GCAT ID: 001444_GCAT. Entrez genome id: 351. Sequenced strain: ATCC 43975 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3302

† *Salmonella choleraesuis* subsp. *indica*^{VP} Le Minor et al. 1987. ==> *Salmonella enterica* subsp. *indica* (new combination). Synonym links through N4Lid: 10.1601/ex.3305. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43976. N4Lid DOI: 10.1601/nm.3305

† *Salmonella choleraesuis* subsp. *choleraesuis*^{VP} corrig. (Smith 1894) Weldin 1927. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13076. N4Lid DOI: 10.1601/nm.3300

Salmonella enterica subsp. *indica*^{VP} (Le Minor et al. 1987) Le Minor and Popoff 1987. <== *Salmonella choleraesuis* subsp. *indica* (basonym). Synonym links through N4Lid: 10.1601/ex.3305. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43976. N4Lid DOI: 10.1601/nm.3297

Salmonella subterranea^{VP} Shelobolina et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-836. High-quality 16S rRNA sequence S000358338 (RDP), AY373829 (Genbank). N4Lid 10.1601/nm.9300

Genus *Samsonia*^{VP} Sutra et al. 2001. N4Lid DOI: 10.1601/nm.3312

Samsonia erythrinae^{VP} Sutra et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CFBP 5236. High-quality 16S rRNA sequence S000390457 (RDP), AF273037 (Genbank). N4Lid DOI: 10.1601/nm.3313

Genus *Serratia*^{AL} Bizio 1823. N4Lid DOI: 10.1601/nm.3314

Serratia marcescens subsp. *marcescens*^{VP} Bizio 1823. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13880. High-quality 16S rRNA sequence S000436523 (RDP), M59160 (Genbank). GOLD ID: Gi00549. GCAT ID: 001481_GCAT. Entrez genome id: 406. Sequenced strain: Db11 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3315

Serratia marcescens subsp. *sakuensis*^{VP} Ajithkumar et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-885. N4Lid DOI: 10.1601/nm.3316

Serratia entomophila^{VP} Grimont et al. 1988. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43705. High-quality 16S rRNA sequence S000015406 (RDP), AJ233427 (Genbank). N4Lid DOI: 10.1601/nm.3317

Serratia ficaria^{VP} Grimont et al. 1981. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33105. High-quality 16S rRNA sequence S000381740 (RDP), AB004745 (Genbank). N4Lid DOI: 10.1601/nm.3318

Serratia fonticola^{AL} Gavini et al. 1979. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29844. High-quality 16S rRNA sequence S000007381 (RDP), AJ233429 (Genbank). N4Lid DOI: 10.1601/nm.3319

Serratia grimesii^{VP} Grimont et al. 1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14460. High-quality 16S rRNA sequence S000020768 (RDP), AJ233430 (Genbank). N4Lid DOI: 10.1601/nm.3320

Serratia liquefaciens^{AL} (Grimes and Hennerty 1931) Bascomb et al. 1971. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27592. High-quality 16S rRNA sequence S000381747 (RDP), AB004752 (Genbank). N4Lid DOI: 10.1601/nm.3321

Serratia odorifera^{AL} Grimont et al. 1978. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33077. High-quality 16S rRNA sequence S000390695 (RDP), AF286870 (Genbank). N4Lid DOI: 10.1601/nm.3323

Serratia plymuthica^{AL} (Lehmann and Neumann 1896) Breed et al. 1948. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 183. High-quality 16S rRNA sequence S000390697 (RDP), AF286872 (Genbank). N4Lid DOI: 10.1601/nm.3324

Serratia proteamaculans subsp. proteamaculans^{VP} (Paine and Stansfield 1919) Grimont et al. 1978. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19323. High-quality 16S rRNA sequence S000012783 (RDP), AJ233434 (Genbank). GOLD ID: Gi01353. GCAT ID: 001770_GCAT. Entrez genome id: 17459. Sequenced strain: 568 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3325

Serratia quinivorans^{VP} corrig. (Grimont et al. 1983) Ashelford et al. 2002. <== *Serratia proteamaculans subsp. quinovora* (basonym). Synonym links through N4Lid: 10.1601/ex.3326. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33765. N4Lid DOI: 10.1601/nm.3327

† *Serratia proteamaculans subsp. quinovora*^{VP} Grimont et al. 1983. ==> *Serratia quinivorans* (new combination). Synonym links through N4Lid: 10.1601/ex.3326. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33765. N4Lid DOI: 10.1601/nm.3326

† *Serratia marinorubra*^{AL} ZoBell and Upham 1944. == *Serratia rubidaea* (earlier homotypic synonym), links through 10.1601/ex.3328. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27593. High-quality 16S rRNA sequence S000381746 (RDP), AB004751 (Genbank). N4Lid DOI: 10.1601/nm.3322

Serratia rubidaea^{AL} (Stapp 1940) Ewing et al. 1973. == *Serratia marinorubra* (later homotypic synonym), links through 10.1601/ex.3328. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27593. High-quality 16S rRNA sequence S000381746 (RDP), AB004751 (Genbank). N4Lid DOI: 10.1601/nm.3328

Serratia ureilytica^{VP} Bhadra et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 50595. High-quality 16S rRNA sequence S000531179 (RDP), AJ854062 (Genbank). N4Lid 10.1601/nm.9635

Genus *Shigella*^{AL} Castellani and Chalmers 1919. N4Lid DOI: 10.1601/nm.3329

Shigella dysenteriae^{AL} (Shiga 1897, corrig.) Castellani and Chalmers 1919. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13313. High-quality 16S rRNA sequence S000000258 (RDP), X96966 (Genbank). GOLD ID: Gc00324. GCAT ID: 000286_GCAT. Entrez genome id: 13145. Sequenced strain: Sd197 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 3 (GOLD) 3 (NCBI). N4Lid DOI: 10.1601/nm.3330

Shigella boydii^{AL} Ewing 1949. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1247. High-quality 16S rRNA sequence S000540329 (RDP). GOLD ID: Gc00322. GCAT ID: 000288_GCAT. Entrez genome id: 13146. Sequenced strain: Sb227 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 2 (GOLD) 2 (NCBI). N4Lid DOI: 10.1601/nm.3331

Shigella flexneri^{AL} Castellani and Chalmers 1919. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29903. High-quality 16S rRNA sequence S000013935 (RDP), X96963 (Genbank). GOLD ID: Gc00106. GCAT ID: 000504_GCAT. Entrez genome id: 310. Sequenced strain: 301 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 3 (GOLD) 3 (NCBI). N4Lid DOI: 10.1601/nm.3332

Shigella sonnei^{AL} (Levine 1920) Weldin 1927. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29930. High-quality 16S rRNA sequence S000528933 (RDP). GOLD ID: Gc00323. GCAT ID: 000287_GCAT. Entrez genome id: 13151. Sequenced strain: Ss046 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 2 (GOLD) 2 (NCBI). N4Lid DOI: 10.1601/nm.3333

Genus *Sodalis* ^{VP} Dale and Maudlin 1999. N4Lid DOI: 10.1601/nm.3334

Sodalis glossinidius ^{VP} Dale and Maudlin 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCIMB 13495. High-quality 16S rRNA sequence S000617646 (RDP). GOLD ID: Gc00337. GCAT ID: 000273_GCAT. Entrez genome id: 16309. Sequenced strain: morsitans is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3335

Genus *Thorsellia* ^{VP} Kämpfer et al. 2006. N4Lid 10.1601/nm.9888

Thorsellia anophelis ^{VP} Kämpfer et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 49520. High-quality 16S rRNA sequence S000618457 (RDP), AY837748 (Genbank). N4Lid 10.1601/nm.9887

Genus *Tatumella* ^{VP} Hollis et al. 1982. N4Lid DOI: 10.1601/nm.3336

Tatumella ptyseos ^{VP} Hollis et al. 1982. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33301. High-quality 16S rRNA sequence S000018554 (RDP), AJ233437 (Genbank). N4Lid DOI: 10.1601/nm.3337

Genus *Trabulsiella* ^{VP} McWhorter et al. 1992. N4Lid DOI: 10.1601/nm.3338

Trabulsiella guamensis ^{VP} McWhorter et al. 1992. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49490. N4Lid DOI: 10.1601/nm.3339

Genus *Wigglesworthia* ^{VP} Aksoy 1995. N4Lid DOI: 10.1601/nm.3340

Wigglesworthia glossinidia ^{VP} Aksoy 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: no culture isolated. GOLD ID: Gc00107. GCAT ID: 000503_GCAT. Entrez genome id: 274. Sequenced strain: P-endosymbiont is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3341

Genus *Xenorhabdus* ^{AL} Thomas and Poinar 1979. N4Lid DOI: 10.1601/nm.3342

Xenorhabdus nematophila subsp. nematophila ^{VP} corrig. (Poinar and Thomas 1965) Thomas and Poinar 1979. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19061. High-quality 16S rRNA sequence S000413913 (RDP), D78009 (Genbank). GOLD ID: Gi00699. GCAT ID: 001705_GCAT. Entrez genome id: 13400. Sequenced strain: ATCC 19061 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3343

Xenorhabdus beddingii ^{VP} (Akhurst 1986) Akhurst and Boemare 1993. <== *Xenorhabdus nematophila subsp. beddingii* (basonym). Synonym links through N4Lid: 10.1601/ex.3344. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49542. High-quality 16S rRNA sequence S000413910 (RDP), D78006 (Genbank). N4Lid DOI: 10.1601/nm.3347

† *Xenorhabdus nematophila subsp. beddingii* ^{VP} corrig. Akhurst 1986. ==> *Xenorhabdus beddingii* (new combination). Synonym links through N4Lid: 10.1601/ex.3344. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49542. High-quality 16S rRNA sequence S000413910 (RDP), D78006 (Genbank). N4Lid DOI: 10.1601/nm.3344

Xenorhabdus bovienii ^{VP} (Akhurst 1983) Akhurst and Boemare 1993. <== *Xenorhabdus nematophila subsp. bovienii* (basonym). Synonym links through N4Lid: 10.1601/ex.3345. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35271. High-quality 16S rRNA sequence S000413911 (RDP), D78007 (Genbank). GOLD ID: Gi00698. GCAT ID: 001704_GCAT. Entrez genome id: 13399. Genome sequence is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3348

† *Xenorhabdus nematophila subsp. bovienii* ^{VP} corrig. Akhurst 1983. ==> *Xenorhabdus bovienii* (new combination). Synonym links through N4Lid: 10.1601/ex.3345. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35271. High-quality 16S rRNA sequence S000413911 (RDP), D78007 (Genbank). GOLD ID: Gi00698. GCAT ID: 001704_GCAT. Entrez genome id: 13399. Genome sequence is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3345

Xenorhabdus budapestensis^{VP} Lengyel et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16342. High-quality 16S rRNA sequence S000539633 (RDP), AJ810293 (Genbank). N4Lid 10.1601/nm.9482

Xenorhabdus ehlersii^{VP} Lengyel et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16337. High-quality 16S rRNA sequence S000539634 (RDP), AJ810294 (Genbank). N4Lid 10.1601/nm.9483

Xenorhabdus innexi^{VP} Lengyel et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16336. High-quality 16S rRNA sequence S000539632 (RDP), AJ810292 (Genbank). N4Lid 10.1601/nm.9484

Xenorhabdus japonica^{VP} corrig. Nishimura et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: IAM 14265. High-quality 16S rRNA sequence S000413912 (RDP), D78008 (Genbank). N4Lid DOI: 10.1601/nm.3349

† *Xenorhabdus nematophila subsp. poinarii*^{VP} corrig. Akhurst 1983. ==> *Xenorhabdus poinarii* (new combination). Synonym links through N4Lid: 10.1601/ex.3346. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35272. High-quality 16S rRNA sequence S000413914 (RDP), D78010 (Genbank). N4Lid DOI: 10.1601/nm.3346

Xenorhabdus poinarii^{VP} (Akhurst 1983) Akhurst and Boemare 1993. <== *Xenorhabdus nematophila subsp. poinarii* (basonym). Synonym links through N4Lid: 10.1601/ex.3346. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35272. High-quality 16S rRNA sequence S000413914 (RDP), D78010 (Genbank). N4Lid DOI: 10.1601/nm.3351

Xenorhabdus szentirmaii^{VP} Lengyel et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16338. High-quality 16S rRNA sequence S000539635 (RDP), AJ810295 (Genbank). N4Lid 10.1601/nm.9485

Genus *Yersinia*^{AL} van Loghem 1944. N4Lid DOI: 10.1601/nm.3352

Yersinia pestis^{AL} (Lehmann and Neumann 1896) van Loghem 1944. Conserved name. *Yersinia pseudotuberculosis pestis* (rejected name). Synonym links through N4Lid: 10.1601/ex.3353. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19428. High-quality 16S rRNA sequence S000392506 (RDP), AF366383 (Genbank). GOLD ID: Gc00064. GCAT ID: 000546_GCAT. Entrez genome id: 34. Sequenced strain: CO-92 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 17 (GOLD) 14 (NCBI). N4Lid DOI: 10.1601/nm.3353

† *Yersinia pseudotuberculosis subsp. pestis*^{VP} (Lehmann and Neumann 1896) Bercovier et al. 1981. Rejected name. *Yersinia pestis* (conserved name). Synonym links through N4Lid: 10.1601/ex.3353. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19428. GOLD ID: Gc00064. GCAT ID: 000546_GCAT. Entrez genome id: 34. Sequenced strain: CO-92 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 17 (GOLD) 14 (NCBI). N4Lid DOI: 10.1601/nm.3364

Yersinia aldovae^{VP} Bercovier et al. 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35236. High-quality 16S rRNA sequence S000008976 (RDP), X75277 (Genbank). N4Lid DOI: 10.1601/nm.3354

Yersinia aleksiciae^{VP} Sprague and Neubauer 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14987. High-quality 16S rRNA sequence S000539480 (RDP), AJ627597 (Genbank). N4Lid 10.1601/nm.9367

Yersinia bercovieri^{VP} Wauters et al. 1988. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43970. High-quality 16S rRNA sequence S000392500 (RDP), AF366377 (Genbank). GOLD ID: Gi01169. GCAT ID: 001711_GCAT. Entrez genome id: 16104. Sequenced strain: ATCC 43970 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3355

Yersinia enterocolitica subsp. enterocolitica^{VP} (Schleifstein and Coleman 1939) Frederiksen 1964. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 9610. High-quality 16S rRNA sequence S000436530 (RDP), M59292 (Genbank). GOLD ID: Gc00481. GCAT ID: 000001_GCAT. Entrez genome id: 190. Sequenced strain: 8081 (serotype 0:8) is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3356

Yersinia enterocolitica subsp. *palaearctica* ^{VP} Neubauer et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13030. N4Lid DOI: 10.1601/nm.3357

Yersinia frederiksenii ^{VP} Ursing et al. 1981. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33641. High-quality 16S rRNA sequence S000392502 (RDP), AF366379 (Genbank). GOLD ID: Gi01170. GCAT ID: 001712_GCAT. Entrez genome id: 16106. Sequenced strain: ATCC 33641 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3358

Yersinia intermedia ^{VP} Brenner et al. 1981. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29909. High-quality 16S rRNA sequence S000392503 (RDP), AF366380 (Genbank). GOLD ID: Gi01171. GCAT ID: 001713_GCAT. Entrez genome id: 16107. Sequenced strain: ATCC 29909 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3359

Yersinia kristensenii ^{VP} Bercovier et al. 1981. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33638. High-quality 16S rRNA sequence S000392504 (RDP), AF366381 (Genbank). N4Lid DOI: 10.1601/nm.3360

Yersinia mollaretii ^{VP} Wauters et al. 1988. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43969. High-quality 16S rRNA sequence S000392505 (RDP), AF366382 (Genbank). GOLD ID: Gi01172. GCAT ID: 001714_GCAT. Entrez genome id: 16105. Sequenced strain: ATCC 43969 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3361

Yersinia pseudotuberculosis subsp. *pseudotuberculosis* ^{VP} (Pfeiffer 1889) Smith and Thal 1965. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29833. High-quality 16S rRNA sequence S000392498 (RDP), AF366375 (Genbank). GOLD ID: Gc00210. GCAT ID: 000400_GCAT. Entrez genome id: 12950. Sequenced strain: IP32953 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 2 (GOLD) 2 (NCBI). N4Lid DOI: 10.1601/nm.3363

Yersinia rohdei ^{VP} Aleksic et al. 1987. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43380. High-quality 16S rRNA sequence S000392507 (RDP), AF366384 (Genbank). N4Lid DOI: 10.1601/nm.3365

Yersinia ruckeri ^{AL} Ewing et al. 1978. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29473. High-quality 16S rRNA sequence S000011663 (RDP), X75275 (Genbank). N4Lid DOI: 10.1601/nm.3366

Genus *Yokenella* ^{VP} Kosako et al. 1985. ≈ *Yokenella* (later heterotypic synonym), links through 10.1601/nm.3367. N4Lid DOI: 10.1601/nm.3367

† *Koserella trabulsii* ^{VP} Hickman-Brenner et al. 1985. ≈ *Yokenella regensburgei* (earlier heterotypic synonym), links through 10.1601/nm.3368. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35313. N4Lid 10.1601/nm.9133

Yokenella regensburgei ^{VP} Kosako et al. 1985. ≈ *Koserella trabulsii* (later heterotypic synonym), links through 10.1601/nm.3368. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35313. N4Lid DOI: 10.1601/nm.3368

Order Pasteurellales ^{VP} Garrity et al 2005. N4Lid DOI: 10.1601/nm.3369

Family Pasteurellaceae ^{VP} Pohl 1981. N4Lid DOI: 10.1601/nm.3370

Genus *Pasteurella* ^{AL} Trevisan 1887. N4Lid DOI: 10.1601/nm.3371

Pasteurella multocida subsp. *multocida* ^{VP} (Lehmann and Neumann 1899) Rosenbusch and Merchant 1939. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43137. High-quality 16S rRNA sequence S000436253 (RDP), M35018 (Genbank). GOLD ID: Gc00048. GCAT ID: 000562_GCAT. Entrez genome id: 39. Sequenced strain: Pm70 type A is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 2 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3372

Pasteurella multocida subsp. *gallicida* ^{VP} Mutters et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51689. High-quality 16S rRNA sequence S000448051 (RDP), AY078998 (Genbank). N4Lid DOI: 10.1601/nm.3373

Pasteurella multocida subsp. septica^{VP} Mutters et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51687. High-quality 16S rRNA sequence S000448053 (RDP), AY079000 (Genbank). N4Lid DOI: 10.1601/nm.3374

Pasteurella aerogenes^{AL} McAllister and Carter 1974. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27883. High-quality 16S rRNA sequence S000438222 (RDP), U66491 (Genbank). N4Lid DOI: 10.1601/nm.3375

Pasteurella bettyae^{VP} corrig. Sneath and Stevens 1990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23273. High-quality 16S rRNA sequence S000414299 (RDP), L06088 (Genbank). N4Lid DOI: 10.1601/nm.3378

Pasteurella caballi^{VP} Schlater et al. 1990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49197. N4Lid DOI: 10.1601/nm.3379

Pasteurella canis^{VP} Mutters et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43326. High-quality 16S rRNA sequence S000436678 (RDP), M75049 (Genbank). N4Lid DOI: 10.1601/nm.3380

Pasteurella dagmatis^{VP} Mutters et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43325. High-quality 16S rRNA sequence S000436680 (RDP), M75051 (Genbank). N4Lid DOI: 10.1601/nm.3381

† *Pasteurella gallicida*^{AL} (Burrill 1883) Buchanan 1925 (**Rejected name**) Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCTC 10322. High-quality 16S rRNA sequence S000448052 (RDP), AY078999 (Genbank). N4Lid DOI: 10.1601/nm.3382

Pasteurella langaensis^{VP} corrig. Mutters et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43328. High-quality 16S rRNA sequence S000436682 (RDP), M75053 (Genbank). N4Lid DOI: 10.1601/nm.3386

Pasteurella lymphangitidis^{VP} Sneath and Stevens 1990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49635. N4Lid DOI: 10.1601/nm.3387

Pasteurella mairii^{VP} corrig. Sneath and Stevens 1990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49633. High-quality 16S rRNA sequence S000427743 (RDP), AF024532 (Genbank). N4Lid DOI: 10.1601/nm.3388

Pasteurella pneumotropica^{AL} Jawetz 1950. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35149. High-quality 16S rRNA sequence S000436712 (RDP), M75083 (Genbank). N4Lid DOI: 10.1601/nm.3389

Pasteurella skyensis^{VP} Birkbeck et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCIMB 13593. High-quality 16S rRNA sequence S000019875 (RDP), AJ243202 (Genbank). N4Lid DOI: 10.1601/nm.3390

Pasteurella stomatis^{VP} Mutters et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43327. High-quality 16S rRNA sequence S000436679 (RDP), M75050 (Genbank). N4Lid DOI: 10.1601/nm.3391

Pasteurella testudinis^{VP} Snipes and Biberstein 1982. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33688. High-quality 16S rRNA sequence S000414301 (RDP), L06090 (Genbank). N4Lid DOI: 10.1601/nm.3392

Pasteurella trehalosi^{VP} Sneath and Stevens 1990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29703. N4Lid DOI: 10.1601/nm.3393

Genus *Actinobacillus*^{AL} Brumpton 1910. N4Lid DOI: 10.1601/nm.3396

Actinobacillus lignieresii^{AL} Brumpton 1910. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49236. High-quality 16S rRNA sequence S000436697 (RDP), M75068 (Genbank). N4Lid DOI: 10.1601/nm.3397

Actinobacillus arthritidis^{VP} Christensen et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13376. N4Lid DOI: 10.1601/nm.3399

Actinobacillus capsulatus^{AL} Arseculeratne 1962. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51571. High-quality 16S rRNA sequence S000436698 (RDP), M75069 (Genbank). N4Lid DOI: 10.1601/nm.3400

Actinobacillus delphinicola^{VP} Foster et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700179. N4Lid DOI: 10.1601/nm.3401

Actinobacillus equuli subsp. *equuli*^{VP} (van Straaten 1918) Haupt 1934. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19392. High-quality 16S rRNA sequence S000436701 (RDP), M75072 (Genbank). N4Lid DOI: 10.1601/nm.3402

Actinobacillus equuli subsp. *haemolyticus*^{VP} Christensen et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 19799. N4Lid DOI: 10.1601/nm.3403

Actinobacillus hominis^{VP} Friis-Møller 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49457. High-quality 16S rRNA sequence S000414287 (RDP), L06076 (Genbank). N4Lid DOI: 10.1601/nm.3404

Actinobacillus indolicus^{VP} Møller et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 39029. High-quality 16S rRNA sequence S000438119 (RDP), U65584 (Genbank). N4Lid DOI: 10.1601/nm.3405

Actinobacillus minor^{VP} Møller et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 38923. High-quality 16S rRNA sequence S000438117 (RDP), U65582 (Genbank). N4Lid DOI: 10.1601/nm.3406

Actinobacillus muris^{VP} Bisgaard 1988. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49577. High-quality 16S rRNA sequence S000427737 (RDP), AF024526 (Genbank). N4Lid DOI: 10.1601/nm.3407

Actinobacillus pleuropneumoniae^{VP} (Shope 1964) Pohl et al. 1983. <== *Haemophilus pleuropneumoniae* (basonym). Synonym links through N4Lid: 10.1601/ex.3437. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27088. GOLD ID: Gi00011. GCAT ID: 000642_GCAT. Entrez genome id: 9617. Sequenced strain: Shope 4074 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 4 (GOLD) 5 (NCBI). N4Lid DOI: 10.1601/nm.3408

† *Haemophilus pleuropneumoniae*^{AL} Shope 1964. ==> *Actinobacillus pleuropneumoniae* (new combination). Synonym links through N4Lid: 10.1601/ex.3437. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27088. High-quality 16S rRNA sequence S000540266 (RDP). GOLD ID: Gi00011. GCAT ID: 000642_GCAT. Entrez genome id: 9617. Sequenced strain: Shope 4074 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 4 (GOLD) 5 (NCBI). N4Lid DOI: 10.1601/nm.3437

Actinobacillus porcinus^{VP} Møller et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 38924. High-quality 16S rRNA sequence S000438118 (RDP), U65583 (Genbank). N4Lid DOI: 10.1601/nm.3409

Actinobacillus rossii^{VP} Sneath and Stevens 1990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27072. N4Lid DOI: 10.1601/nm.3410

Actinobacillus scotiae^{VP} Foster et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 105697. High-quality 16S rRNA sequence S000018802 (RDP), Y09653 (Genbank). N4Lid DOI: 10.1601/nm.3411

Actinobacillus seminis^{VP} (ex Baynes and Simmons 1960) Sneath and Stevens 1990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15768. High-quality 16S rRNA sequence S000436676 (RDP), M75047 (Genbank). N4Lid DOI: 10.1601/nm.3412

Actinobacillus succinogenes^{VP} Guettler et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 55618. High-quality 16S rRNA sequence S000427736 (RDP), AF024525 (Genbank). GOLD ID: Gi00920. GCAT ID: 000646_GCAT. Entrez genome id: 13370. Sequenced strain: ATCC 55618 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3413

Actinobacillus suis^{AL} van Dorssen and Jaartsveld 1962. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33415. High-quality 16S rRNA sequence S000387140 (RDP), AF015299 (Genbank). N4Lid DOI: 10.1601/nm.3414

Actinobacillus ureae^{VP} (Jones 1962) Mutters et al. 1986. <== *Pasteurella ureae* (basonym). Synonym links through N4Lid: 10.1601/ex.3394. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25976. High-quality 16S rRNA sequence S000436704 (RDP), M75075 (Genbank). N4Lid DOI: 10.1601/nm.3415

† *Pasteurella ureae*^{AL} Jones 1962. ==> *Actinobacillus ureae* (new combination). Synonym links through N4Lid: 10.1601/ex.3394. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25976. High-quality 16S rRNA sequence S000436704 (RDP), M75075 (Genbank). N4Lid DOI: 10.1601/nm.3394

Genus *Avibacterium*^{VP} Blackall et al. 2005. N4Lid DOI: 10.1601/nm.8485

Avibacterium gallinarum^{VP} (Hall et al. 1955) Blackall et al. 2005. <== *Pasteurella gallinarum* (basonym). Synonym links through N4Lid: 10.1601/ex.3383. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13361. High-quality 16S rRNA sequence S000436688 (RDP), M75059 (Genbank). N4Lid DOI: 10.1601/nm.8487

† *Pasteurella gallinarum*^{AL} Hall et al. 1955. ==> *Avibacterium gallinarum* (new combination). Synonym links through N4Lid: 10.1601/ex.3383. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13361. High-quality 16S rRNA sequence S000436688 (RDP), M75059 (Genbank). N4Lid DOI: 10.1601/nm.3383

Avibacterium avium^{VP} (Hinze and Kunjara 1977) Blackall et al. 2005. <== *Haemophilus avium* (basonym). Synonym links through N4Lid: 10.1601/ex.3423. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29546. N4Lid DOI: 10.1601/nm.8486

† *Haemophilus avium*^{AL} Hinze and Kunjara 1977. ==> *Pasteurella avium* (new combination). Synonym links through N4Lid: 10.1601/ex.3423. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29546. N4Lid DOI: 10.1601/nm.3423

Pasteurella avium^{VP} (Hinze and Kunjara 1977) Mutters et al. 1985. <== *Haemophilus avium* (basonym). *Avibacterium avium* (new combination). Synonym links through N4Lid: 10.1601/ex.3423. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29546. N4Lid DOI: 10.1601/nm.3377

Avibacterium paragallinarum^{VP} (Biberstein and White 1969) Blackall et al. 2005. <== *Haemophilus paragallinarum* (basonym). Synonym links through N4Lid: 10.1601/ex.3430. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29545. High-quality 16S rRNA sequence S000436686 (RDP), M75057 (Genbank). N4Lid DOI: 10.1601/nm.8488

† *Haemophilus paragallinarum*^{AL} Biberstein and White 1969. ==> *Avibacterium paragallinarum* (new combination). Synonym links through N4Lid: 10.1601/ex.3430. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29545. High-quality 16S rRNA sequence S000436686 (RDP), M75057 (Genbank). N4Lid DOI: 10.1601/nm.3430

Avibacterium volantium^{VP} (Mutters et al. 1985) Blackall et al. 2005. <== *Pasteurella volantium* (basonym). Synonym links through N4Lid: 10.1601/ex.3395. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14385. High-quality 16S rRNA sequence S000436699 (RDP), M75070 (Genbank). N4Lid DOI: 10.1601/nm.8489

† *Pasteurella volantium*^{VP} Mutters et al. 1985. ==> *Avibacterium volantium* (new combination). Synonym links through N4Lid: 10.1601/ex.3395. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14385. High-quality 16S rRNA sequence S000436699 (RDP), M75070 (Genbank). N4Lid DOI: 10.1601/nm.3395

Genus *Gallibacterium*^{VP} Christensen et al. 2003. N4Lid DOI: 10.1601/nm.3416

Gallibacterium anatis^{VP} (Mutters et al. 1985) Christensen et al. 2003. <== *Pasteurella anatis* (basonym). Synonym links through N4Lid: 10.1601/ex.3376. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43329. High-quality 16S rRNA sequence S000436683 (RDP), M75054 (Genbank). N4Lid DOI: 10.1601/nm.3417

† *Pasteurella anatis*^{VP} Mutters et al. 1985. ==> *Gallibacterium anatis* (new combination). Synonym links through N4Lid: 10.1601/ex.3376. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43329. High-quality 16S rRNA sequence S000436683 (RDP), M75054 (Genbank). N4Lid DOI: 10.1601/nm.3376

Genus *Aggregatibacter*^{VP} Nørskov-Lauritsen and Kilian 2006. N4Lid DOI: 10.1601/nm.10300

Aggregatibacter actinomycetemcomitans^{VP} (Klinger 1912) Nørskov-Lauritsen and Kilian 2006. <== *Actinobacillus actinomycetemcomitans* (basonym). Synonym links through N4Lid: 10.1601/ex.3398. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33384. High-quality 16S rRNA sequence S000436668 (RDP), M75039

(Genbank). GOLD ID: Gi00010. GCAT ID: 000641_GCAT. Entrez genome id: 37. Sequenced strain: HK1651 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid 10.1601/nm.9769

† *Actinobacillus actinomycetemcomitans*^{AL} (Klinger 1912) Topley and Wilson 1929. ==> *Haemophilus actinomycetemcomitans* (new combination). Synonym links through N4Lid: 10.1601/ex.3398. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33384. High-quality 16S rRNA sequence S000436668 (RDP), M75039 (Genbank). GOLD ID: Gi00010. GCAT ID: 000641_GCAT. Entrez genome id: 37. Sequenced strain: HK1651 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3398

Haemophilus actinomycetemcomitans^{VP} (Klinger 1912) Potts et al. 1985. <== *Actinobacillus actinomycetemcomitans* (basonym). *Aggregatibacter actinomycetemcomitans* (new combination). Synonym links through N4Lid: 10.1601/ex.3398. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33384. High-quality 16S rRNA sequence S000436668 (RDP), M75039 (Genbank). GOLD ID: Gi00010. GCAT ID: 000641_GCAT. Entrez genome id: 37. Sequenced strain: HK1651 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3420

Aggregatibacter aphrophilus^{VP} (Khairat 1940) Nørskov-Lauritsen and Kilian 2006. <== *Haemophilus aphrophilus* (basonym). Synonym links through N4Lid: 10.1601/ex.3422. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33389. High-quality 16S rRNA sequence S000436670 (RDP), M75041 (Genbank). GOLD ID: Gi000945. GCAT ID: 001111_GCAT. Genome sequence is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 0 (NCBI). N4Lid 10.1601/nm.9784

† *Haemophilus aphrophilus*^{AL} Khairat 1940. ==> *Aggregatibacter aphrophilus* (new combination). Synonym links through N4Lid: 10.1601/ex.3422. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33389. High-quality 16S rRNA sequence S000436670 (RDP), M75041 (Genbank). GOLD ID: Gi000945. GCAT ID: 001111_GCAT. Genome sequence is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.3422

† *Haemophilus paraphrophilus*^{AL} Zinnemann et al. 1968. ≈ *Haemophilus aphrophilus* (later heterotypic synonym), links through 10.1601/nm.3434. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29241. High-quality 16S rRNA sequence S000436671 (RDP), M75042 (Genbank). N4Lid DOI: 10.1601/nm.3434

Aggregatibacter segnis^{VP} (Kilian 1977) Nørskov-Lauritsen and Kilian 2006. <== *Haemophilus segnis* (basonym). Synonym links through N4Lid: 10.1601/ex.3438. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33393. High-quality 16S rRNA sequence S000436672 (RDP), M75043 (Genbank). N4Lid 10.1601/nm.9785

† *Haemophilus segnis*^{AL} Kilian 1977. ==> *Aggregatibacter segnis* (new combination). Synonym links through N4Lid: 10.1601/ex.3438. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33393. High-quality 16S rRNA sequence S000436672 (RDP), M75043 (Genbank). N4Lid DOI: 10.1601/nm.3438

Genus *Haemophilus*^{AL} Winslow et al. 1917. N4Lid DOI: 10.1601/nm.3418

Haemophilus influenzae^{AL} (Lehmann and Neumann 1896) Winslow et al. 1917. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33391. High-quality 16S rRNA sequence S000436254 (RDP), M35019 (Genbank). GOLD ID: Gc00001. GCAT ID: 000609_GCAT. Entrez genome id: 219. Sequenced strain: ATCC 51907 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 20 (GOLD) 18 (NCBI). N4Lid DOI: 10.1601/nm.3419

Haemophilus aegyptius^{AL} (Trevisan 1889) Pittman and Davis 1950. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11116. High-quality 16S rRNA sequence S000436673 (RDP), M75044 (Genbank). N4Lid DOI: 10.1601/nm.3421

Haemophilus ducreyi^{AL} (Neveu-Lemaire 1921) Bergey et al. 1923. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33940. High-quality 16S rRNA sequence S000436707 (RDP), M75078 (Genbank). GOLD ID: Gc00142. GCAT ID: 000468_GCAT. Entrez genome id: 38. Sequenced strain: 35000HP is from a non-type strain.

Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3424

Haemophilus felis^{VP} Inzana et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49733. High-quality 16S rRNA sequence S000389438 (RDP), AF224292 (Genbank). N4Lid DOI: 10.1601/nm.3426

Haemophilus haemoglobinophilus^{AL} (Lehmann and Neumann 1907) Murray 1939. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19416. High-quality 16S rRNA sequence S000436693 (RDP), M75064 (Genbank). N4Lid DOI: 10.1601/nm.3427

Haemophilus haemolyticus^{AL} Bergey et al. 1923. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33390. High-quality 16S rRNA sequence S000436674 (RDP), M75045 (Genbank). N4Lid DOI: 10.1601/nm.3428

Haemophilus paracuniculus^{VP} Targowski and Targowski 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29986. High-quality 16S rRNA sequence S000436690 (RDP), M75061 (Genbank). N4Lid DOI: 10.1601/nm.3429

Haemophilus parahaemolyticus^{AL} Pittman 1953. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 10014. High-quality 16S rRNA sequence S000436702 (RDP), M75073 (Genbank). N4Lid DOI: 10.1601/nm.3431

Haemophilus parainfluenzae^{AL} Rivers 1922. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33392. High-quality 16S rRNA sequence S000436710 (RDP), M75081 (Genbank). GOLD ID: Gi00820. GCAT ID: 001131_GCAT. Sequenced strain: T3T1 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.3432

Haemophilus paraphrohaemolyticus^{AL} Zinnemann et al. 1971. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29237. High-quality 16S rRNA sequence S000436705 (RDP), M75076 (Genbank). N4Lid DOI: 10.1601/nm.3433

Haemophilus parasuis^{AL} Biberstein and White 1969. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19417. High-quality 16S rRNA sequence S000436694 (RDP), M75065 (Genbank). N4Lid DOI: 10.1601/nm.3435

Haemophilus piscium^{AL} Snieszko et al. 1950. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 10801. N4Lid DOI: 10.1601/nm.3436

Haemophilus pittmaniae^{VP} Nørskov-Lauritsen et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 48703. High-quality 16S rRNA sequence S000245507 (RDP), AJ290755 (Genbank). N4Lid DOI: 10.1601/nm.8601

Genus *Histophilus*^{VP} Angen et al. 2003. N4Lid DOI: 10.1601/nm.3440

Histophilus somni^{VP} Angen et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43625. High-quality 16S rRNA sequence S000432787 (RDP), AF549387 (Genbank). N4Lid DOI: 10.1601/nm.3441

Genus *Lonepinella*^{VP} Osawa et al. 1996. N4Lid DOI: 10.1601/nm.3442

Lonepinella koalarum^{VP} Osawa et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700131. High-quality 16S rRNA sequence S000012736 (RDP), Y17189 (Genbank). N4Lid DOI: 10.1601/nm.3443

Genus *Mannheimia*^{VP} Angen et al. 1999. N4Lid DOI: 10.1601/nm.3444

Mannheimia haemolytica^{VP} (Newsom and Cross 1932) Angen et al. 1999. <== *Pasteurella haemolytica* (basonym). Synonym links through N4Lid: 10.1601/ex.3385. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33396. High-quality 16S rRNA sequence S000007235 (RDP), AF060699 (Genbank). GOLD ID: Gi00346. GCAT ID: 001201_GCAT. Sequenced strain: 2 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 2 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3445

† *Pasteurella haemolytica*^{AL} Newsom and Cross 1932. ==> *Mannheimia haemolytica* (new combination). Synonym links through N4Lid: 10.1601/ex.3385. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33396. High-quality 16S rRNA sequence S000007235 (RDP), AF060699 (Genbank). GOLD ID: Gi00346. GCAT ID: 001201_GCAT. Sequenced strain: 2 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 2 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.3385

Mannheimia glucosida^{VP} Angen et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 38457. High-quality 16S rRNA sequence S000428108 (RDP), AF053889 (Genbank). N4Lid DOI: 10.1601/nm.3446

Mannheimia granulomatis^{VP} (Ribeiro et al. 1990) Angen et al. 1999. <== *Pasteurella granulomatis* (basonym). Synonym links through N4Lid: 10.1601/ex.3384. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49244. High-quality 16S rRNA sequence S000428121 (RDP), AF053902 (Genbank). N4Lid DOI: 10.1601/nm.3447

† *Pasteurella granulomatis*^{VP} Ribeiro et al. 1990. ==> *Mannheimia granulomatis* (new combination). Synonym links through N4Lid: 10.1601/ex.3384. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49244. High-quality 16S rRNA sequence S000428121 (RDP), AF053902 (Genbank). N4Lid DOI: 10.1601/nm.3384

Mannheimia ruminalis^{VP} Angen et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 38470. High-quality 16S rRNA sequence S000428119 (RDP), AF053900 (Genbank). N4Lid DOI: 10.1601/nm.3448

Mannheimia varigena^{VP} Angen et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 38462. High-quality 16S rRNA sequence S000428112 (RDP), AF053893 (Genbank). N4Lid DOI: 10.1601/nm.3449

Genus *Nicoletella*^{VP} Kuhnert et al. 2005. N4Lid 10.1601/nm.9291

Nicoletella semolina^{VP} Kuhnert et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16380. High-quality 16S rRNA sequence S000420263 (RDP), AY508816 (Genbank). N4Lid 10.1601/nm.9290

Genus *Phocoenobacter*^{VP} Foster et al. 2000. N4Lid DOI: 10.1601/nm.3450

Phocoenobacter uteri^{VP} Foster et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700972. High-quality 16S rRNA sequence S000007815 (RDP), X89379 (Genbank). N4Lid DOI: 10.1601/nm.3451

Genus *Volucribacter*^{VP} Christensen et al. 2004. N4Lid 10.1601/nm.8905

Volucribacter psittacida^{VP} Christensen et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15534. High-quality 16S rRNA sequence S000356615 (RDP), AY216868 (Genbank). N4Lid 10.1601/nm.8907

Volucribacter amazonae^{VP} Christensen et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15535. High-quality 16S rRNA sequence S000356616 (RDP), AY216869 (Genbank). N4Lid 10.1601/nm.8906

Order "Salinisphaerales" N4Lid DOI: 10.1601/nm.3452

Family "Salinisphaeraceae" N4Lid DOI: 10.1601/nm.3453

Genus *Salinisphaera*^{VP} Antunes et al. 2003. N4Lid DOI: 10.1601/nm.3454

Salinisphaera shabanensis^{VP} Antunes et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14853. High-quality 16S rRNA sequence S000141543 (RDP), AJ421425 (Genbank). N4Lid DOI: 10.1601/nm.3455