

**Taxonomic Outline of the Bacteria and Archaea, Release 7.7 March 6, 2007.**  
**Part 4 – The Bacteria: Phylum “Proteobacteria”, Class Betaproteobacteria**  
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Class *Betaproteobacteria*<sup>VP</sup> Garrity et al 2006. N4Lid DOI: 10.1601/nm.16162

Order *Burkholderiales*<sup>VP</sup> Garrity et al 2006. N4Lid DOI: 10.1601/nm.1617

Family *Burkholderiaceae*<sup>VP</sup> Garrity et al 2006. N4Lid DOI: 10.1601/nm.1618

Genus *Burkholderia*<sup>VP</sup> Yabuuchi et al. 1993. GOLD ID: Gi01836. GCAT ID: 001596\_GCAT.

Sequenced strain: SRMrh-20 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.1619

*Burkholderia cepacia*<sup>VP</sup> (Palleroni and Holmes 1981) Yabuuchi et al. 1993. <== *Pseudomonas cepacia* (basonym). Synonym links through N4Lid: 10.1601/ex.2584. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25416. High-quality 16S rRNA sequence S000438917 (RDP), U96927 (Genbank). GOLD ID: Gc00309. GCAT ID: 000301\_GCAT. Entrez genome id: 10695. Sequenced strain: ATCC 17760, LMG 6991, NCIMB9086 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.1620

† *Pseudomonas cepacia*<sup>VP</sup> (ex Burkholder 1950) Palleroni and Holmes 1981. ==> *Burkholderia cepacia* (new combination). Synonym links through N4Lid: 10.1601/ex.2584. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25416. High-quality 16S rRNA sequence S000438917 (RDP), U96927 (Genbank). GOLD ID: Gc00309. GCAT ID: 000301\_GCAT. Entrez genome id: 10695. Sequenced strain: ATCC 17760, LMG 6991, NCIMB9086 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.2584

*Burkholderia ambifaria*<sup>VP</sup> Coenye et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-244. High-quality 16S rRNA sequence S000735455 (RDP). GOLD ID: Gc00430. GCAT ID: 000180\_GCAT. Entrez genome id: 13490. Sequenced strain: ATCC BAA-244 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 5 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.1621

*Burkholderia andropogonis*<sup>VP</sup> (Smith 1911) Gillis et al. 1995. <== *Pseudomonas andropogonis* (basonym). Synonym links through N4Lid: 10.1601/ex.2561. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23061. High-quality 16S rRNA sequence S000013308 (RDP), AB021422 (Genbank). N4Lid DOI: 10.1601/nm.1622

† *Pseudomonas andropogonis*<sup>AL</sup> (Smith 1911) Stapp 1928. ==> *Burkholderia andropogonis* (new combination). Synonym links through N4Lid: 10.1601/ex.2561. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23061. High-quality 16S rRNA sequence S000013308 (RDP), AB021422 (Genbank). N4Lid DOI: 10.1601/nm.2561

† *Pseudomonas woodsii*<sup>AL</sup> (Smith 1911) Stevens 1925. ~ *Burkholderia andropogonis* (earlier heterotypic synonym), links through 10.1601/nm.1622. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19311. N4Lid DOI: 10.1601/nm.2708

*Burkholderia anthina*<sup>VP</sup> Vandamme et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-698. N4Lid DOI: 10.1601/nm.1623

*Burkholderia caledonica*<sup>VP</sup> Coenye et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-462. High-quality 16S rRNA sequence S000389259 (RDP), AF215704 (Genbank). N4Lid DOI: 10.1601/nm.1624

"*Burkholderia calva*" Van Oevelen et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. High-quality 16S rRNA sequence S000484620 (RDP), AY277697 (Genbank). N4Lid 10.1601/nm.8970

*Burkholderia caribensis*<sup>VP</sup> Achouak et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13236. High-quality 16S rRNA sequence S000012680 (RDP), Y17009 (Genbank). N4Lid DOI: 10.1601/nm.1625

*Burkholderia caryophylli*<sup>VP</sup> (Burkholder 1942) Yabuuchi et al. 1993. <== *Pseudomonas caryophylli* (basonym). Synonym links through N4Lid: 10.1601/ex.2581. Source of type material

recommended for DOE sponsored genome sequencing by the JGI: ATCC 25418. High-quality 16S rRNA sequence S000009277 (RDP), X67039 (Genbank). N4Lid DOI: 10.1601/nm.1626

† *Pseudomonas caryophylli*<sup>AL</sup> (Burkholder 1942) Starr and Burkholder 1942. ==> *Burkholderia caryophylli* (new combination). Synonym links through N4Lid: 10.1601/ex.2581. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25418. High-quality 16S rRNA sequence S000009277 (RDP), X67039 (Genbank). N4Lid DOI: 10.1601/nm.2581

*Burkholderia cenocepacia*<sup>VP</sup> Vandamme et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-245. High-quality 16S rRNA sequence S000388165 (RDP), AF148556 (Genbank). GOLD ID: Gc00389. GCAT ID: 000221\_GCAT. Entrez genome id: 13919. Sequenced strain: AU 1054 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.1627

*Burkholderia cocovenenans*<sup>VP</sup> (van Damme et al. 1960) Zhao et al. 1995. <== *Pseudomonas cocovenenans* (basonym). *Burkholderia cocovenenans* (new combination). Synonym links through N4Lid: 10.1601/ex.2590. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33664. N4Lid DOI: 10.1601/nm.1628

† *Pseudomonas cocovenenans*<sup>AL</sup> van Damme et al. 1960. ==> *Burkholderia cocovenenans* (new combination). Synonym links through N4Lid: 10.1601/ex.2590. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33664. N4Lid DOI: 10.1601/nm.2590

*Burkholderia dolosa*<sup>VP</sup> Vermis et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 47727. GOLD ID: Gi01125. GCAT ID: 000796\_GCAT. Entrez genome id: 16168. Sequenced strain: AUO158 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.8526

*Burkholderia fungorum*<sup>VP</sup> Coenye et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-463. High-quality 16S rRNA sequence S000389260 (RDP), AF215705 (Genbank). N4Lid DOI: 10.1601/nm.1629

*Burkholderia gladioli*<sup>VP</sup> (Severini 1913) Yabuuchi et al. 1993. <== *Pseudomonas gladioli* (basonym). Synonym links through N4Lid: 10.1601/ex.2614. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 10248. High-quality 16S rRNA sequence S000006648 (RDP), X67038 (Genbank). N4Lid DOI: 10.1601/nm.1630

† *Pseudomonas gladioli*<sup>AL</sup> Severini 1913. ==> *Burkholderia gladioli* (new combination). Synonym links through N4Lid: 10.1601/ex.2614. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 10248. High-quality 16S rRNA sequence S000006648 (RDP), X67038 (Genbank). N4Lid DOI: 10.1601/nm.2614

† *Pseudomonas antimicrobica*<sup>VP</sup> Attafua and Bradbury 1990. ≈ *Burkholderia gladioli* (earlier heterotypic synonym), links through 10.1601/nm.1630. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCIMB 9898. N4Lid DOI: 10.1601/nm.2563

*Burkholderia glathei*<sup>VP</sup> (Zolig and Ottow 1975) Vandamme et al. 1997. <== *Pseudomonas glathei* (basonym). *Burkholderia glathei* (new combination). Synonym links through N4Lid: 10.1601/ex.2615. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29195. High-quality 16S rRNA sequence S000003872 (RDP), Y17052 (Genbank). N4Lid DOI: 10.1601/nm.1631

† *Pseudomonas glathei*<sup>AL</sup> Zolig and Ottow 1975. ==> *Burkholderia glathei* (new combination). Synonym links through N4Lid: 10.1601/ex.2615. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29195. High-quality 16S rRNA sequence S000003872 (RDP), Y17052 (Genbank). N4Lid DOI: 10.1601/nm.2615

*Burkholderia glumae*<sup>VP</sup> (Kurita and Tabei 1967) Urakami et al. 1994. <== *Pseudomonas glumae* (basonym). Synonym links through N4Lid: 10.1601/ex.2616. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33617. High-quality 16S rRNA sequence S000015039 (RDP), U96931 (Genbank). GOLD ID: Gi00108. GCAT ID: 000799\_GCAT. Entrez genome id: 13405. Sequenced strain: ATCC 33617 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 2 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.1632

† *Pseudomonas glumae*<sup>AL</sup> Kurita and Tabei 1967. ==> *Burkholderia glumae* (new combination). Synonym links through N4Lid: 10.1601/ex.2616. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33617. High-quality 16S rRNA sequence S000015039 (RDP), U96931 (Genbank). GOLD ID: Gi00108. GCAT ID: 000799\_GCAT. Entrez genome id: 13405. Sequenced strain: ATCC 33617 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 2 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2616

*Burkholderia graminis*<sup>VP</sup> Viillard et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700544. High-quality 16S rRNA sequence S000008217 (RDP), U96939 (Genbank). GOLD ID: Gi01588. GCAT ID: 001735\_GCAT. Sequenced strain: C4D1M is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.1633

*Burkholderia hospita*<sup>VP</sup> Goris et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 43658. High-quality 16S rRNA sequence S000434817 (RDP), AY040365 (Genbank). N4Lid DOI: 10.1601/nm.1634

"*Burkholderia kirkii*" Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. High-quality 16S rRNA sequence S000499934 (RDP), AF475063 (Genbank). N4Lid 10.1601/nm.8985

*Burkholderia kururiensis*<sup>VP</sup> Zhang et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700977. High-quality 16S rRNA sequence S000469284 (RDP), AB024310 (Genbank). N4Lid DOI: 10.1601/nm.1635

*Burkholderia mallei*<sup>VP</sup> (Zopf 1885) Yabuuchi et al. 1993. <== *Pseudomonas mallei* (basonym). Synonym links through N4Lid: 10.1601/ex.2635. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23344. High-quality 16S rRNA sequence U000287132 (RDP). GOLD ID: Gc00216. GCAT ID: 000394\_GCAT. Entrez genome id: 171. Sequenced strain: ATCC 23344 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 9 (GOLD) 11 (NCBI). N4Lid DOI: 10.1601/nm.1636

† *Pseudomonas mallei*<sup>AL</sup> (Zopf 1885) Redfearn et al. 1966. ==> *Burkholderia mallei* (new combination). Synonym links through N4Lid: 10.1601/ex.2635. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23344. GOLD ID: Gc00216. GCAT ID: 000394\_GCAT. Entrez genome id: 171. Sequenced strain: ATCC 23344 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 9 (GOLD) 11 (NCBI). N4Lid DOI: 10.1601/nm.2635

*Burkholderia mimosarum*<sup>VP</sup> Chen et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 23256. High-quality 16S rRNA sequence S000618201 (RDP), AY752958 (Genbank). N4Lid DOI: 10.1601/nm.10239

*Burkholderia multivorans*<sup>VP</sup> Vandamme et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-247. High-quality 16S rRNA sequence S000017474 (RDP), Y18703 (Genbank). GOLD ID: Gi01326. GCAT ID: 001738\_GCAT. Entrez genome id: 17407. Sequenced strain: ATCC 17616 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.1637

"*Burkholderia nigropunctata*" Van Oevelen et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. High-quality 16S rRNA sequence S000484621 (RDP), AY277698 (Genbank). N4Lid 10.1601/nm.8971

*Burkholderia oklahomensis*<sup>VP</sup> Glass et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1222. High-quality 16S rRNA sequence S000711758 (RDP), DQ108392 (Genbank). N4Lid DOI: 10.1601/nm.10289

*Burkholderia phenazinium*<sup>VP</sup> (Bell and Turner 1973) Viillard et al. 1998. <== *Pseudomonas phenazinium* (basonym). Synonym links through N4Lid: 10.1601/ex.2662. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33666. High-quality 16S rRNA sequence S000008216 (RDP), U96936 (Genbank). N4Lid DOI: 10.1601/nm.1639

† *Pseudomonas phenazinium*<sup>AL</sup> Bell and Turner 1973. ==> *Burkholderia phenazinium* (new combination). Synonym links through N4Lid: 10.1601/ex.2662. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33666. High-quality 16S rRNA sequence S000008216 (RDP), U96936 (Genbank). N4Lid DOI: 10.1601/nm.2662

***Burkholderia phenoliruptrix***<sup>VP</sup> Coenye et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 48558. High-quality 16S rRNA sequence S000532739 (RDP), AY435213 (Genbank). N4Lid 10.1601/nm.9281

***Burkholderia phymatum***<sup>VP</sup> Vandamme et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 47179. High-quality 16S rRNA sequence S000130044 (RDP), AJ302312 (Genbank). GOLD ID: Gi01327. GCAT ID: 001739\_GCAT. Entrez genome id: 17409. Sequenced strain: STM815 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.1640

***Burkholderia phytofirmans***<sup>VP</sup> Sessitsch et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 49060. High-quality 16S rRNA sequence S000540546 (RDP), AY497470 (Genbank). GOLD ID: Gi01328. GCAT ID: 001740\_GCAT. Entrez genome id: 17463. Sequenced strain: CCUG 49060 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.9441

***Burkholderia plantarii***<sup>VP</sup> (Azegami et al. 1987) Urakami et al. 1994. <== *Pseudomonas plantarii* (**basonym**). Synonym links through N4Lid: 10.1601/ex.2665. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43733. High-quality 16S rRNA sequence S000016480 (RDP), U96932 (Genbank). N4Lid DOI: 10.1601/nm.1642

† *Pseudomonas plantarii*<sup>VP</sup> Azegami et al. 1987. ==> *Burkholderia plantarii* (**new combination**). Synonym links through N4Lid: 10.1601/ex.2665. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43733. High-quality 16S rRNA sequence S000016480 (RDP), U96932 (Genbank). N4Lid DOI: 10.1601/nm.2665

***Burkholderia vandii***<sup>VP</sup> Urakami et al. 1994. ≈ *Burkholderia plantarii* (**earlier heterotypic synonym**), links through 10.1601/nm.1642. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 16020. High-quality 16S rRNA sequence S000016480 (RDP), U96932 (Genbank). N4Lid DOI: 10.1601/nm.1653

***Burkholderia pseudomallei***<sup>VP</sup> (Whitmore 1913) Yabuuchi et al. 1993. <== *Pseudomonas pseudomallei* (**basonym**). Synonym links through N4Lid: 10.1601/ex.2672. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23343. High-quality 16S rRNA sequence S000711758 (RDP), DQ108392 (Genbank). GOLD ID: Gc00214. GCAT ID: 000396\_GCAT. Entrez genome id: 178. Sequenced strain: K96243 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 11 (GOLD) 11 (NCBI). N4Lid DOI: 10.1601/nm.1643

† *Pseudomonas pseudomallei*<sup>AL</sup> (Whitmore 1913) Haynes 1957. ==> *Burkholderia pseudomallei* (**new combination**). Synonym links through N4Lid: 10.1601/ex.2672. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23343. High-quality 16S rRNA sequence S000711758 (RDP), DQ108392 (Genbank). GOLD ID: Gc00214. GCAT ID: 000396\_GCAT. Entrez genome id: 178. Sequenced strain: K96243 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 11 (GOLD) 11 (NCBI). N4Lid DOI: 10.1601/nm.2672

***Burkholderia pyrrocinia***<sup>VP</sup> (Imanaka et al. 1965) Vandamme et al. 1997. <== *Pseudomonas pyrrocinia* (**basonym**). *Burkholderia pyrrocinia* (**new combination**). Synonym links through N4Lid: 10.1601/ex.2675. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15958. High-quality 16S rRNA sequence S000022474 (RDP), U96930 (Genbank). N4Lid DOI: 10.1601/nm.1644

† *Pseudomonas pyrrocinia*<sup>AL</sup> Imanaka et al. 1965. ==> *Burkholderia pyrrocinia* (**new combination**). Synonym links through N4Lid: 10.1601/ex.2675. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15958. High-quality 16S rRNA sequence S000022474 (RDP), U96930 (Genbank). N4Lid DOI: 10.1601/nm.2675

***Burkholderia sacchari***<sup>VP</sup> Brämer et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 107211. High-quality 16S rRNA sequence S000014055 (RDP), AF263278 (Genbank). N4Lid DOI: 10.1601/nm.1645

***Burkholderia silvatlantica***<sup>VP</sup> Perin et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1244. High-quality 16S rRNA sequence S000515943 (RDP), AY965240 (Genbank). N4Lid DOI: 10.1601/nm.10251



*Burkholderia sordidicola*<sup>VP</sup> Lim et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 11778. High-quality 16S rRNA sequence S000430786 (RDP), AF512826 (Genbank). N4Lid DOI: 10.1601/nm.1648

*Burkholderia stabilis*<sup>VP</sup> Vandamme et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-67. High-quality 16S rRNA sequence S000388163 (RDP), AF148554 (Genbank). N4Lid DOI: 10.1601/nm.1647

*Burkholderia terrae*<sup>VP</sup> Yang et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: KCTC 12388. High-quality 16S rRNA sequence S000470134 (RDP), AB201285 (Genbank). N4Lid 10.1601/nm.9901

*Burkholderia terricola*<sup>VP</sup> Goris et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 44527. High-quality 16S rRNA sequence S000434814 (RDP), AY040362 (Genbank). N4Lid DOI: 10.1601/nm.1649

*Burkholderia thailandensis*<sup>VP</sup> Brett et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700388. High-quality 16S rRNA sequence S000438836 (RDP), U91838 (Genbank). GOLD ID: Gc00333. GCAT ID: 000277\_GCAT. Entrez genome id: 10774. Sequenced strain: ATCC 700388 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.1650

*Burkholderia tropica*<sup>VP</sup> Reis et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-831. High-quality 16S rRNA sequence S000440046 (RDP), AJ420332 (Genbank). N4Lid DOI: 10.1601/nm.8527

*Burkholderia tuberum*<sup>VP</sup> Vandamme et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 47178. High-quality 16S rRNA sequence S000130669 (RDP), AJ302311 (Genbank). GOLD ID: Gi01837. GCAT ID: 000745\_GCAT. Sequenced strain: STM-678T is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.1651

*Burkholderia ubonensis*<sup>VP</sup> corrig. Yabuuchi et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 107078. N4Lid DOI: 10.1601/nm.1652

*Burkholderia unamae*<sup>VP</sup> Caballero-Mellado et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-744. High-quality 16S rRNA sequence S000368094 (RDP), AY221956 (Genbank). GOLD ID: Gi01839. GCAT ID: 000747\_GCAT. Sequenced strain: Mtl-641T is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.8528

*Burkholderia vietnamiensis*<sup>VP</sup> Gillis et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-248. High-quality 16S rRNA sequence S000428013 (RDP), AF043302 (Genbank). GOLD ID: Gi00105. GCAT ID: 000797\_GCAT. Entrez genome id: 10696. Sequenced strain: G4 (R1808) 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.1654

*Burkholderia xenovorans*<sup>VP</sup> Goris et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NRRL B-18064. High-quality 16S rRNA sequence S000469110 (RDP), U86373 (Genbank). GOLD ID: Gc00365. GCAT ID: 000245\_GCAT. Entrez genome id: 254. Sequenced strain: NRRL B-18064 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 2 (NCBI). N4Lid DOI: 10.1601/nm.8529

**Genus *Chitinimonas***<sup>VP</sup> Chang et al. 2004. N4Lid DOI: 10.1601/nm.8539

*Chitinimonas taiwanensis*<sup>VP</sup> Chang et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22011. High-quality 16S rRNA sequence S000407281 (RDP), AY323827 (Genbank). N4Lid DOI: 10.1601/nm.8540

*Chitinimonas koreensis*<sup>VP</sup> Kim et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17726. High-quality 16S rRNA sequence S000620618 (RDP), DQ256728 (Genbank). N4Lid DOI: 10.1601/nm.10232

**Genus *Cupriavidus***<sup>VP</sup> Makkar and Casida 1987. ≈ *Cupriavidus* (later heterotypic synonym), links through 10.1601/nm.1655. N4Lid DOI: 10.1601/nm.1655

*Cupriavidus necator*<sup>VP</sup> Makkar and Casida 1987. ≈ *Wautersia eutropha* (later heterotypic synonym), links through 10.1601/nm.1656. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43291. High-quality 16S rRNA sequence S000388872 (RDP), AF191737 (Genbank). N4Lid DOI: 10.1601/nm.1656

† *Wautersia eutropha*<sup>VP</sup> (Davis 1969) Vanechoutte et al. 2004. <== *Cupriavidus necator* (synonym), *Alcaligenes eutrophus* (basonym). Synonym links through N4Lid: 10.1601/ex.1728. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17697. GOLD ID: Gc00292. GCAT ID: 000317\_GCAT. Entrez genome id: 10646. Sequenced strain: JMP134 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.1690

† *Alcaligenes eutrophus*<sup>AL</sup> Davis 1969. ==> *Ralstonia eutropha* (new combination). Synonym links through N4Lid: 10.1601/ex.1728. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17697. GOLD ID: Gc00292. GCAT ID: 000317\_GCAT. Entrez genome id: 10646. Sequenced strain: JMP134 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.1728

† *Ralstonia eutropha*<sup>VP</sup> (Davis 1969) Yabuuchi et al. 1996. <== *Alcaligenes eutrophus* (basonym). *Wautersia eutropha* (new combination). Synonym links through N4Lid: 10.1601/ex.1728. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17697. High-quality 16S rRNA sequence S000528626 (RDP). GOLD ID: Gc00292. GCAT ID: 000317\_GCAT. Entrez genome id: 10646. Sequenced strain: JMP134 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.1675

*Cupriavidus basilensis*<sup>VP</sup> (Steinle et al. 1999) Vandamme and Coenye 2004. <== *Ralstonia basilensis* (basonym). Synonym links through N4Lid: 10.1601/ex.1673. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-699. High-quality 16S rRNA sequence S000391359 (RDP), AF312022 (Genbank). N4Lid DOI: 10.1601/nm.8557

† *Ralstonia basilensis*<sup>VP</sup> Steinle et al. 1999. ==> *Wautersia basilensis* (new combination). Synonym links through N4Lid: 10.1601/ex.1673. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-699. High-quality 16S rRNA sequence S000391359 (RDP), AF312022 (Genbank). N4Lid DOI: 10.1601/nm.1673

† *Wautersia basilensis*<sup>VP</sup> (Steinle et al. 1999) Vanechoutte et al. 2004. <== *Ralstonia basilensis* (basonym). *Cupriavidus basilensis* (new combination). Synonym links through N4Lid: 10.1601/ex.1673. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-699. High-quality 16S rRNA sequence S000391359 (RDP), AF312022 (Genbank). N4Lid DOI: 10.1601/nm.1691

*Cupriavidus campinensis*<sup>VP</sup> (Goris et al. 2001) Vandamme and Coenye 2004. <== *Ralstonia campinensis* (basonym). Synonym links through N4Lid: 10.1601/ex.1674. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-700. High-quality 16S rRNA sequence S000391357 (RDP), AF312020 (Genbank). N4Lid DOI: 10.1601/nm.8558

† *Ralstonia campinensis*<sup>VP</sup> Goris et al. 2001. ==> *Wautersia campinensis* (new combination). Synonym links through N4Lid: 10.1601/ex.1674. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-700. High-quality 16S rRNA sequence S000391357 (RDP), AF312020 (Genbank). N4Lid DOI: 10.1601/nm.1674

† *Wautersia campinensis*<sup>VP</sup> (Goris et al. 2001) Vanechoutte et al. 2004. <== *Ralstonia campinensis* (basonym). *Cupriavidus campinensis* (new combination). Synonym links through N4Lid: 10.1601/ex.1674. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-700. High-quality 16S rRNA sequence S000391357 (RDP), AF312020 (Genbank). N4Lid DOI: 10.1601/nm.1692

*Cupriavidus gilardii*<sup>VP</sup> (Coenye et al. 1999) Vandamme and Coenye 2004. <== *Ralstonia gilardii* (basonym). Synonym links through N4Lid: 10.1601/ex.1676. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700815. High-quality 16S rRNA sequence S000428489 (RDP), AF076645 (Genbank). N4Lid DOI: 10.1601/nm.8559

† *Ralstonia gilardii*<sup>VP</sup> Coenye et al. 1999. ==> *Wautersia gilardii* (new combination). Synonym links through N4Lid: 10.1601/ex.1676. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700815. High-quality 16S rRNA sequence S000428489 (RDP), AF076645 (Genbank). N4Lid DOI: 10.1601/nm.1676

- † *Wautersia gilardii*<sup>VP</sup> (Coenye et al. 1999) Vaneechoutte et al. 2004. <== *Ralstonia gilardii* (basonym). *Cupriavidus gilardii* (new combination). Synonym links through N4Lid: 10.1601/ex.1676. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700815. High-quality 16S rRNA sequence S000428489 (RDP), AF076645 (Genbank). N4Lid DOI: 10.1601/nm.1693
- Cupriavidus laharis*<sup>VP</sup> Sato et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108726. High-quality 16S rRNA sequence S000383706 (RDP), AB054961 (Genbank). N4Lid DOI: 10.1601/nm.10043
- Cupriavidus metallidurans*<sup>VP</sup> (Goris et al. 2001) Vandamme and Coenye 2004. <== *Ralstonia metallidurans* (basonym). Synonym links through N4Lid: 10.1601/ex.1679. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43123. High-quality 16S rRNA sequence S000003158 (RDP), Y10824 (Genbank). GOLD ID: Gc00374. GCAT ID: 000236\_GCAT. Entrez genome id: 250. Sequenced strain: CH34 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.8560
- † *Ralstonia metallidurans*<sup>VP</sup> Goris et al. 2001. ==> *Wautersia metallidurans* (new combination). Synonym links through N4Lid: 10.1601/ex.1679. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43123. High-quality 16S rRNA sequence S000003158 (RDP), Y10824 (Genbank). GOLD ID: Gc00374. GCAT ID: 000236\_GCAT. Entrez genome id: 250. Sequenced strain: CH34 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 0 (NCBI). N4Lid DOI: 10.1601/nm.1679
- † *Wautersia metallidurans*<sup>VP</sup> (Goris et al. 2001) Vaneechoutte et al. 2004. <== *Ralstonia metallidurans* (basonym). *Cupriavidus metallidurans* (new combination). Synonym links through N4Lid: 10.1601/ex.1679. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43123. High-quality 16S rRNA sequence S000003158 (RDP), Y10824 (Genbank). GOLD ID: Gc00374. GCAT ID: 000236\_GCAT. Entrez genome id: 250. Sequenced strain: CH34 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 0 (NCBI). N4Lid DOI: 10.1601/nm.1694
- Cupriavidus oxalaticus*<sup>VP</sup> (Sahin et al. 2000) Vandamme and Coenye 2004. <== *Ralstonia oxalatica* (basonym). Synonym links through N4Lid: 10.1601/ex.1680. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11883. N4Lid DOI: 10.1601/nm.8561
- † *Ralstonia oxalatica*<sup>VP</sup> (ex Khambata and Bhat 1953) Sahin et al. 2000. ==> *Wautersia oxalatica* (new combination). Synonym links through N4Lid: 10.1601/ex.1680. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11883. N4Lid DOI: 10.1601/nm.1680
- † *Wautersia oxalatica*<sup>VP</sup> (Sahin et al. 2000) Vaneechoutte et al. 2004. <== *Ralstonia oxalatica* (basonym). *Cupriavidus oxalaticus* (new combination). Synonym links through N4Lid: 10.1601/ex.1680. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11883. High-quality 16S rRNA sequence S000388272 (RDP), AF155567 (Genbank). N4Lid DOI: 10.1601/nm.1695
- Cupriavidus pauculus*<sup>VP</sup> (Vandamme et al. 1999) Vandamme and Coenye 2004. <== *Ralstonia paucula* (basonym). Synonym links through N4Lid: 10.1601/ex.1681. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700817. High-quality 16S rRNA sequence S000428669 (RDP), AF085226 (Genbank). N4Lid DOI: 10.1601/nm.8562
- † *Ralstonia paucula*<sup>VP</sup> Vandamme et al. 1999. ==> *Wautersia paucula* (new combination). Synonym links through N4Lid: 10.1601/ex.1681. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700817. High-quality 16S rRNA sequence S000428669 (RDP), AF085226 (Genbank). N4Lid DOI: 10.1601/nm.1681
- † *Wautersia paucula*<sup>VP</sup> (Vandamme et al. 1999) Vaneechoutte et al. 2004. <== *Ralstonia paucula* (basonym). *Cupriavidus pauculus* (new combination). Synonym links through N4Lid: 10.1601/ex.1681. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700817. High-quality 16S rRNA sequence S000428669 (RDP), AF085226 (Genbank). N4Lid DOI: 10.1601/nm.1696

- Cupriavidus pinatubonensis*<sup>VP</sup> Sato et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108725. High-quality 16S rRNA sequence S000386216 (RDP), AB121221 (Genbank). N4Lid DOI: 10.1601/nm.10042
- Cupriavidus respiraculi*<sup>VP</sup> (Coenye et al. 2003) Vandamme and Coenye 2004. <== *Ralstonia respiraculi* (basonym). Synonym links through N4Lid: 10.1601/ex.1682. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 46809. High-quality 16S rRNA sequence S000395486 (RDP), AF500583 (Genbank). N4Lid DOI: 10.1601/nm.8563
- † *Ralstonia respiraculi*<sup>VP</sup> Coenye et al. 2003. ==> *Wautersia respiraculi* (new combination). Synonym links through N4Lid: 10.1601/ex.1682. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 46809. High-quality 16S rRNA sequence S000395486 (RDP), AF500583 (Genbank). N4Lid DOI: 10.1601/nm.1682
- † *Wautersia respiraculi*<sup>VP</sup> (Coenye et al. 2003) Vanechoutte et al. 2004. <== *Ralstonia respiraculi* (basonym). *Cupriavidus respiraculi* (new combination). Synonym links through N4Lid: 10.1601/ex.1682. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 46809. High-quality 16S rRNA sequence S000395486 (RDP), AF500583 (Genbank). N4Lid DOI: 10.1601/nm.1697
- Cupriavidus taiwanensis*<sup>VP</sup> (Chen et al. 2001) Vandamme and Coenye 2004. <== *Ralstonia taiwanensis* (basonym). Synonym links through N4Lid: 10.1601/ex.1685. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 44338. High-quality 16S rRNA sequence S000390945 (RDP), AF300324 (Genbank). GOLD ID: Gi00956. GCAT ID: 001400\_GCAT. Entrez genome id: 15733. Sequenced strain: LMG 19424 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.8564
- † *Ralstonia taiwanensis*<sup>VP</sup> Chen et al. 2001. ==> *Wautersia taiwanensis* (new combination). Synonym links through N4Lid: 10.1601/ex.1685. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 44338. High-quality 16S rRNA sequence S000390945 (RDP), AF300324 (Genbank). GOLD ID: Gi00956. GCAT ID: 001400\_GCAT. Entrez genome id: 15733. Sequenced strain: LMG 19424 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.1685
- † *Wautersia taiwanensis*<sup>VP</sup> (Chen et al. 2001) Vanechoutte et al. 2004. <== *Ralstonia taiwanensis* (basonym). *Cupriavidus taiwanensis* (new combination). Synonym links through N4Lid: 10.1601/ex.1685. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 44338. High-quality 16S rRNA sequence S000390945 (RDP), AF300324 (Genbank). GOLD ID: Gi00956. GCAT ID: 001400\_GCAT. Entrez genome id: 15733. Sequenced strain: LMG 19424 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.1698
- Genus** † *Wautersia*<sup>VP</sup> Vanechoutte et al. 2004. ≈ *Cupriavidus* (earlier heterotypic synonym), links through 10.1601/nm.1655. N4Lid DOI: 10.1601/nm.1689
- Wautersia numazuensis*<sup>VP</sup> corrig. Kageyama et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15562. High-quality 16S rRNA sequence S000469505 (RDP), AB104447 (Genbank). N4Lid 10.1601/nm.9481
- Genus** *Lautropia*<sup>VP</sup> Gerner-Smidt et al. 1995. N4Lid DOI: 10.1601/nm.1657
- Lautropia mirabilis*<sup>VP</sup> Gerner-Smidt et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51599. N4Lid DOI: 10.1601/nm.1658
- Genus** *Limnobacter*<sup>VP</sup> Spring et al. 2001. GOLD ID: Gi01418. GCAT ID: 000882\_GCAT. Sequenced strain: MED105 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.1659
- Limnobacter thiooxidans*<sup>VP</sup> Spring et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-620. High-quality 16S rRNA sequence S000018694 (RDP), AJ289885 (Genbank). N4Lid DOI: 10.1601/nm.1660
- Genus** *Pandoraea*<sup>VP</sup> Coenye et al. 2000. N4Lid DOI: 10.1601/nm.1661
- Pandoraea apista*<sup>VP</sup> Coenye et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-61. High-quality 16S rRNA sequence S000387938 (RDP), AF139173 (Genbank). N4Lid DOI: 10.1601/nm.1662



*Pandoraea norimbergensis*<sup>VP</sup> (Wittke et al. 1998) Coenye et al. 2000. <== *Burkholderia norimbergensis* (basonym). Synonym links through N4Lid: 10.1601/ex.1638. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-65. High-quality 16S rRNA sequence S000017481 (RDP), Y09879 (Genbank). N4Lid DOI: 10.1601/nm.1663

† *Burkholderia norimbergensis*<sup>VP</sup> Wittke et al. 1998. ==> *Pandoraea norimbergensis* (new combination). Synonym links through N4Lid: 10.1601/ex.1638. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-65. High-quality 16S rRNA sequence S000017481 (RDP), Y09879 (Genbank). N4Lid DOI: 10.1601/nm.1638

*Pandoraea pnomenusa*<sup>VP</sup> Coenye et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-63. High-quality 16S rRNA sequence S000387939 (RDP), AF139174 (Genbank). N4Lid DOI: 10.1601/nm.1664

*Pandoraea pulmonicola*<sup>VP</sup> Coenye et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-62. High-quality 16S rRNA sequence S000387940 (RDP), AF139175 (Genbank). N4Lid DOI: 10.1601/nm.1665

*Pandoraea sputorum*<sup>VP</sup> Coenye et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-64. High-quality 16S rRNA sequence S000387941 (RDP), AF139176 (Genbank). N4Lid DOI: 10.1601/nm.1666

**Genus *Paucimonas***<sup>VP</sup> Jendrossek 2001. N4Lid DOI: 10.1601/nm.1667

*Paucimonas lemoignei*<sup>VP</sup> (Delafield et al. 1965) Jendrossek 2001. <== *Pseudomonas lemoignei* (basonym). Synonym links through N4Lid: 10.1601/ex.2630. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17989. High-quality 16S rRNA sequence S000381354 (RDP), X92555 (Genbank). N4Lid DOI: 10.1601/nm.1668

† *Pseudomonas lemoignei*<sup>AL</sup> Delafield et al. 1965. ==> *Paucimonas lemoignei* (new combination). Synonym links through N4Lid: 10.1601/ex.2630. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17989. High-quality 16S rRNA sequence S000381354 (RDP), X92555 (Genbank). N4Lid DOI: 10.1601/nm.2630

**Genus *Polynucleobacter***<sup>VP</sup> Heckmann and Schmidt 1987. GOLD ID: Gi01032. GCAT ID: 001415\_GCAT. Entrez genome id: 16679. Sequenced strain: QLW-P1DMWA-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.1669

*Polynucleobacter necessarius*<sup>VP</sup> Heckmann and Schmidt 1987. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 30859. High-quality 16S rRNA sequence S000245913 (RDP), X93019 (Genbank). GOLD ID: Gi01031. GCAT ID: 001414\_GCAT. Sequenced strain: STIR1 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.1670

**Genus *Ralstonia***<sup>VP</sup> Yabuuchi et al. 1996. N4Lid DOI: 10.1601/nm.1671

*Ralstonia pickettii*<sup>VP</sup> (Ralston et al. 1973) Yabuuchi et al. 1996. <== *Pseudomonas pickettii* (basonym). Synonym links through N4Lid: 10.1601/ex.2663. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27511. GOLD ID: Gi01351. GCAT ID: 001768\_GCAT. Entrez genome id: 17631. Sequenced strain: #1 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.1672

† *Burkholderia pickettii*<sup>VP</sup> (Ralston et al. 1973) Yabuuchi et al. 1993. <== *Pseudomonas pickettii* (basonym). *Ralstonia pickettii* (new combination). Synonym links through N4Lid: 10.1601/ex.2663. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27511. GOLD ID: Gi01351. GCAT ID: 001768\_GCAT. Entrez genome id: 17631. Sequenced strain: #1 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.1641

† *Pseudomonas pickettii*<sup>AL</sup> Ralston et al. 1973. ==> *Burkholderia pickettii* (new combination). Synonym links through N4Lid: 10.1601/ex.2663. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27511. GOLD ID: Gi01351. GCAT ID: 001768\_GCAT. Entrez genome id: 17631. Sequenced strain: #1 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.2663

*Ralstonia insidiosa*<sup>VP</sup> Coenye et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 46789. High-quality 16S rRNA sequence S000429663 (RDP), AF488779 (Genbank). N4Lid DOI: 10.1601/nm.1677

*Ralstonia mannitolilytica*<sup>VP</sup> corrig. De Baere et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-716. High-quality 16S rRNA sequence S000129405 (RDP), AJ270258 (Genbank). N4Lid DOI: 10.1601/nm.1678

*Ralstonia solanacearum*<sup>VP</sup> (Smith 1896) Yabuuchi et al. 1996. <== *Pseudomonas solanacearum* (basonym). Synonym links through N4Lid: 10.1601/ex.2686. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11696. High-quality 16S rRNA sequence S000000634 (RDP), X67036 (Genbank). GOLD ID: Gc00077. GCAT ID: 000533\_GCAT. Entrez genome id: 13. Sequenced strain: GMI1000 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.1683

† *Burkholderia solanacearum*<sup>VP</sup> (Smith 1896) Yabuuchi et al. 1993. <== *Pseudomonas solanacearum* (basonym). *Ralstonia solanacearum* (new combination). Synonym links through N4Lid: 10.1601/ex.2686. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11696. High-quality 16S rRNA sequence S000000634 (RDP), X67036 (Genbank). GOLD ID: Gc00077. GCAT ID: 000533\_GCAT. Entrez genome id: 13. Sequenced strain: GMI1000 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.1646

† *Pseudomonas solanacearum*<sup>AL</sup> (Smith 1896) Smith 1914. ==> *Burkholderia solanacearum* (new combination). Synonym links through N4Lid: 10.1601/ex.2686. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11696. High-quality 16S rRNA sequence S000000634 (RDP), X67036 (Genbank). GOLD ID: Gc00077. GCAT ID: 000533\_GCAT. Entrez genome id: 13. Sequenced strain: GMI1000 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.2686

*Ralstonia syzygii*<sup>VP</sup> (Roberts et al. 1990) Vaneechoutte et al. 2004. <== *Pseudomonas syzygii* (basonym). Synonym links through N4Lid: 10.1601/ex.2694. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49543. High-quality 16S rRNA sequence S000437436 (RDP), U28237 (Genbank). N4Lid DOI: 10.1601/nm.1684

† *Pseudomonas syzygii*<sup>VP</sup> Roberts et al. 1990. ==> *Ralstonia syzygii* (new combination). Synonym links through N4Lid: 10.1601/ex.2694. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49543. High-quality 16S rRNA sequence S000437436 (RDP), U28237 (Genbank). N4Lid DOI: 10.1601/nm.2694

**Genus *Thermothrix***<sup>VP</sup> Caldwell et al. 1981. N4Lid DOI: 10.1601/nm.1686

*Thermothrix thiopara*<sup>VP</sup> Caldwell et al. 1981. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29244. N4Lid DOI: 10.1601/nm.1687

*Thermothrix azorensis*<sup>VP</sup> Odintsova et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51754. N4Lid DOI: 10.1601/nm.1688

**Family *Oxalobacteraceae***<sup>VP</sup> Garrity et al 2006. N4Lid DOI: 10.1601/nm.1699

**Genus *Oxalobacter***<sup>VP</sup> Allison et al. 1985. N4Lid DOI: 10.1601/nm.1700

*Oxalobacter formigenes*<sup>VP</sup> Allison et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35274. High-quality 16S rRNA sequence S000437750 (RDP), U49757 (Genbank). N4Lid DOI: 10.1601/nm.1701

*Oxalobacter vibrioformis*<sup>VP</sup> Dehning and Schink 1990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49685. N4Lid DOI: 10.1601/nm.1702

**Genus *Collimonas***<sup>VP</sup> De Boer et al. 2004. N4Lid DOI: 10.1601/nm.8548

*Collimonas fungivorans*<sup>VP</sup> De Boer et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 21973. High-quality 16S rRNA sequence S000351461 (RDP), AJ310394 (Genbank). GOLD ID: Gi01069. GCAT ID: 000974\_GCAT. Entrez genome id: 16085. Genome sequencing 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.8549

**Genus *Duganella***<sup>VP</sup> Hiraishi et al. 1997. N4Lid DOI: 10.1601/nm.1703

*Duganella zoogloeoides*<sup>VP</sup> Hiraishi et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25935. High-quality 16S rRNA sequence S000022017 (RDP), D14256 (Genbank). N4Lid DOI: 10.1601/nm.1704

*Duganella violaceinigra*<sup>VP</sup> Li et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108077. High-quality 16S rRNA sequence S000461649 (RDP), AY376163 (Genbank). N4Lid DOI: 10.1601/nm.8574

**Genus *Herbaspirillum***<sup>VP</sup> Baldani et al. 1986. N4Lid DOI: 10.1601/nm.1705

*Herbaspirillum seropedicae*<sup>VP</sup> Baldani et al. 1986. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35892. High-quality 16S rRNA sequence S000014269 (RDP), Y10146 (Genbank). GOLD ID: Gi01013. GCAT ID: 001140\_GCAT. Entrez genome id: 15704. Sequenced strain: Z67 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.1706

*Herbaspirillum autotrophicum*<sup>VP</sup> (Aragno and Schlegel 1978) Ding and Yokota 2004. <== *Aquaspirillum autotrophicum* (basonym). Synonym links through N4Lid: 10.1601/ex.1942. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29984. N4Lid 10.1601/nm.8613

† *Aquaspirillum autotrophicum*<sup>AL</sup> Aragno and Schlegel 1978. ==> *Herbaspirillum autotrophicum* (new combination). Synonym links through N4Lid: 10.1601/ex.1942. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29984. N4Lid DOI: 10.1601/nm.1942

*Herbaspirillum chlorophenicum*<sup>VP</sup> Im et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: IAM 15024. High-quality 16S rRNA sequence S000334724 (RDP), AB094401 (Genbank). N4Lid 10.1601/nm.8614

*Herbaspirillum frisingense*<sup>VP</sup> Kirchhof et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13128. High-quality 16S rRNA sequence S000003243 (RDP), AJ238358 (Genbank). N4Lid DOI: 10.1601/nm.1707

*Herbaspirillum hiltneri*<sup>VP</sup> Rothballer et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17495. High-quality 16S rRNA sequence S000588265 (RDP), DQ150563 (Genbank). N4Lid DOI: 10.1601/nm.10109

*Herbaspirillum huttiense*<sup>VP</sup> (Leifson 1962) Ding and Yokota 2004. <== *Pseudomonas huttiensis* (basonym). Synonym links through N4Lid: 10.1601/ex.2621. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14670. High-quality 16S rRNA sequence S000006848 (RDP), AB021366 (Genbank). N4Lid 10.1601/nm.8615

† *Pseudomonas huttiensis*<sup>AL</sup> Leifson 1962. ==> *Herbaspirillum huttiense* (new combination). Synonym links through N4Lid: 10.1601/ex.2621. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14670. High-quality 16S rRNA sequence S000006848 (RDP), AB021366 (Genbank). N4Lid DOI: 10.1601/nm.2621

*Herbaspirillum lusitanum*<sup>VP</sup> Valverde et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 21710. High-quality 16S rRNA sequence S000432334 (RDP), AF543312 (Genbank). N4Lid DOI: 10.1601/nm.1708

*Herbaspirillum putei*<sup>VP</sup> Ding and Yokota 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-806. High-quality 16S rRNA sequence S000439511 (RDP), AB109890 (Genbank). N4Lid 10.1601/nm.8616

*Herbaspirillum rubrisubalbicans*<sup>VP</sup> (Christopher and Edgerton 1930) Baldani et al. 1996. <== *Pseudomonas rubrisubalbicans* (basonym). Synonym links through N4Lid: 10.1601/ex.2682. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19308. High-quality 16S rRNA sequence S000002236 (RDP), AB021424 (Genbank). N4Lid DOI: 10.1601/nm.1709

† *Pseudomonas rubrisubalbicans*<sup>AL</sup> (Christopher and Edgerton 1930) Krasil'nikov 1949. ==> *Herbaspirillum rubrisubalbicans* (new combination). Synonym links through N4Lid: 10.1601/ex.2682. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19308. High-quality 16S rRNA sequence S000002236 (RDP), AB021424 (Genbank). N4Lid DOI: 10.1601/nm.2682

**Genus *Hermينيmonas***<sup>VP</sup> Fernandes et al. 2005. GOLD ID: Gi01518. GCAT ID: 001141\_GCAT. Entrez genome id: 13467. Genome sequence is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid 10.1601/nm.9686

*Herminiimonas aquatilis*<sup>VP</sup> Kämpfer et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 36956. High-quality 16S rRNA sequence S000592630 (RDP), AM085762 (Genbank). N4Lid DOI: 10.1601/nm.10194

*Herminiimonas arsenicoxydans*<sup>VP</sup> Muller et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17148. High-quality 16S rRNA sequence S000592630 (RDP), AM085762 (Genbank). N4Lid DOI: 10.1601/nm.10233

*Herminiimonas fonticola*<sup>VP</sup> Fernandes et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108398. High-quality 16S rRNA sequence S000574631 (RDP), AY676462 (Genbank). N4Lid 10.1601/nm.9685

**Genus *Janthinobacterium***<sup>AL</sup> De Ley et al. 1978. GOLD ID: Gi01533. GCAT ID: 001144\_GCAT. Entrez genome id: 16549. Sequenced strain: Marseille 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.1710

*Janthinobacterium lividum*<sup>AL</sup> (Eisenberg 1891) De Ley et al. 1978. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 12473. High-quality 16S rRNA sequence S000006620 (RDP), Y08846 (Genbank). N4Lid DOI: 10.1601/nm.1711

*Janthinobacterium agaricidamnorum*<sup>VP</sup> Lincoln et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 9628. High-quality 16S rRNA sequence S000008887 (RDP), Y08845 (Genbank). N4Lid DOI: 10.1601/nm.1712

**Genus *Massilia***<sup>VP</sup> La Scola et al. 2000. N4Lid DOI: 10.1601/nm.1713

*Massilia timonae*<sup>VP</sup> La Scola et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 105350. High-quality 16S rRNA sequence S000437784 (RDP), U54470 (Genbank). N4Lid DOI: 10.1601/nm.1714

*Massilia albidiflava*<sup>VP</sup> Zhang et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: KCTC 12343. High-quality 16S rRNA sequence S000515996 (RDP), AY965998 (Genbank). N4Lid 10.1601/nm.9903

*Massilia dura*<sup>VP</sup> Zhang et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: KCTC 12342. High-quality 16S rRNA sequence S000515997 (RDP), AY965999 (Genbank). N4Lid 10.1601/nm.9902

*Massilia lutea*<sup>VP</sup> Zhang et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: KCTC 12345. High-quality 16S rRNA sequence S000515998 (RDP), AY966000 (Genbank). N4Lid 10.1601/nm.9905

*Massilia plicata*<sup>VP</sup> Zhang et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: KCTC 12344. High-quality 16S rRNA sequence S000515999 (RDP), AY966001 (Genbank). N4Lid 10.1601/nm.9904

**Genus *Naxibacter***<sup>VP</sup> Xu et al. 2005. N4Lid 10.1601/nm.9435

*Naxibacter alkalitolerans*<sup>VP</sup> Xu et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: KCTC 12194. High-quality 16S rRNA sequence S000541014 (RDP), AY679161 (Genbank). N4Lid 10.1601/nm.9434

**Genus *Oxalicibacterium***<sup>VP</sup> Tamer et al. 2003. N4Lid DOI: 10.1601/nm.1715

*Oxalicibacterium flavum*<sup>VP</sup> Tamer et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 107889. N4Lid DOI: 10.1601/nm.1716

**Genus *Telluria***<sup>VP</sup> Bowman et al. 1993. N4Lid DOI: 10.1601/nm.1717

*Telluria mixta*<sup>VP</sup> (Bowman et al. 1989) Bowman et al. 1993. <== *Pseudomonas mixta* (basonym). Synonym links through N4Lid: 10.1601/ex.2646. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49108. High-quality 16S rRNA sequence S000007395 (RDP), X65589 (Genbank). N4Lid DOI: 10.1601/nm.1718

† *Pseudomonas mixta*<sup>VP</sup> Bowman et al. 1989. ==> *Telluria mixta* (new combination). Synonym links through N4Lid: 10.1601/ex.2646. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49108. High-quality 16S rRNA sequence S000007395 (RDP), X65589 (Genbank). N4Lid DOI: 10.1601/nm.2646

*Telluria chitinolytica*<sup>VP</sup> Bowman et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 104069. N4Lid DOI: 10.1601/nm.1719

**Family *Alcaligenaceae***<sup>VP</sup> De Ley et al 1986. N4Lid DOI: 10.1601/nm.1720



**Genus *Alcaligenes***<sup>AL</sup> Castellani and Chalmers 1919. N4Lid DOI: 10.1601/nm.1721

*Alcaligenes faecalis subsp. faecalis*<sup>VP</sup> Castellani and Chalmers 1919. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 8750. High-quality 16S rRNA sequence S000436062 (RDP), M22508 (Genbank). N4Lid DOI: 10.1601/nm.1722

*Alcaligenes faecalis subsp. parafaecalis*<sup>VP</sup> Schroll et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13975. High-quality 16S rRNA sequence S000130225 (RDP), AJ242986 (Genbank). N4Lid DOI: 10.1601/nm.1730

*Alcaligenes aquatilis*<sup>VP</sup> Van Trappen et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 50924. High-quality 16S rRNA sequence S000539940 (RDP), AJ937889 (Genbank). N4Lid 10.1601/nm.9745

*Alcaligenes faecalis subsp. phenolicus*<sup>VP</sup> Rehfuss and Urban 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NRRL B-41076. N4Lid 10.1601/nm.9809

*Alcaligenes xylooxidans subsp. xylooxidans*<sup>VP</sup> (Yabuuchi and Yano 1981) Kiredjian et al. 1986. <== *Achromobacter xylooxidans subsp. xylooxidans* (basonym). Synonym links through N4Lid: 10.1601/ex.1737. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27061. High-quality 16S rRNA sequence S000436063 (RDP), M22509 (Genbank). N4Lid DOI: 10.1601/nm.1737

† *Achromobacter xylooxidans subsp. xylooxidans*<sup>VP</sup> (ex Yabuuchi and Ohyama 1971) Yabuuchi and Yano 1981. ==> *Alcaligenes xylooxidans subsp. xylooxidans* (new combination). Synonym links through N4Lid: 10.1601/ex.1737. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15173. High-quality 16S rRNA sequence S000436063 (RDP), M22509 (Genbank). N4Lid DOI: 10.1601/nm.1739

**Genus *Achromobacter***<sup>VP</sup> Yabuuchi and Yano 1981. N4Lid DOI: 10.1601/nm.1738

*Achromobacter denitrificans subsp. denitrificans*<sup>VP</sup> (Rüger and Tan 1983) Coenye et al. 2003. <== *Alcaligenes denitrificans* (basonym). Synonym links through N4Lid: 10.1601/ex.1727. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15173. High-quality 16S rRNA sequence S000654201 (RDP), Y14907 (Genbank). N4Lid DOI: 10.1601/nm.1741

*Achromobacter xylooxidans subsp. denitrificans*<sup>VP</sup> (Rüger and Tan 1983) Yabuuchi et al. 1998. <== *Alcaligenes denitrificans* (basonym). *Achromobacter denitrificans subsp. denitrificans* (new combination). Synonym links through N4Lid: 10.1601/ex.1727. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15173. High-quality 16S rRNA sequence S000654201 (RDP), Y14907 (Genbank). N4Lid DOI: 10.1601/nm.1740

† *Alcaligenes denitrificans*<sup>VP</sup> (ex Leifson and Hugh 1954) Rüger and Tan 1983. ==> *Achromobacter xylooxidans subsp. denitrificans* (new combination). Synonym links through N4Lid: 10.1601/ex.1727. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15173. High-quality 16S rRNA sequence S000654201 (RDP), Y14907 (Genbank). N4Lid DOI: 10.1601/nm.1727

*Achromobacter insolitus*<sup>VP</sup> Coenye et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 47057. High-quality 16S rRNA sequence S000399556 (RDP), AY170847 (Genbank). N4Lid DOI: 10.1601/nm.1742

*Achromobacter piechaudii*<sup>VP</sup> (Kiredjian et al. 1986) Yabuuchi et al. 1998. <== *Alcaligenes piechaudii* (basonym). Synonym links through N4Lid: 10.1601/ex.1734. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43552. High-quality 16S rRNA sequence S000427401 (RDP), AB010841 (Genbank). N4Lid DOI: 10.1601/nm.1743

† *Alcaligenes piechaudii*<sup>VP</sup> Kiredjian et al. 1986. ==> *Achromobacter piechaudii* (new combination). Synonym links through N4Lid: 10.1601/ex.1734. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43552. High-quality 16S rRNA sequence S000427401 (RDP), AB010841 (Genbank). N4Lid DOI: 10.1601/nm.1734

*Achromobacter ruhlandii*<sup>VP</sup> (Packer and Vishniac 1955) Yabuuchi et al. 1998. <== *Alcaligenes ruhlandii* (basonym). Synonym links through N4Lid: 10.1601/ex.1735. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15749. High-quality 16S rRNA sequence S000427400 (RDP), AB010840 (Genbank). N4Lid DOI: 10.1601/nm.1744

† *Alcaligenes ruhlandii*<sup>AL</sup> (Packer and Vishniac 1955) Aragno and Schlegel 1977. ==> *Achromobacter ruhlandii* (new combination). Synonym links through N4Lid: 10.1601/ex.1735.

Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15749. High-quality 16S rRNA sequence S000427400 (RDP), AB010840 (Genbank). N4Lid DOI: 10.1601/nm.1735

*Achromobacter spanius*<sup>VP</sup> Coenye et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 47062. High-quality 16S rRNA sequence S000399557 (RDP), AY170848 (Genbank). N4Lid DOI: 10.1601/nm.1745

**Genus *Advenella***<sup>VP</sup> Coenye et al. 2005. N4Lid DOI: 10.1601/nm.8436

*Advenella incenata*<sup>VP</sup> Coenye et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 45225. N4Lid DOI: 10.1601/nm.8437

**Genus *Bordetella***<sup>AL</sup> Moreno-López 1952. N4Lid DOI: 10.1601/nm.1746

*Bordetella pertussis*<sup>AL</sup> (Bergey et al. 1923) Moreno-López 1952. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 9797. High-quality 16S rRNA sequence S000437037 (RDP), U04950 (Genbank). GOLD ID: Gc00146. GCAT ID: 000464\_GCAT. Entrez genome id: 26. Sequenced strain: ATCC BAA-589, NCTC-13251 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.1747

*Bordetella avium*<sup>VP</sup> Kersters et al. 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35086. High-quality 16S rRNA sequence S000437034 (RDP), U04947 (Genbank). GOLD ID: Gc00404. GCAT ID: 000206\_GCAT. Entrez genome id: 27. Sequenced strain: 197N 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.1748

*Bordetella bronchiseptica*<sup>AL</sup> (Ferry 1912) Moreno-López 1952. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19395. High-quality 16S rRNA sequence S000437035 (RDP), U04948 (Genbank). GOLD ID: Gc00148. GCAT ID: 000462\_GCAT. Entrez genome id: 24. Sequenced strain: ATCC BAA-588, NCTC-13252 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.1749

*Bordetella hinzii*<sup>VP</sup> Vandamme et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51783. High-quality 16S rRNA sequence S000388693 (RDP), AF177667 (Genbank). N4Lid DOI: 10.1601/nm.1750

*Bordetella holmesii*<sup>VP</sup> Weyant et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51541. High-quality 16S rRNA sequence S000437033 (RDP), U04820 (Genbank). N4Lid DOI: 10.1601/nm.1751

*Bordetella parapertussis*<sup>AL</sup> (Eldering and Kendrick 1938) Moreno-López 1952. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15311. High-quality 16S rRNA sequence S000437036 (RDP), U04949 (Genbank). GOLD ID: Gc00147. GCAT ID: 000463\_GCAT. Entrez genome id: 25. Sequenced strain: ATCC BAA-587, NCTC-13253 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.1752

*Bordetella petrii*<sup>VP</sup> Von Wintzingerode et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-461. High-quality 16S rRNA sequence S000009593 (RDP), AJ249861 (Genbank). GOLD ID: Gi00083. GCAT ID: 000782\_GCAT. Entrez genome id: 13489. Sequenced strain: CCUG 43448 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.1753

*Bordetella trematum*<sup>VP</sup> Vandamme et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700309. High-quality 16S rRNA sequence S000015853 (RDP), AJ277798 (Genbank). N4Lid DOI: 10.1601/nm.1754

**Genus *Brackiella***<sup>VP</sup> Willems et al. 2002. N4Lid DOI: 10.1601/nm.1755

*Brackiella oedipodis*<sup>VP</sup> Willems et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13743. High-quality 16S rRNA sequence S000022480 (RDP), AJ277742 (Genbank). N4Lid DOI: 10.1601/nm.1756

**Genus *Castellaniella***<sup>VP</sup> Kämpfer et al. 2006. N4Lid 10.1601/nm.9991

*Castellaniella defragrans*<sup>VP</sup> (Foss et al. 1998) Kämpfer et al. 2006. <== *Alcaligenes defragrans* (**basonym**). Synonym links through N4Lid: 10.1601/ex.1726. Source of type material

recommended for DOE sponsored genome sequencing by the JGI: DSM 12141. High-quality 16S rRNA sequence S000007648 (RDP), AJ005447 (Genbank). N4Lid 10.1601/nm.9799

† *Alcaligenes defragrans*<sup>VP</sup> Foss et al. 1998. ==> *Castellaniella defragrans* (new combination).  
Synonym links through N4Lid: 10.1601/ex.1726. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 12141. High-quality 16S rRNA sequence S000007648 (RDP), AJ005447 (Genbank). N4Lid DOI: 10.1601/nm.1726

*Castellaniella denitrificans*<sup>VP</sup> Kämpfer et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 11046. High-quality 16S rRNA sequence S000438516 (RDP), U82826 (Genbank). N4Lid 10.1601/nm.9990

**Genus *Derxia***<sup>AL</sup> Jensen et al. 1960. N4Lid DOI: 10.1601/nm.1757

*Derxia gummosa*<sup>AL</sup> Jensen et al. 1960. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15994. N4Lid DOI: 10.1601/nm.1758

**Genus *Kerstersia***<sup>VP</sup> Coenye et al. 2003. N4Lid DOI: 10.1601/nm.1759

*Kerstersia gyiorum*<sup>VP</sup> Coenye et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 47000. High-quality 16S rRNA sequence S000396741 (RDP), AY131213 (Genbank). N4Lid DOI: 10.1601/nm.1760

**Genus *Oligella***<sup>VP</sup> Rossau et al. 1987. N4Lid DOI: 10.1601/nm.1761

*Oligella urethralis*<sup>VP</sup> (Lautrop et al. 1970) Rossau et al. 1987. <== *Moraxella urethralis* (basonym).  
Synonym links through N4Lid: 10.1601/ex.2764. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17960. High-quality 16S rRNA sequence S000389521 (RDP), AF227163 (Genbank). N4Lid DOI: 10.1601/nm.1762

† *Moraxella urethralis*<sup>AL</sup> Lautrop et al. 1970. ==> *Oligella urethralis* (new combination).  
Synonym links through N4Lid: 10.1601/ex.2764. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17960. High-quality 16S rRNA sequence S000389521 (RDP), AF227163 (Genbank). N4Lid DOI: 10.1601/nm.2764

*Oligella ureolytica*<sup>VP</sup> Rossau et al. 1987. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43534. N4Lid DOI: 10.1601/nm.1763

**Genus *Pelistega***<sup>VP</sup> Vandamme et al. 1998. N4Lid DOI: 10.1601/nm.1764

*Pelistega europaea*<sup>VP</sup> Vandamme et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700725. High-quality 16S rRNA sequence S000007045 (RDP), Y11890 (Genbank). N4Lid DOI: 10.1601/nm.1765

**Genus *Pigmentiphaga***<sup>VP</sup> Blümel et al. 2001. N4Lid DOI: 10.1601/nm.1766

*Pigmentiphaga kullae*<sup>VP</sup> Blümel et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-795. High-quality 16S rRNA sequence S000390573 (RDP), AF282916 (Genbank). N4Lid DOI: 10.1601/nm.1767

**Genus *Pusillimonas***<sup>VP</sup> Stolz et al. 2005. N4Lid 10.1601/nm.9430

*Pusillimonas noertemannii*<sup>VP</sup> Stolz et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 10065. High-quality 16S rRNA sequence S000541021 (RDP), AY695828 (Genbank). N4Lid 10.1601/nm.9429

**Genus *Sutterella***<sup>VP</sup> Wexler et al. 1996. N4Lid DOI: 10.1601/nm.1768

*Sutterella wadsworthensis*<sup>VP</sup> Wexler et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51579. N4Lid DOI: 10.1601/nm.1769

*Sutterella stercoricanis*<sup>VP</sup> Greetham et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 47620. High-quality 16S rRNA sequence S000543947 (RDP), AJ566849 (Genbank). N4Lid 10.1601/nm.8948

**Genus *Taylorella***<sup>VP</sup> Sugimoto et al. 1984. N4Lid DOI: 10.1601/nm.1770

*Taylorella equigenitalis*<sup>VP</sup> (Taylor et al. 1983) Sugimoto et al. 1984. <== *Haemophilus equigenitalis* (basonym).  
Synonym links through N4Lid: 10.1601/ex.3425. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35865. High-quality 16S rRNA sequence S000012031 (RDP), X68645 (Genbank). N4Lid DOI: 10.1601/nm.1771

† *Haemophilus equigenitalis*<sup>VP</sup> Taylor et al. 1983. ==> *Taylorella equigenitalis* (new combination).  
Synonym links through N4Lid: 10.1601/ex.3425. Source of type material

recommended for DOE sponsored genome sequencing by the JGI: ATCC 35865. High-quality 16S rRNA sequence S000012031 (RDP), X68645 (Genbank). N4Lid DOI: 10.1601/nm.3425

*Taylorella asinigenitalis*<sup>VP</sup> Jang et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700933. High-quality 16S rRNA sequence S000428367 (RDP), AF067729 (Genbank). N4Lid DOI: 10.1601/nm.1772

**Genus *Tetrathibacter***<sup>VP</sup> Ghosh et al. 2005. N4Lid 10.1601/nm.9612

*Tetrathibacter kashmirensis*<sup>VP</sup> Ghosh et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22695. High-quality 16S rRNA sequence S000447841 (RDP), AJ864470 (Genbank). N4Lid 10.1601/nm.9611

*Tetrathibacter mimigardefordensis*<sup>VP</sup> Wübbeler et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17166. High-quality 16S rRNA sequence S000481204 (RDP), AY880023 (Genbank). N4Lid DOI: 10.1601/nm.10108

**Family *Comamonadaceae***<sup>VP</sup> Willems et al 1991. N4Lid DOI: 10.1601/nm.1773

**Genus *Comamonas***<sup>VP</sup> (ex Davis and Park 1962) De Vos et al. 1985. N4Lid DOI: 10.1601/nm.1774

*Comamonas terrigena*<sup>VP</sup> (ex Hugh 1962) De Vos et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11330. High-quality 16S rRNA sequence S000428528 (RDP), AF078772 (Genbank). N4Lid DOI: 10.1601/nm.1775

*Comamonas aquatica*<sup>VP</sup> (Hylemon et al. 1973) Wauters et al. 2003. <== *Aquaspirillum aquaticum* (basonym). Synonym links through N4Lid: 10.1601/ex.1940. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11330. High-quality 16S rRNA sequence S000134317 (RDP), AJ430344 (Genbank). N4Lid DOI: 10.1601/nm.1777

† *Aquaspirillum aquaticum*<sup>AL</sup> Hylemon et al. 1973. ==> *Comamonas aquatica* (new combination). Synonym links through N4Lid: 10.1601/ex.1940. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11330. High-quality 16S rRNA sequence S000134317 (RDP), AJ430344 (Genbank). N4Lid DOI: 10.1601/nm.1940

*Comamonas badia*<sup>VP</sup> Tago and Yokota 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: KCTC 12244. High-quality 16S rRNA sequence S000469634 (RDP), AB164432 (Genbank). N4Lid 10.1601/nm.9392

*Comamonas denitrificans*<sup>VP</sup> Gumaelius et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700936. High-quality 16S rRNA sequence S000389731 (RDP), AF233877 (Genbank). N4Lid DOI: 10.1601/nm.1778

*Comamonas kerstersii*<sup>VP</sup> Wauters et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 15333. High-quality 16S rRNA sequence S000134051 (RDP), AJ430347 (Genbank). N4Lid DOI: 10.1601/nm.1779

*Comamonas koreensis*<sup>VP</sup> Chang et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: IMSNU 11158. High-quality 16S rRNA sequence S000014472 (RDP), AF275377 (Genbank). N4Lid DOI: 10.1601/nm.1780

*Comamonas nitratorans*<sup>VP</sup> Etchebehere et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13191. High-quality 16S rRNA sequence S000127018 (RDP), AJ251577 (Genbank). N4Lid DOI: 10.1601/nm.1781

*Comamonas testosteroni*<sup>VP</sup> (Marcus and Talalay 1956) Tamaoka et al. 1987. <== *Pseudomonas testosteroni* (basonym). Synonym links through N4Lid: 10.1601/ex.2697. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11996. High-quality 16S rRNA sequence S000436037 (RDP), M11224 (Genbank). GOLD ID: Gi01330. GCAT ID: 001742\_GCAT. Entrez genome id: 17465. Sequenced strain: DSM 14576 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.1782

† *Pseudomonas testosteroni*<sup>AL</sup> Marcus and Talalay 1956. ==> *Comamonas testosteroni* (new combination). Synonym links through N4Lid: 10.1601/ex.2697. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11996. High-quality 16S rRNA sequence S000436037 (RDP), M11224 (Genbank). GOLD ID: Gi01330. GCAT ID: 001742\_GCAT. Entrez genome id: 17465. Sequenced strain: DSM 14576 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.2697



- Genus *Acidovorax*** <sup>VP</sup> Willems et al. 1990. GOLD ID: Gc00485. GCAT ID: 000124\_GCAT. Entrez genome id: 15685. Sequenced strain: JS42 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.1783
- Acidovorax facilis* <sup>VP</sup> (Schatz and Bovell 1952) Willems et al. 1990. <== *Pseudomonas facilis* (basonym). Synonym links through N4Lid: 10.1601/ex.2601. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11228. High-quality 16S rRNA sequence S000428521 (RDP), AF078765 (Genbank). N4Lid DOI: 10.1601/nm.1784
- † *Pseudomonas facilis* <sup>AL</sup> (Schatz and Bovell 1952) Davis 1969. ==> *Acidovorax facilis* (new combination). Synonym links through N4Lid: 10.1601/ex.2601. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11228. High-quality 16S rRNA sequence S000428521 (RDP), AF078765 (Genbank). N4Lid DOI: 10.1601/nm.2601
- Acidovorax anthurii* <sup>VP</sup> Gardan et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 107058. High-quality 16S rRNA sequence S000131286 (RDP), AJ007013 (Genbank). N4Lid DOI: 10.1601/nm.1785
- Acidovorax avenae* subsp. *avenae* <sup>VP</sup> (Manns 1909) Willems et al. 1992. <== *Pseudomonas avenae* subsp. *avenae* (basonym). Synonym links through N4Lid: 10.1601/ex.2568. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19307. High-quality 16S rRNA sequence S000009495 (RDP), AB021421 (Genbank). N4Lid DOI: 10.1601/nm.1786
- † *Pseudomonas avenae* subsp. *avenae* <sup>VP</sup> Manns 1909. ==> *Acidovorax avenae* subsp. *avenae* (new combination). Synonym links through N4Lid: 10.1601/ex.2568. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19860. High-quality 16S rRNA sequence S000009495 (RDP), AB021421 (Genbank). N4Lid DOI: 10.1601/nm.2568
- † *Pseudomonas rubrilineans* <sup>AL</sup> (Lee et al. 1925) Stapp 1928. ≈ *Acidovorax avenae* subsp. *avenae* (earlier heterotypic synonym), links through 10.1601/nm.1786. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19860. N4Lid DOI: 10.1601/nm.2681
- Acidovorax avenae* subsp. *cattleyae* <sup>VP</sup> (Pavarino 1911) Willems et al. 1992. <== *Pseudomonas cattleyae* (basonym). Synonym links through N4Lid: 10.1601/ex.2582. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33619. High-quality 16S rRNA sequence S000428518 (RDP), AF078762 (Genbank). N4Lid DOI: 10.1601/nm.1787
- † *Pseudomonas cattleyae* <sup>AL</sup> (Pavarino 1911) Savulescu 1947. ==> *Acidovorax avenae* subsp. *cattleyae* (new combination). Synonym links through N4Lid: 10.1601/ex.2582. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33619. High-quality 16S rRNA sequence S000428518 (RDP), AF078762 (Genbank). N4Lid DOI: 10.1601/nm.2582
- Acidovorax avenae* subsp. *citrulli* <sup>VP</sup> (Schaad et al. 1978) Willems et al. 1992. <== *Pseudomonas pseudoalcaligenes* subsp. *citrulli* (basonym). Synonym links through N4Lid: 10.1601/ex.2669. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29625. High-quality 16S rRNA sequence S000428517 (RDP), AF078761 (Genbank). GOLD ID: Gc00484. GCAT ID: 000125\_GCAT. Entrez genome id: 15708. Sequenced strain: AAC00-1 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.1788
- † *Pseudomonas avenae* subsp. *citrulli* <sup>VP</sup> (Schaad et al. 1978) Hu et al. 1991. <== *Pseudomonas pseudoalcaligenes* subsp. *citrulli* (basonym). *Acidovorax avenae* subsp. *citrulli* (new combination). Synonym links through N4Lid: 10.1601/ex.2669. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29625. High-quality 16S rRNA sequence S000428517 (RDP), AF078761 (Genbank). GOLD ID: Gc00484. GCAT ID: 000125\_GCAT. Entrez genome id: 15708. Sequenced strain: AAC00-1 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.2569
- † *Pseudomonas pseudoalcaligenes* subsp. *citrulli* <sup>AL</sup> Schaad et al. 1978. ==> *Pseudomonas avenae* subsp. *citrulli* (new combination). Synonym links through N4Lid: 10.1601/ex.2669. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29625. High-quality 16S rRNA sequence S000428517 (RDP), AF078761 (Genbank). GOLD ID: Gc00484. GCAT ID: 000125\_GCAT. Entrez genome id: 15708. Sequenced strain: AAC00-1 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.2669

*Acidovorax defluvii*<sup>VP</sup> Schulze et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 12644. High-quality 16S rRNA sequence S000020603 (RDP), Y18616 (Genbank). N4Lid DOI: 10.1601/nm.1789

*Acidovorax delafieldii*<sup>VP</sup> (Davis 1970) Willems et al. 1990. <== *Pseudomonas delafieldii* (basonym). Synonym links through N4Lid: 10.1601/ex.2595. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17505. High-quality 16S rRNA sequence S000428520 (RDP), AF078764 (Genbank). N4Lid DOI: 10.1601/nm.1790

† *Pseudomonas delafieldii*<sup>AL</sup> Davis 1970. ==> *Acidovorax delafieldii* (new combination). Synonym links through N4Lid: 10.1601/ex.2595. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17505. High-quality 16S rRNA sequence S000428520 (RDP), AF078764 (Genbank). N4Lid DOI: 10.1601/nm.2595

*Acidovorax konjaci*<sup>VP</sup> (Goto 1983) Willems et al. 1992. <== *Pseudomonas pseudoalcaligenes* subsp. *konjaci* (basonym). Synonym links through N4Lid: 10.1601/ex.2670. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33996. High-quality 16S rRNA sequence S000428516 (RDP), AF078760 (Genbank). N4Lid DOI: 10.1601/nm.1791

† *Pseudomonas avenae* subsp. *konjaci*<sup>VP</sup> (Goto 1983) Hu et al. 1991. <== *Pseudomonas pseudoalcaligenes* subsp. *konjaci* (basonym). *Acidovorax konjaci* (new combination). Synonym links through N4Lid: 10.1601/ex.2670. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33996. High-quality 16S rRNA sequence S000428516 (RDP), AF078760 (Genbank). N4Lid DOI: 10.1601/nm.2570

† *Pseudomonas pseudoalcaligenes* subsp. *konjaci*<sup>VP</sup> Goto 1983. ==> *Pseudomonas avenae* subsp. *konjaci* (new combination). Synonym links through N4Lid: 10.1601/ex.2670. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33996. High-quality 16S rRNA sequence S000428516 (RDP), AF078760 (Genbank). N4Lid DOI: 10.1601/nm.2670

*Acidovorax temperans*<sup>VP</sup> Willems et al. 1990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49665. High-quality 16S rRNA sequence S000428522 (RDP), AF078766 (Genbank). GOLD ID: Gi01474. GCAT ID: 000618\_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.1792

*Acidovorax valerianellae*<sup>VP</sup> Gardan et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CFBP 4730. High-quality 16S rRNA sequence S000133753 (RDP), AJ431731 (Genbank). N4Lid DOI: 10.1601/nm.1793

**Genus *Alicyclophilus***<sup>VP</sup> Mechichi et al. 2003. N4Lid DOI: 10.1601/nm.1794

*Alicyclophilus denitrificans*<sup>VP</sup> Mechichi et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14773. High-quality 16S rRNA sequence S000114995 (RDP), AJ418042 (Genbank). N4Lid DOI: 10.1601/nm.1795

**Genus *Brachymonas***<sup>VP</sup> Hiraishi et al. 1995. N4Lid DOI: 10.1601/nm.1796

*Brachymonas denitrificans*<sup>VP</sup> Hiraishi et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15123. High-quality 16S rRNA sequence S000413519 (RDP), D14320 (Genbank). N4Lid DOI: 10.1601/nm.1797

**Genus *Caldimonas***<sup>VP</sup> Takeda et al. 2002. N4Lid DOI: 10.1601/nm.1800

*Caldimonas manganoxidans*<sup>VP</sup> Takeda et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-369. High-quality 16S rRNA sequence S000381885 (RDP), AB008801 (Genbank). N4Lid DOI: 10.1601/nm.1801

*Caldimonas taiwanensis*<sup>VP</sup> Chen et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22827. High-quality 16S rRNA sequence S000468017 (RDP), AY845052 (Genbank). N4Lid 10.1601/nm.9650

**Genus *Curvibacter***<sup>VP</sup> Ding and Yokota 2004. N4Lid DOI: 10.1601/nm.8565

*Curvibacter gracilis*<sup>VP</sup> Ding and Yokota 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-807. High-quality 16S rRNA sequence S000439510 (RDP), AB109889 (Genbank). N4Lid DOI: 10.1601/nm.8567

*Curvibacter delicatus*<sup>VP</sup> (Leifson 1962) Ding and Yokota 2004. <== *Aquaspirillum delicatum* (basonym). Synonym links through N4Lid: 10.1601/ex.1943. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14667. High-quality 16S rRNA sequence S000428512 (RDP), AF078756 (Genbank). N4Lid DOI: 10.1601/nm.8566

† *Aquaspirillum delicatum*<sup>AL</sup> (Leifson 1962) Hylemon et al. 1973. ==> *Curvibacter delicatus* (new combination). Synonym links through N4Lid: 10.1601/ex.1943. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14667. High-quality 16S rRNA sequence S000428512 (RDP), AF078756 (Genbank). N4Lid DOI: 10.1601/nm.1943

*Curvibacter lanceolatus*<sup>VP</sup> (Leifson 1962) Ding and Yokota 2004. <== *Pseudomonas lanceolata* (basonym). Synonym links through N4Lid: 10.1601/ex.2629. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14669. High-quality 16S rRNA sequence S000015591 (RDP), AB021390 (Genbank). N4Lid DOI: 10.1601/nm.8568

† *Pseudomonas lanceolata*<sup>AL</sup> Leifson 1962. ==> *Curvibacter lanceolatus* (new combination). Synonym links through N4Lid: 10.1601/ex.2629. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14669. High-quality 16S rRNA sequence S000015591 (RDP), AB021390 (Genbank). N4Lid DOI: 10.1601/nm.2629

**Genus *Delftia***<sup>VP</sup> Wen et al. 1999. N4Lid DOI: 10.1601/nm.1802

*Delftia acidovorans*<sup>VP</sup> (den Dooren de Jong 1926) Wen et al. 1999. <== *Pseudomonas acidovorans* (basonym). Synonym links through N4Lid: 10.1601/ex.2555. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15668. High-quality 16S rRNA sequence S000010699 (RDP), AB021417 (Genbank). GOLD ID: Gi01332. GCAT ID: 001744\_GCAT. Entrez genome id: 17413. Sequenced strain: ATCC 15668 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.1803

† *Comamonas acidovorans*<sup>VP</sup> (den Dooren de Jong 1926) Tamaoka et al. 1987. <== *Pseudomonas acidovorans* (basonym). *Delftia acidovorans* (new combination). Synonym links through N4Lid: 10.1601/ex.2555. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15668. High-quality 16S rRNA sequence S000010699 (RDP), AB021417 (Genbank). GOLD ID: Gi01332. GCAT ID: 001744\_GCAT. Entrez genome id: 17413. Sequenced strain: ATCC 15668 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.1776

† *Pseudomonas acidovorans*<sup>AL</sup> den Dooren de Jong 1926. ==> *Comamonas acidovorans* (new combination). Synonym links through N4Lid: 10.1601/ex.2555. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15668. High-quality 16S rRNA sequence S000010699 (RDP), AB021417 (Genbank). GOLD ID: Gi01332. GCAT ID: 001744\_GCAT. Entrez genome id: 17413. Sequenced strain: ATCC 15668 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2555

*Delftia tsuruhatensis*<sup>VP</sup> Shigematsu et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-554. High-quality 16S rRNA sequence S000146281 (RDP), AB075017 (Genbank). N4Lid DOI: 10.1601/nm.1804

**Genus *Diaphorobacter***<sup>VP</sup> Khan and Hiraishi 2003. N4Lid DOI: 10.1601/nm.1805

*Diaphorobacter nitroreducens*<sup>VP</sup> Khan and Hiraishi 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 107294. High-quality 16S rRNA sequence S000384110 (RDP), AB064317 (Genbank). N4Lid DOI: 10.1601/nm.1806

**Genus *Giesbergia***<sup>VP</sup> Grabovich et al. 2006. N4Lid 10.1601/nm.9942

*Giesbergia voronezhensis*<sup>VP</sup> Grabovich et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 12825. High-quality 16S rRNA sequence S000610620 (RDP), AY780907 (Genbank). N4Lid 10.1601/nm.9940

*Giesbergia kuznetsovii*<sup>VP</sup> Grabovich et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 12827. High-quality 16S rRNA sequence S000610618 (RDP), AY780905 (Genbank). N4Lid 10.1601/nm.9941

*Giesbergia anulus*<sup>VP</sup> (Williams and Rittenberg 1957) Grabovich et al. 2006. <== *Aquaspirillum anulus* (basonym). Synonym links through N4Lid: 10.1601/ex.1939. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35958. N4Lid 10.1601/nm.9770

- † *Aquaspirillum anulus*<sup>AL</sup> (Williams and Rittenberg 1957) Hylemon et al. 1973. ==> *Giesbergeria anulus* (new combination). Synonym links through N4Lid: 10.1601/ex.1939. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35958. N4Lid DOI: 10.1601/nm.1939
- Giesbergeria giesbergeri*<sup>VP</sup> (Williams and Rittenberg 1957) Grabovich et al. 2006. <== *Aquaspirillum giesbergeri* (basonym). Synonym links through N4Lid: 10.1601/ex.1946. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11334. N4Lid 10.1601/nm.9771
- † *Aquaspirillum giesbergeri*<sup>AL</sup> (Williams and Rittenberg 1957) Hylemon et al. 1973. ==> *Giesbergeria giesbergeri* (new combination). Synonym links through N4Lid: 10.1601/ex.1946. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11334. N4Lid DOI: 10.1601/nm.1946
- Giesbergeria sinuosa*<sup>VP</sup> (Williams and Rittenberg 1957) Grabovich et al. 2006. <== *Aquaspirillum sinuosum* (basonym). Synonym links through N4Lid: 10.1601/ex.1957. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 9786. High-quality 16S rRNA sequence S000428510 (RDP), AF078754 (Genbank). N4Lid 10.1601/nm.9774
- † *Aquaspirillum sinuosum*<sup>AL</sup> (Williams and Rittenberg 1957) Hylemon et al. 1973. ==> *Giesbergeria sinuosa* (new combination). Synonym links through N4Lid: 10.1601/ex.1957. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 9786. High-quality 16S rRNA sequence S000428510 (RDP), AF078754 (Genbank). N4Lid DOI: 10.1601/nm.1957
- Genus *Hydrogenophaga***<sup>VP</sup> Willems et al. 1989. N4Lid DOI: 10.1601/nm.1807
- Hydrogenophaga atypica*<sup>VP</sup> Kämpfer et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12889. High-quality 16S rRNA sequence S000471102 (RDP), AJ585992 (Genbank). N4Lid 10.1601/nm.8622
- Hydrogenophaga defluvii*<sup>VP</sup> Kämpfer et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15342. High-quality 16S rRNA sequence S000471103 (RDP), AJ585993 (Genbank). N4Lid 10.1601/nm.8623
- Hydrogenophaga flava*<sup>VP</sup> (Niklewski 1910) Willems et al. 1989. <== *Pseudomonas flava* (basonym). Synonym links through N4Lid: 10.1601/ex.2603. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33667. High-quality 16S rRNA sequence S000428527 (RDP), AF078771 (Genbank). N4Lid DOI: 10.1601/nm.1808
- † *Pseudomonas flava*<sup>AL</sup> (Niklewski 1910) Davis 1969. ==> *Hydrogenophaga flava* (new combination). Synonym links through N4Lid: 10.1601/ex.2603. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33667. High-quality 16S rRNA sequence S000428527 (RDP), AF078771 (Genbank). N4Lid DOI: 10.1601/nm.2603
- Hydrogenophaga intermedia*<sup>VP</sup> Contzen et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 5680. High-quality 16S rRNA sequence S000387155 (RDP), AF019037 (Genbank). N4Lid DOI: 10.1601/nm.1809
- Hydrogenophaga palleronii*<sup>VP</sup> (Davis 1970) Willems et al. 1989. <== *Pseudomonas palleronii* (basonym). Synonym links through N4Lid: 10.1601/ex.2657. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17724. High-quality 16S rRNA sequence S000428525 (RDP), AF078769 (Genbank). N4Lid DOI: 10.1601/nm.1810
- † *Pseudomonas palleronii*<sup>AL</sup> Davis 1970. ==> *Hydrogenophaga palleronii* (new combination). Synonym links through N4Lid: 10.1601/ex.2657. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17724. High-quality 16S rRNA sequence S000428525 (RDP), AF078769 (Genbank). N4Lid DOI: 10.1601/nm.2657
- Hydrogenophaga pseudoflava*<sup>VP</sup> (Auling et al. 1978) Willems et al. 1989. <== *Pseudomonas pseudoflava* (basonym). Synonym links through N4Lid: 10.1601/ex.2671. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33668. High-quality 16S rRNA sequence S000428526 (RDP), AF078770 (Genbank). N4Lid DOI: 10.1601/nm.1811
- † *Pseudomonas pseudoflava*<sup>AL</sup> Auling et al. 1978. ==> *Hydrogenophaga pseudoflava* (new combination). Synonym links through N4Lid: 10.1601/ex.2671. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33668. High-quality 16S rRNA sequence S000428526 (RDP), AF078770 (Genbank). N4Lid DOI: 10.1601/nm.2671



*Hydrogenophaga taeniospiralis*<sup>VP</sup> (Lalucat et al. 1982) Willems et al. 1989. <== *Pseudomonas taeniospiralis* (basonym). Synonym links through N4Lid: 10.1601/ex.2695. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49743. High-quality 16S rRNA sequence S000428524 (RDP), AF078768 (Genbank). N4Lid DOI: 10.1601/nm.1812

† *Pseudomonas taeniospiralis*<sup>VP</sup> Lalucat et al. 1982. ==> *Hydrogenophaga taeniospiralis* (new combination). Synonym links through N4Lid: 10.1601/ex.2695. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49743. High-quality 16S rRNA sequence S000428524 (RDP), AF078768 (Genbank). N4Lid DOI: 10.1601/nm.2695

**Genus *Hylemonella***<sup>VP</sup> Spring et al. 2004. N4Lid DOI: 10.1601/nm.1813

*Hylemonella gracilis*<sup>VP</sup> (Canale-Parola et al. 1966) Spring et al. 2004. <== *Aquaspirillum gracile* (basonym). Synonym links through N4Lid: 10.1601/ex.1947. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19624. High-quality 16S rRNA sequence S000428509 (RDP), AF078753 (Genbank). N4Lid DOI: 10.1601/nm.1814

† *Aquaspirillum gracile*<sup>AL</sup> (Canale-Parola et al. 1966) Hylemon et al. 1973. ==> *Hylemonella gracilis* (new combination). Synonym links through N4Lid: 10.1601/ex.1947. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19624. High-quality 16S rRNA sequence S000428509 (RDP), AF078753 (Genbank). N4Lid DOI: 10.1601/nm.1947

**Genus *Lampropedia***<sup>AL</sup> Schroeter 1886. N4Lid DOI: 10.1601/nm.1815

*Lampropedia hyalina*<sup>AL</sup> (Ehrenberg 1832) Schroeter 1886. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11041. N4Lid DOI: 10.1601/nm.1816

**Genus *Macromonas***<sup>VP</sup> Utermöhl and Koppe 1924. N4Lid DOI: 10.1601/nm.1817

*Macromonas mobilis*<sup>AL</sup> (Lauterborn 1915) Utermöhl and Koppe 1924. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.1818

*Macromonas bipunctata*<sup>VP</sup> (ex Gicklhorn 1920) Dubinina and Grabovich 1989. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 12705. N4Lid DOI: 10.1601/nm.1819

**Genus *Ottowia***<sup>VP</sup> Spring et al. 2004. N4Lid DOI: 10.1601/nm.1820

*Ottowia thiooxydans*<sup>VP</sup> Spring et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14619. High-quality 16S rRNA sequence S000263441 (RDP), AJ537466 (Genbank). N4Lid DOI: 10.1601/nm.1821

**Genus *Malikia***<sup>VP</sup> Spring et al. 2005. N4Lid 10.1601/nm.9349

*Malikia spinosa*<sup>VP</sup> (Leifson 1962) Spring et al. 2005. <== *Pseudomonas spinosa* (basonym). Synonym links through N4Lid: 10.1601/ex.2687. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14606. High-quality 16S rRNA sequence S000008395 (RDP), AB021387 (Genbank). N4Lid 10.1601/nm.9265

† *Pseudomonas spinosa*<sup>AL</sup> Leifson 1962. ==> *Malikia spinosa* (new combination). Synonym links through N4Lid: 10.1601/ex.2687. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14606. High-quality 16S rRNA sequence S000008395 (RDP), AB021387 (Genbank). N4Lid DOI: 10.1601/nm.2687

*Malikia granosa*<sup>VP</sup> Spring et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15619. High-quality 16S rRNA sequence S000539474 (RDP), AJ627188 (Genbank). N4Lid 10.1601/nm.9348

**Genus *Polaromonas***<sup>VP</sup> Irgens et al. 1996. GOLD ID: Gc00368. GCAT ID: 000242\_GCAT. Entrez genome id: 13121. Sequenced strain: JS666 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.1822

*Polaromonas vacuolata*<sup>VP</sup> Irgens et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51984. High-quality 16S rRNA sequence S000437168 (RDP), U14585 (Genbank). N4Lid DOI: 10.1601/nm.1823

*Polaromonas aquatica*<sup>VP</sup> Kämpfer et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 39402. High-quality 16S rRNA sequence S000531418 (RDP), AM039830 (Genbank). N4Lid 10.1601/nm.9944

*Polaromonas naphthalenivorans*<sup>VP</sup> Jeon et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-779. High-quality 16S rRNA sequence S000399364 (RDP), AY166684 (Genbank). GOLD ID: Gc00486. GCAT ID: 000123\_GCAT. Entrez genome id: 13418. Sequenced strain: CJ2 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.1824

**Genus *Ramlibacter***<sup>VP</sup> Heulin et al. 2003. N4Lid DOI: 10.1601/nm.1825

*Ramlibacter tataouinensis*<sup>VP</sup> Heulin et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-407. High-quality 16S rRNA sequence S000388105 (RDP), AF144383 (Genbank). GOLD ID: Gi01393. GCAT ID: 001425\_GCAT. Entrez genome id: 16294. Sequenced strain: ATCC BAA-407 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.1826

*Ramlibacter henchirensis*<sup>VP</sup> Heulin et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-408. High-quality 16S rRNA sequence S000394160 (RDP), AF439400 (Genbank). N4Lid DOI: 10.1601/nm.1827

**Genus *Rhodoferax***<sup>VP</sup> Hiraishi et al. 1992. N4Lid DOI: 10.1601/nm.1828

*Rhodoferax fermentans*<sup>VP</sup> Hiraishi et al. 1992. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49787. High-quality 16S rRNA sequence S000413544 (RDP), D16211 (Genbank). N4Lid DOI: 10.1601/nm.1829

*Rhodoferax antarcticus*<sup>VP</sup> Madigan et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700587. High-quality 16S rRNA sequence S000428668 (RDP), AF084947 (Genbank). N4Lid DOI: 10.1601/nm.1830

*Rhodoferax ferrireducens*<sup>VP</sup> Finneran et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-621. High-quality 16S rRNA sequence S000394152 (RDP), AF435948 (Genbank). GOLD ID: Gc00359. GCAT ID: 000251\_GCAT. Entrez genome id: 13908. Sequenced strain: ATCC BAA-621 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.1831

**Genus *Simplicispira***<sup>VP</sup> Grabovich et al. 2006. N4Lid 10.1601/nm.9943

*Simplicispira metamorpha*<sup>VP</sup> (Terasaki 1961) Grabovich et al. 2006. <== *Aquaspirillum metamorphum* (basonym). Synonym links through N4Lid: 10.1601/ex.1951. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15280. High-quality 16S rRNA sequence S000428513 (RDP), AF078757 (Genbank). N4Lid 10.1601/nm.9772

† *Aquaspirillum metamorphum*<sup>AL</sup> (Terasaki 1961) Hylemon et al. 1973. ==> *Simplicispira metamorpha* (new combination). Synonym links through N4Lid: 10.1601/ex.1951. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15280. High-quality 16S rRNA sequence S000428513 (RDP), AF078757 (Genbank). N4Lid DOI: 10.1601/nm.1951

*Simplicispira psychrophila*<sup>VP</sup> (Terasaki 1973) Grabovich et al. 2006. <== *Aquaspirillum psychrophilum* (basonym). Synonym links through N4Lid: 10.1601/ex.1955. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33335. High-quality 16S rRNA sequence S000428511 (RDP), AF078755 (Genbank). N4Lid 10.1601/nm.9773

† *Aquaspirillum psychrophilum*<sup>AL</sup> (Terasaki 1973) Terasaki 1979. ==> *Simplicispira psychrophila* (new combination). Synonym links through N4Lid: 10.1601/ex.1955. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33335. High-quality 16S rRNA sequence S000428511 (RDP), AF078755 (Genbank). N4Lid DOI: 10.1601/nm.1955

**Genus *Variovorax***<sup>VP</sup> Willems et al. 1991. N4Lid DOI: 10.1601/nm.1832

*Variovorax dokdonensis*<sup>VP</sup> Yoon et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108838. High-quality 16S rRNA sequence S000603880 (RDP), DQ178978 (Genbank). N4Lid 10.1601/nm.9989

*Variovorax paradoxus*<sup>VP</sup> (Davis 1969) Willems et al. 1991. <== *Alcaligenes paradoxus* (basonym). Synonym links through N4Lid: 10.1601/ex.1733. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17713. High-quality 16S rRNA sequence S000021263 (RDP), AJ420329 (Genbank). N4Lid DOI: 10.1601/nm.1833

† *Alcaligenes paradoxus*<sup>AL</sup> Davis 1969. ==> *Variovorax paradoxus* (new combination).  
Synonym links through N4Lid: 10.1601/ex.1733. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17713. High-quality 16S rRNA sequence S000021263 (RDP), AJ420329 (Genbank). N4Lid DOI: 10.1601/nm.1733

**Genus *Xenophilus***<sup>VP</sup> Blümel et al. 2001. N4Lid DOI: 10.1601/nm.1834

*Xenophilus azovorans*<sup>VP</sup> Blümel et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-794. High-quality 16S rRNA sequence S000390657 (RDP), AF285414 (Genbank). N4Lid DOI: 10.1601/nm.1835

**Family *Incertae sedis***<sup>NVP</sup> N4Lid DOI: 10.1601/nm.1836

**Genus *Aquabacterium***<sup>VP</sup> Kalmbach et al. 1999. N4Lid DOI: 10.1601/nm.1837

*Aquabacterium commune*<sup>VP</sup> Kalmbach et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-209. High-quality 16S rRNA sequence S000427922 (RDP), AF035054 (Genbank). N4Lid DOI: 10.1601/nm.1838

*Aquabacterium citratiphilum*<sup>VP</sup> Kalmbach et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-207. High-quality 16S rRNA sequence S000427918 (RDP), AF035050 (Genbank). N4Lid DOI: 10.1601/nm.1839

*Aquabacterium parvum*<sup>VP</sup> Kalmbach et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-208. High-quality 16S rRNA sequence S000427920 (RDP), AF035052 (Genbank). N4Lid DOI: 10.1601/nm.1840

**Genus *Azohydromonas***<sup>VP</sup> Xie and Yokota 2005. N4Lid 10.1601/nm.9737

*Azohydromonas lata*<sup>VP</sup> (Palleroni and Palleroni 1978) Xie and Yokota 2005. <== *Alcaligenes latus* (basonym). Synonym links through N4Lid: 10.1601/ex.1731. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29712. High-quality 16S rRNA sequence S000414185 (RDP), D88007 (Genbank). N4Lid 10.1601/nm.9253

† *Alcaligenes latus*<sup>AL</sup> Palleroni and Palleroni 1978. ==> *Azohydromonas lata* (new combination). Synonym links through N4Lid: 10.1601/ex.1731. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29712. High-quality 16S rRNA sequence S000414185 (RDP), D88007 (Genbank). N4Lid DOI: 10.1601/nm.1731

*Azohydromonas australica*<sup>VP</sup> Xie and Yokota 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29713. High-quality 16S rRNA sequence S000543171 (RDP), AB188124 (Genbank). N4Lid 10.1601/nm.9738

**Genus *Ideonella***<sup>VP</sup> Malmqvist et al. 1994. N4Lid DOI: 10.1601/nm.1841

*Ideonella dechloratans*<sup>VP</sup> Malmqvist et al. 1994. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51718. High-quality 16S rRNA sequence S000012981 (RDP), X72724 (Genbank). N4Lid DOI: 10.1601/nm.1842

**Genus *Leptothrix***<sup>AL</sup> Kützing 1843. N4Lid DOI: 10.1601/nm.1843

*Leptothrix ochracea*<sup>AL</sup> (Roth 1797) Kützing 1843. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.1844

*Leptothrix cholodnii*<sup>AL</sup> Mulder and van Veen 1963. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LVMW 99. GOLD ID: Gi01560. GCAT ID: 001167\_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.1845

*Leptothrix discophora*<sup>VP</sup> (ex Schwere 1912) Spring et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43182. High-quality 16S rRNA sequence S000414590 (RDP), L33975 (Genbank). N4Lid DOI: 10.1601/nm.1846

*Leptothrix lopholea*<sup>AL</sup> Dorff 1934. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LVMW 124. N4Lid DOI: 10.1601/nm.1847

*Leptothrix mobilis*<sup>VP</sup> Spring et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 10617. High-quality 16S rRNA sequence S000009256 (RDP), X97071 (Genbank). N4Lid DOI: 10.1601/nm.1848

**Genus *Methylibium***<sup>VP</sup> Nakatsu et al. 2006. N4Lid DOI: 10.1601/nm.10045

*Methylibium petroleiphilum*<sup>VP</sup> Nakatsu et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1232. High-quality 16S rRNA sequence S000388643 (RDP), AF176594 (Genbank). N4Lid DOI: 10.1601/nm.10044

**Genus *Mitsuaria***<sup>VP</sup> Amakata et al. 2005. N4Lid 10.1601/nm.9622

*Mitsuaria chitosanitabida*<sup>VP</sup> Amakata et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-476. High-quality 16S rRNA sequence S000381787 (RDP), AB006851 (Genbank). N4Lid 10.1601/nm.9621

**Genus *Paucibacter***<sup>VP</sup> Rapala et al. 2005. N4Lid 10.1601/nm.9530

*Paucibacter toxinivorans*<sup>VP</sup> Rapala et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16998. High-quality 16S rRNA sequence S000572911 (RDP), AY515390 (Genbank). N4Lid 10.1601/nm.9529

**Genus *Pelomonas***<sup>VP</sup> Xie and Yokota 2005. N4Lid 10.1601/nm.9736

*Pelomonas saccharophila*<sup>VP</sup> (Doudoroff 1940) Xie and Yokota 2005. <== *Pseudomonas saccharophila* (basonym). Synonym links through N4Lid: 10.1601/ex.2683. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15946. High-quality 16S rRNA sequence S000015214 (RDP), AB021407 (Genbank). N4Lid 10.1601/nm.9264

† *Pseudomonas saccharophila*<sup>AL</sup> Doudoroff 1940. ==> *Pelomonas saccharophila* (new combination). Synonym links through N4Lid: 10.1601/ex.2683. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15946. High-quality 16S rRNA sequence S000015214 (RDP), AB021407 (Genbank). N4Lid DOI: 10.1601/nm.2683

**Genus *Roseateles***<sup>VP</sup> Suyama et al. 1999. N4Lid DOI: 10.1601/nm.1849

*Roseateles depolymerans*<sup>VP</sup> Suyama et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 11813. High-quality 16S rRNA sequence S000018929 (RDP), AB003623 (Genbank). N4Lid DOI: 10.1601/nm.1850

**Genus *Rubrivivax***<sup>VP</sup> Willems et al. 1991. N4Lid DOI: 10.1601/nm.1851

*Rubrivivax gelatinosus*<sup>VP</sup> (Molisch 1907) Willems et al. 1991. <== *Rhodopseudomonas gelatinosa* (basonym). Synonym links through N4Lid: 10.1601/ex.1500. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17011. High-quality 16S rRNA sequence S000413546 (RDP), D16213 (Genbank). GOLD ID: Gc00501. GCAT ID: 000108\_GCAT. Entrez genome id: 10789. Sequenced strain: ATCC BAA-1232 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.1852

† *Rhodocyclus gelatinosus*<sup>VP</sup> (Molisch 1907) Imhoff et al. 1984. <== *Rhodopseudomonas gelatinosa* (basonym). *Rubrivivax gelatinosus* (new combination). Synonym links through N4Lid: 10.1601/ex.1500. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17011. High-quality 16S rRNA sequence S000413546 (RDP), D16213 (Genbank). GOLD ID: Gc00501. GCAT ID: 000108\_GCAT. Entrez genome id: 10789. Sequenced strain: ATCC BAA-1232 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 0 (NCBI). N4Lid DOI: 10.1601/nm.2019

† *Rhodopseudomonas gelatinosa*<sup>AL</sup> (Molisch 1907) van Niel 1944. ==> *Rhodocyclus gelatinosus* (new combination). Synonym links through N4Lid: 10.1601/ex.1500. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17011. High-quality 16S rRNA sequence S000413546 (RDP), D16213 (Genbank). GOLD ID: Gc00501. GCAT ID: 000108\_GCAT. Entrez genome id: 10789. Sequenced strain: ATCC BAA-1232 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 0 (NCBI). N4Lid DOI: 10.1601/nm.1500

*Rubrivivax benzoatilyticus*<sup>VP</sup> Ramana et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-35. High-quality 16S rRNA sequence S000539895 (RDP), AJ888903 (Genbank). N4Lid DOI: 10.1601/nm.10287

**Genus *Schlegelella***<sup>VP</sup> Elbanna et al. 2003. ≈ *Schlegelella* (later heterotypic synonym), links through 10.1601/nm.1853. N4Lid DOI: 10.1601/nm.1853

*Schlegelella thermodepolymerans*<sup>VP</sup> Elbanna et al. 2003. ≈ *Caenibacterium thermophilum* (later heterotypic synonym), links through 10.1601/nm.1854. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15344. High-quality 16S rRNA sequence S000398318 (RDP), AY152824 (Genbank). N4Lid DOI: 10.1601/nm.1854



- † *Caenibacterium thermophilum*<sup>VP</sup> Manaia et al. 2003. ≈ *Schlegelella thermodepolymerans* (earlier heterotypic synonym), links through 10.1601/nm.1854. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15264. High-quality 16S rRNA sequence S000351777 (RDP), AJ512945 (Genbank). N4Lid DOI: 10.1601/nm.1799
- Genus** † *Caenibacterium*<sup>VP</sup> Manaia et al. 2003. ≈ *Schlegelella* (earlier heterotypic synonym), links through 10.1601/nm.1853. N4Lid DOI: 10.1601/nm.1798
- Genus** *Sphaerotilus*<sup>AL</sup> Kützing 1833. N4Lid DOI: 10.1601/nm.1855
- Sphaerotilus natans*<sup>AL</sup> Kützing 1833. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13338. N4Lid DOI: 10.1601/nm.1856
- Genus** *Tepidicella*<sup>VP</sup> França et al. 2006. N4Lid DOI: 10.1601/nm.10002
- Tepidicella xavieri*<sup>VP</sup> França et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108724. High-quality 16S rRNA sequence S000653221 (RDP), DQ295805 (Genbank). N4Lid DOI: 10.1601/nm.10001
- Genus** *Tepidimonas*<sup>VP</sup> Moreira et al. 2000. N4Lid DOI: 10.1601/nm.1857
- Tepidimonas ignava*<sup>VP</sup> Moreira et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 12034. High-quality 16S rRNA sequence S000388699 (RDP), AF177943 (Genbank). N4Lid DOI: 10.1601/nm.1858
- Tepidimonas aquatica*<sup>VP</sup> Freitas et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-469. High-quality 16S rRNA sequence S000327590 (RDP), AY324139 (Genbank). N4Lid DOI: 10.1601/nm.1859
- Tepidimonas taiwanensis*<sup>VP</sup> Chen et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22826. High-quality 16S rRNA sequence S000468019 (RDP), AY845054 (Genbank). N4Lid DOI: 10.1601/nm.10203
- Genus** *Thiobacter*<sup>VP</sup> Hirayama et al. 2005. N4Lid 10.1601/nm.8889
- Thiobacter subterraneus*<sup>VP</sup> Hirayama et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-941. High-quality 16S rRNA sequence S000469824 (RDP), AB180657 (Genbank). N4Lid 10.1601/nm.8890
- Genus** *Thiomonas*<sup>VP</sup> Moreira and Amils 1997. GOLD ID: Gi00788. GCAT ID: 001615\_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.1860
- Thiomonas intermedia*<sup>VP</sup> (London 1963) Moreira and Amils 1997. <== *Thiobacillus intermedius* (basonym). Synonym links through N4Lid: 10.1601/ex.1886. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15466. High-quality 16S rRNA sequence S000485441 (RDP), AY455809 (Genbank). N4Lid DOI: 10.1601/nm.1861
- † *Thiobacillus intermedius*<sup>AL</sup> London 1963. ==> *Thiomonas intermedia* (new combination). Synonym links through N4Lid: 10.1601/ex.1886. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15466. High-quality 16S rRNA sequence S000485441 (RDP), AY455809 (Genbank). N4Lid DOI: 10.1601/nm.1886
- Thiomonas cuprina*<sup>VP</sup> Moreira and Amils 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 5495. High-quality 16S rRNA sequence S000438225 (RDP), U67162 (Genbank). N4Lid DOI: 10.1601/nm.1862
- Thiomonas delicata*<sup>VP</sup> (Katayama-Fujimura et al. 1984) Kelly and Wood 2006. <== *Thiobacillus delicatus* (basonym). Synonym links through N4Lid: 10.1601/ex.1881. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17897. N4Lid 10.1601/nm.9789
- † *Thiobacillus delicatus*<sup>VP</sup> (ex Mizoguchi et al. 1976) Katayama-Fujimura et al. 1984. ==> *Thiomonas delicata* (new combination). Synonym links through N4Lid: 10.1601/ex.1881. Source of type material recommended for DOE sponsored genome sequencing by the JGI: IAM 12624. N4Lid DOI: 10.1601/nm.1881
- Thiomonas perometabolis*<sup>VP</sup> (London and Rittenberg 1967) Moreira and Amils 1997. <== *Thiobacillus perometabolis* (basonym). Synonym links through N4Lid: 10.1601/ex.1889. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23370. N4Lid DOI: 10.1601/nm.1863

† *Thiobacillus perometabolis*<sup>AL</sup> London and Rittenberg 1967. ==> *Thiomonas perometabolis* (new combination). Synonym links through N4Lid: 10.1601/ex.1889. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23370. N4Lid DOI: 10.1601/nm.1889

*Thiomonas thermosulfata*<sup>VP</sup> (Shoener et al. 1996) Moreira and Amils 1997. <== *Thiobacillus thermosulfatus* (basonym). Synonym links through N4Lid: 10.1601/ex.1892. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51520. High-quality 16S rRNA sequence S000437411 (RDP), U27839 (Genbank). N4Lid DOI: 10.1601/nm.1864

† *Thiobacillus thermosulfatus*<sup>VP</sup> Shoener et al. 1996. ==> *Thiomonas thermosulfata* (new combination). Synonym links through N4Lid: 10.1601/ex.1892. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51520. High-quality 16S rRNA sequence S000437411 (RDP), U27839 (Genbank). N4Lid DOI: 10.1601/nm.1892

**Genus *Xylophilus***<sup>VP</sup> Willems et al. 1987. N4Lid DOI: 10.1601/nm.1865

*Xylophilus ampelinus*<sup>VP</sup> (Panagopoulos 1969) Willems et al. 1987. <== *Xanthomonas ampelina* (basonym). Synonym links through N4Lid: 10.1601/ex.2211. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33914. High-quality 16S rRNA sequence S000428514 (RDP), AF078758 (Genbank). N4Lid DOI: 10.1601/nm.1866

† *Xanthomonas ampelina*<sup>AL</sup> Panagopoulos 1969. ==> *Xylophilus ampelinus* (new combination). Synonym links through N4Lid: 10.1601/ex.2211. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33914. High-quality 16S rRNA sequence S000428514 (RDP), AF078758 (Genbank). N4Lid DOI: 10.1601/nm.2211

**Order *Hydrogenophilales***<sup>VP</sup> Garrity et al 2006. N4Lid DOI: 10.1601/nm.1867

**Family *Hydrogenophilaceae***<sup>VP</sup> Garrity et al 2006. N4Lid DOI: 10.1601/nm.1868

**Genus *Hydrogenophilus***<sup>VP</sup> Hayashi et al. 1999. N4Lid DOI: 10.1601/nm.1869

*Hydrogenophilus thermoluteolus*<sup>VP</sup> Hayashi et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 106958. High-quality 16S rRNA sequence S000016767 (RDP), AB009828 (Genbank). N4Lid DOI: 10.1601/nm.1870

*Hydrogenophilus hirschii*<sup>VP</sup> Stöhr et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 11420. High-quality 16S rRNA sequence S000071369 (RDP), AJ131694 (Genbank). N4Lid DOI: 10.1601/nm.1871

**Genus *Petrobacter***<sup>VP</sup> Bonilla Salinas et al. 2004. N4Lid 10.1601/nm.8771

*Petrobacter succinatimandens*<sup>VP</sup> Bonilla Salinas et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15512. High-quality 16S rRNA sequence S000356845 (RDP), AY219713 (Genbank). N4Lid 10.1601/nm.8772

**Genus *Tepidiphilus***<sup>VP</sup> Manaia et al. 2003. N4Lid DOI: 10.1601/nm.1872

*Tepidiphilus margaritifera*<sup>VP</sup> Manaia et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15129. High-quality 16S rRNA sequence S000351771 (RDP), AJ504663 (Genbank). N4Lid DOI: 10.1601/nm.1873

**Genus *Thiobacillus***<sup>AL</sup> Beijerinck 1904. N4Lid DOI: 10.1601/nm.1874

*Thiobacillus thioparus*<sup>AL</sup> Beijerinck 1904. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 8158. High-quality 16S rRNA sequence S000541751 (RDP), M79426 (Genbank). N4Lid DOI: 10.1601/nm.1875

*Thiobacillus aquaesulis*<sup>VP</sup> Wood and Kelly 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43788. N4Lid DOI: 10.1601/nm.1878

*Thiobacillus denitrificans*<sup>VP</sup> (ex Beijerinck 1904) Kelly and Harrison 1989. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23644. High-quality 16S rRNA sequence S000016476 (RDP), AJ243144 (Genbank). GOLD ID: Gc00297. GCAT ID: 000313\_GCAT. Entrez genome id: 13025. Sequenced strain: ATCC 25259 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 2 (NCBI). N4Lid DOI: 10.1601/nm.1882

*Thiobacillus rapidirescens*<sup>VP</sup> Katayama-Fujimura et al. 1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25364. N4Lid DOI: 10.1601/nm.1890

**Order Methylophilales**<sup>VP</sup> Garrity et al 2006. GOLD ID: Gi01433. GCAT ID: 000898\_GCAT. Entrez genome id: 18317. Sequenced strain: HTCC2181 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.1896

**Family Methylophilaceae**<sup>VP</sup> Garrity et al 2006. N4Lid DOI: 10.1601/nm.1897

**Genus Methylophilus**<sup>VP</sup> Jenkins et al. 1987. N4Lid DOI: 10.1601/nm.1898

*Methylophilus methylotrophus*<sup>VP</sup> Jenkins et al. 1987. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 53528. High-quality 16S rRNA sequence S000414443 (RDP), L15475 (Genbank). N4Lid DOI: 10.1601/nm.1899

*Methylophilus leisingeri*<sup>VP</sup> corrig. Doronina and Trotsenko 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 6813. High-quality 16S rRNA sequence S000390069 (RDP), AF250333 (Genbank). N4Lid DOI: 10.1601/nm.1900

**Genus Methylobacillus**<sup>AL</sup> Yordy and Weaver 1977. N4Lid DOI: 10.1601/nm.1901

*Methylobacillus glycogenes*<sup>AL</sup> Yordy and Weaver 1977. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29475. High-quality 16S rRNA sequence S000436930 (RDP), M95652 (Genbank). N4Lid DOI: 10.1601/nm.1902

*Methylobacillus flagellatus*<sup>VP</sup> Govorukhina et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51484. High-quality 16S rRNA sequence S000436929 (RDP), M95651 (Genbank). GOLD ID: Gc00367. GCAT ID: 000243\_GCAT. Entrez genome id: 10647. Sequenced strain: KT is type material. Genome sequencing is completed. Number of genomes of this species sequenced 2 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.1903

*Methylobacillus pratensis*<sup>VP</sup> Doronina et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCIMB 13994. High-quality 16S rRNA sequence S000418497 (RDP), AY298905 (Genbank). N4Lid DOI: 10.1601/nm.8698

**Genus Methylovorus**<sup>VP</sup> Govorukhina and Trotsenko 1991. N4Lid DOI: 10.1601/nm.1904

*Methylovorus glucosotrophus*<sup>VP</sup> Govorukhina and Trotsenko 1991. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49758. N4Lid DOI: 10.1601/nm.1905

*Methylovorus mays*<sup>VP</sup> Doronina et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCIMB 13992. N4Lid DOI: 10.1601/nm.1906

**Order Neisseriales**<sup>VP</sup> Tønjum 2006. N4Lid DOI: 10.1601/nm.1907

**Family Neisseriaceae**<sup>AL</sup> Prévot 1933. N4Lid DOI: 10.1601/nm.1908

**Genus Neisseria**<sup>AL</sup> Trevisan 1885. N4Lid DOI: 10.1601/nm.1909

*Neisseria gonorrhoeae*<sup>AL</sup> (Zopf 1885) Trevisan 1885. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19424. High-quality 16S rRNA sequence S000003950 (RDP), X07714 (Genbank). GOLD ID: Gc00258. GCAT ID: 000351\_GCAT. Entrez genome id: 23. Sequenced strain: ATCC 700825 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.1910

*Neisseria animalis*<sup>AL</sup> Berger 1960. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49930. High-quality 16S rRNA sequence S000022013 (RDP), AJ239288 (Genbank). N4Lid DOI: 10.1601/nm.1911

*Neisseria animaloris*<sup>VP</sup> Vandamme et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29858. High-quality 16S rRNA sequence S000541488 (RDP), DQ006842 (Genbank). N4Lid DOI: 10.1601/nm.10234

*Neisseria bacilliformis*<sup>VP</sup> Han et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1200. High-quality 16S rRNA sequence S000541489 (RDP), DQ006843 (Genbank). N4Lid DOI: 10.1601/nm.10198

*Neisseria canis*<sup>AL</sup> Berger 1962. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14687. High-quality 16S rRNA sequence S000414308 (RDP), L06170 (Genbank). N4Lid DOI: 10.1601/nm.1912

*Neisseria cinerea*<sup>AL</sup> (von Lingelsheim 1906) Murray 1939. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14685. N4Lid DOI: 10.1601/nm.1914

*Neisseria dentiae*<sup>VP</sup> Sneath and Barrett 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700276. High-quality 16S rRNA sequence S000429658 (RDP), AF487709 (Genbank). N4Lid DOI: 10.1601/nm.1917

*Neisseria elongata subsp. elongata*<sup>AL</sup> Bøvre and Holten 1970. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25295. High-quality 16S rRNA sequence S000414309 (RDP), L06171 (Genbank). N4Lid DOI: 10.1601/nm.1918

*Neisseria elongata subsp. glycolytica*<sup>AL</sup> Henriksen and Holten 1976. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29315. N4Lid DOI: 10.1601/nm.1919

*Neisseria elongata subsp. nitroreducens*<sup>VP</sup> Grant et al. 1991. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49377. N4Lid DOI: 10.1601/nm.1920

*Neisseria flava*<sup>AL</sup> Bergey et al. 1923. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NRL 30,008. N4Lid DOI: 10.1601/nm.1921

*Neisseria flavescens*<sup>AL</sup> Branham 1930. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13120. High-quality 16S rRNA sequence S000414306 (RDP), L06168 (Genbank). N4Lid DOI: 10.1601/nm.1922

*Neisseria iguanae*<sup>VP</sup> Barrett et al. 1994. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51483. N4Lid DOI: 10.1601/nm.1923

*Neisseria lactamica*<sup>AL</sup> Hollis et al. 1969. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23970. High-quality 16S rRNA sequence S000021908 (RDP), AJ239286 (Genbank). GOLD ID: Gi00399. GCAT ID: 001256\_GCAT. Sequenced strain: ST-640 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.1924

*Neisseria macacae*<sup>VP</sup> Vedros et al. 1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33926. High-quality 16S rRNA sequence S000414307 (RDP), L06169 (Genbank). N4Lid DOI: 10.1601/nm.1925

*Neisseria meningitidis*<sup>AL</sup> (Albrecht and Ghon 1901) Murray 1929. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13077. High-quality 16S rRNA sequence S000528617 (RDP). GOLD ID: Gc00026. GCAT ID: 000584\_GCAT. Entrez genome id: 251. Sequenced strain: MC58 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 9 (GOLD) 3 (NCBI). N4Lid DOI: 10.1601/nm.1926

*Neisseria mucosa*<sup>AL</sup> Véron et al. 1959. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19696. N4Lid DOI: 10.1601/nm.1927

*Neisseria perflava*<sup>AL</sup> Bergey et al. 1923. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 10555. N4Lid DOI: 10.1601/nm.1929

*Neisseria polysaccharea*<sup>VP</sup> Riou and Guibourdenche 1987. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43768. High-quality 16S rRNA sequence S000414305 (RDP), L06167 (Genbank). N4Lid DOI: 10.1601/nm.1930

*Neisseria sicca*<sup>AL</sup> (von Lingelsheim 1908) Bergey et al. 1923. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29256. N4Lid DOI: 10.1601/nm.1931

*Neisseria subflava*<sup>AL</sup> (Flügge 1886) Trevisan 1889. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49275. N4Lid DOI: 10.1601/nm.1932

*Neisseria weaveri*<sup>VP</sup> Holmes et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51223. High-quality 16S rRNA sequence S000414374 (RDP), L10738 (Genbank). N4Lid DOI: 10.1601/nm.1933

*Neisseria zoodegmatidis*<sup>VP</sup> Vandamme et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29859. N4Lid DOI: 10.1601/nm.10235

**Genus *Alysiella***<sup>AL</sup> Langeron 1923. N4Lid DOI: 10.1601/nm.1934

*Alysiella filiformis*<sup>AL</sup> (Schmid 1922) Langeron 1923. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15532. High-quality 16S rRNA sequence S000429659 (RDP), AF487710 (Genbank). N4Lid DOI: 10.1601/nm.1935



*Alysiella crassa*<sup>VP</sup> (Schmid 1922) Xie and Yokota 2005. <== *Simonsiella crassa* (basonym).  
Synonym links through N4Lid: 10.1601/ex.1981. Source of type material recommended for DOE  
sponsored genome sequencing by the JGI: ATCC 15533. N4Lid 10.1601/nm.9266

† *Simonsiella crassa*<sup>AL</sup> Schmid 1922. ==> *Alysiella crassa* (new combination). Synonym links  
through N4Lid: 10.1601/ex.1981. Source of type material recommended for DOE sponsored  
genome sequencing by the JGI: ATCC 15533. N4Lid DOI: 10.1601/nm.1981

**Genus *Aquaspirillum***<sup>AL</sup> Hylemon et al. 1973. N4Lid DOI: 10.1601/nm.1936

"*Aquaspirillum serpens* subsp. *serpens*" Source of type material recommended for DOE  
sponsored genome sequencing by the JGI: ATCC 12638. N4Lid DOI: 10.1601/nm.1937

"*Aquaspirillum serpens* subsp. *bengal*" Source of type material recommended for DOE  
sponsored genome sequencing by the JGI: ATCC 27641. N4Lid DOI: 10.1601/nm.1938

*Aquaspirillum arcticum*<sup>VP</sup> Butler et al. 1990. Source of type material recommended for DOE  
sponsored genome sequencing by the JGI: ATCC 49402. N4Lid DOI: 10.1601/nm.1941

*Aquaspirillum itersonii* subsp. *itersonii*<sup>AL</sup> (Giesberger 1936) Hylemon et al. 1973. Source of type  
material recommended for DOE sponsored genome sequencing by the JGI: ATCC 12639. High-  
quality 16S rRNA sequence S000128881 (RDP), Z29620 (Genbank). N4Lid DOI:  
10.1601/nm.1948

*Aquaspirillum itersonii* subsp. *nipponicum*<sup>AL</sup> (Terasaki 1973) Terasaki 1979. Source of type  
material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33333. N4Lid  
DOI: 10.1601/nm.1949

*Aquaspirillum peregrinum* subsp. *integrum*<sup>AL</sup> (Terasaki 1973) Terasaki 1979. Source of type  
material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33334. N4Lid  
DOI: 10.1601/nm.1953

*Aquaspirillum peregrinum* subsp. *peregrinum*<sup>AL</sup> (Pretorius 1963) Hylemon et al. 1973. Source of  
type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15387.  
N4Lid DOI: 10.1601/nm.1952

*Aquaspirillum polymorphum*<sup>AL</sup> (Williams and Rittenberg 1957) Hylemon et al. 1973. Source of  
type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11332.  
N4Lid DOI: 10.1601/nm.1954

*Aquaspirillum putridiconchylum*<sup>AL</sup> (Terasaki 1961) Hylemon et al. 1973. Source of type  
material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15279. N4Lid  
DOI: 10.1601/nm.1956

*Aquaspirillum bengal*<sup>AL</sup> Kumar et al. 1974. ≈ *Aquaspirillum serpens* (earlier heterotypic  
synonym), links through 10.1601/nm.9063. Source of type material recommended for DOE  
sponsored genome sequencing by the JGI: ATCC 27641. N4Lid 10.1601/nm.9068

† *Aquaspirillum serpens*<sup>AL</sup> (Müller 1786) Hylemon et al. 1973. ≈ *Aquaspirillum bengal* (later  
heterotypic synonym), links through 10.1601/nm.9063. Source of type material recommended for  
DOE sponsored genome sequencing by the JGI: ATCC 12638. N4Lid 10.1601/nm.9063

**Genus *Aquitalea***<sup>VP</sup> Lau et al. 2006. N4Lid 10.1601/nm.9998

*Aquitalea magnusonii*<sup>VP</sup> Lau et al. 2006. Source of type material recommended for DOE  
sponsored genome sequencing by the JGI: ATCC BAA-1216. High-quality 16S rRNA sequence  
S000653121 (RDP), DQ018117 (Genbank). N4Lid 10.1601/nm.9997

**Genus *Bergeriella***<sup>VP</sup> Xie and Yokota 2005. N4Lid 10.1601/nm.9473

*Bergeriella denitrificans*<sup>VP</sup> (Berger 1962) Xie and Yokota 2005. <== *Neisseria denitrificans*  
(basonym). Synonym links through N4Lid: 10.1601/ex.1916. Source of type material  
recommended for DOE sponsored genome sequencing by the JGI: ATCC 14686. High-quality 16S  
rRNA sequence S000414311 (RDP), L06173 (Genbank). N4Lid 10.1601/nm.9260

† *Neisseria denitrificans*<sup>AL</sup> Berger 1962. ==> *Bergeriella denitrificans* (new combination).  
Synonym links through N4Lid: 10.1601/ex.1916. Source of type material recommended for DOE  
sponsored genome sequencing by the JGI: ATCC 14686. High-quality 16S rRNA sequence  
S000414311 (RDP), L06173 (Genbank). N4Lid DOI: 10.1601/nm.1916

**Genus *Chitinibacter***<sup>VP</sup> Chern et al. 2004. N4Lid DOI: 10.1601/nm.8537

- Chitinibacter tainanensis*<sup>VP</sup> Chern et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15459. High-quality 16S rRNA sequence S000441003 (RDP), AY264287 (Genbank). N4Lid DOI: 10.1601/nm.8538
- Genus *Chromobacterium***<sup>AL</sup> Bergonzini 1880. N4Lid DOI: 10.1601/nm.1958
- Chromobacterium violaceum*<sup>AL</sup> Bergonzini 1880. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 12472. High-quality 16S rRNA sequence S000436064 (RDP), M22510 (Genbank). GOLD ID: Gc00157. GCAT ID: 000453\_GCAT. Entrez genome id: 444. Sequenced strain: ATCC 12472 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.1959
- Genus *Conchiformibius***<sup>VP</sup> corrig. Xie and Yokota 2005. N4Lid 10.1601/nm.9476
- Conchiformibius steedae*<sup>VP</sup> corrig. (Kuhn and Gregory 1979) Xie and Yokota 2005. <== *Simonsiella steedae* (basonym). Synonym links through N4Lid: 10.1601/ex.1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27409. High-quality 16S rRNA sequence S000391667 (RDP), AF328153 (Genbank). N4Lid 10.1601/nm.9267
- † *Simonsiella steedae*<sup>AL</sup> Kuhn and Gregory 1979. ==> *Conchiformibius steedae* (new combination). Synonym links through N4Lid: 10.1601/ex.1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27409. High-quality 16S rRNA sequence S000391667 (RDP), AF328153 (Genbank). N4Lid DOI: 10.1601/nm.1983
- Conchiformibius kuhniae*<sup>VP</sup> corrig. Xie and Yokota 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29437. High-quality 16S rRNA sequence S000391664 (RDP), AF328150 (Genbank). N4Lid 10.1601/nm.9475
- Genus *Eikenella***<sup>AL</sup> Jackson and Goodman 1972. N4Lid DOI: 10.1601/nm.1961
- Eikenella corrodens*<sup>AL</sup> (Eiken 1958) Jackson and Goodman 1972. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23834. High-quality 16S rRNA sequence S000436066 (RDP), M22512 (Genbank). N4Lid DOI: 10.1601/nm.1962
- Genus *Formivibrio***<sup>VP</sup> Tanaka et al. 1991. N4Lid DOI: 10.1601/nm.1963
- Formivibrio citricus*<sup>VP</sup> Tanaka et al. 1991. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49791. High-quality 16S rRNA sequence S000020246 (RDP), Y17602 (Genbank). N4Lid DOI: 10.1601/nm.1964
- Genus *Iodobacter***<sup>VP</sup> Logan 1989. N4Lid DOI: 10.1601/nm.1965
- Iodobacter fluviatilis*<sup>VP</sup> corrig. (Moss et al. 1981) Logan 1989. <== *Chromobacterium fluviatile* (basonym). Synonym links through N4Lid: 10.1601/ex.1960. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33051. High-quality 16S rRNA sequence S000436065 (RDP), M22511 (Genbank). N4Lid DOI: 10.1601/nm.1966
- † *Chromobacterium fluviatile*<sup>VP</sup> Moss et al. 1981. ==> *Iodobacter fluviatilis* (new combination). Synonym links through N4Lid: 10.1601/ex.1960. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33051. High-quality 16S rRNA sequence S000436065 (RDP), M22511 (Genbank). N4Lid DOI: 10.1601/nm.1960
- Genus *Kingella***<sup>AL</sup> Henriksen and Bøvre 1976. N4Lid DOI: 10.1601/nm.1967
- Kingella kingae*<sup>AL</sup> (Henriksen and Bøvre 1968) Henriksen and Bøvre 1976. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23330. High-quality 16S rRNA sequence S000436071 (RDP), M22517 (Genbank). N4Lid DOI: 10.1601/nm.1968
- Kingella denitrificans*<sup>AL</sup> Snell and Lapage 1976. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33394. High-quality 16S rRNA sequence S000436070 (RDP), M22516 (Genbank). N4Lid DOI: 10.1601/nm.1969
- Kingella oralis*<sup>VP</sup> corrig. Dewhirst et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51147. High-quality 16S rRNA sequence S000414302 (RDP), L06164 (Genbank). N4Lid DOI: 10.1601/nm.1971
- Kingella potus*<sup>VP</sup> Lawson et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 49773. High-quality 16S rRNA sequence S000543982 (RDP), AJ629192 (Genbank). N4Lid 10.1601/nm.9652
- Genus *Laribacter***<sup>VP</sup> Yuen et al. 2002. N4Lid DOI: 10.1601/nm.1972

- Laribacter hongkongensis*<sup>VP</sup> Yuen et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14985. High-quality 16S rRNA sequence S000392882 (RDP), AF389085 (Genbank). N4Lid DOI: 10.1601/nm.1973
- Genus *Microvirgula***<sup>VP</sup> Patureau et al. 1998. N4Lid DOI: 10.1601/nm.1974
- Aquaspirillum dispar*<sup>AL</sup> Hylemon et al. 1973. ≈ *Microvirgula aerodenitrificans* (earlier heterotypic synonym), links through 10.1601/nm.1975. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27510. N4Lid DOI: 10.1601/nm.1944
- † *Microvirgula aerodenitrificans*<sup>VP</sup> Patureau et al. 1998. ≈ *Aquaspirillum dispar* (later heterotypic synonym), links through 10.1601/nm.1975. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15089. High-quality 16S rRNA sequence S000438740 (RDP), U89333 (Genbank). N4Lid DOI: 10.1601/nm.1975
- Genus *Morococcus***<sup>VP</sup> Long et al. 1981. N4Lid DOI: 10.1601/nm.1976
- Morococcus cerebrosus*<sup>VP</sup> Long et al. 1981. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33486. N4Lid DOI: 10.1601/nm.1977
- Genus *Prolinoborus***<sup>VP</sup> Pot et al. 1992. N4Lid DOI: 10.1601/nm.1978
- Prolinoborus fasciculus*<sup>VP</sup> (Strength et al. 1976) Pot et al. 1992. <== *Aquaspirillum fasciculus* (basonym). Synonym links through N4Lid: 10.1601/ex.1945. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27740. N4Lid DOI: 10.1601/nm.1979
- † *Aquaspirillum fasciculus*<sup>AL</sup> Strength et al. 1976. ==> *Prolinoborus fasciculus* (new combination). Synonym links through N4Lid: 10.1601/ex.1945. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27740. N4Lid DOI: 10.1601/nm.1945
- Genus *Silvimonas***<sup>VP</sup> Yang et al. 2005. N4Lid 10.1601/nm.9725
- Silvimonas terrae*<sup>VP</sup> Yang et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: KCTC 12358. High-quality 16S rRNA sequence S000439895 (RDP), AB194302 (Genbank). N4Lid 10.1601/nm.9724
- Genus *Simonsiella***<sup>AL</sup> Schmid 1922. N4Lid DOI: 10.1601/nm.1980
- Simonsiella muelleri*<sup>AL</sup> Schmid 1922. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29453. High-quality 16S rRNA sequence S000391661 (RDP), AF328147 (Genbank). N4Lid DOI: 10.1601/nm.1982
- Genus *Uruburuella***<sup>VP</sup> Vela et al. 2005. N4Lid 10.1601/nm.9353
- Uruburuella suis*<sup>VP</sup> Vela et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 47806. High-quality 16S rRNA sequence S000539445 (RDP), AJ586614 (Genbank). N4Lid 10.1601/nm.9352
- Genus *Vitreoscilla***<sup>AL</sup> Pringsheim 1949. N4Lid DOI: 10.1601/nm.1984
- Vitreoscilla beggiatoides*<sup>AL</sup> Pringsheim 1949. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43189. N4Lid DOI: 10.1601/nm.1985
- Vitreoscilla filiformis*<sup>VP</sup> (ex Pringsheim 1951) Strohl et al. 1986. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43190. N4Lid DOI: 10.1601/nm.1986
- Vitreoscilla stercoraria*<sup>AL</sup> Pringsheim 1951. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15218. High-quality 16S rRNA sequence S000414312 (RDP), L06174 (Genbank). N4Lid DOI: 10.1601/nm.1987
- Genus *Vogesella***<sup>VP</sup> Grimes et al. 1997. N4Lid DOI: 10.1601/nm.1988
- Vogesella indigofera*<sup>VP</sup> (Voges 1893) Grimes et al. 1997. <== *Pseudomonas indigofera* (basonym). Synonym links through N4Lid: 10.1601/ex.2623. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19706. High-quality 16S rRNA sequence S000437656 (RDP), U45995 (Genbank). N4Lid DOI: 10.1601/nm.1989
- † *Pseudomonas indigofera*<sup>AL</sup> (Voges 1893) Migula 1900. ==> *Vogesella indigofera* (new combination). Synonym links through N4Lid: 10.1601/ex.2623. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19706. High-quality 16S rRNA sequence S000437656 (RDP), U45995 (Genbank). N4Lid DOI: 10.1601/nm.2623

**Order Nitrosomonadales** <sup>VP</sup> Garrity et al 2006. N4Lid DOI: 10.1601/nm.1990

**Family Nitrosomonadaceae** <sup>VP</sup> Garrity et al 2006. N4Lid DOI: 10.1601/nm.1991

**Genus Nitrosomonas** <sup>AL</sup> Winogradsky 1892. GOLD ID: Gi00770. GCAT ID: 001267\_GCAT.

Genome sequence 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.1992

*Nitrosomonas europaea* <sup>AL</sup> Winogradsky 1892. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25978. High-quality 16S rRNA sequence S000016676 (RDP), M96399 (Genbank). GOLD ID: Gc00134. GCAT ID: 000476\_GCAT. Entrez genome id: 52. Sequenced strain: ATCC 19718 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.1993

*Nitrosomonas aestuarii* <sup>VP</sup> Koops et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: Nm 36. High-quality 16S rRNA sequence S000127319 (RDP), AJ298734 (Genbank). N4Lid DOI: 10.1601/nm.1994

*Nitrosomonas communis* <sup>VP</sup> Koops et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: Nm 2. High-quality 16S rRNA sequence S000130626 (RDP), AJ298732 (Genbank). N4Lid DOI: 10.1601/nm.1995

*Nitrosomonas eutropha* <sup>VP</sup> Koops et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: Nm 57. High-quality 16S rRNA sequence S000396471 (RDP), AY123795 (Genbank). GOLD ID: Gc00424. GCAT ID: 000186\_GCAT. Entrez genome id: 13913. Sequenced strain: C71 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.1996

*Nitrosomonas halophila* <sup>VP</sup> Koops et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: Nm 1. High-quality 16S rRNA sequence S000129430 (RDP), AJ298731 (Genbank). N4Lid DOI: 10.1601/nm.1997

*Nitrosomonas marina* <sup>VP</sup> Koops et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: Nm 22. High-quality 16S rRNA sequence S000008171 (RDP), Z46990 (Genbank). N4Lid DOI: 10.1601/nm.1998

"*Nitrosomonas mobilis*" Source of type material recommended for DOE sponsored genome sequencing by the JGI: Nc2. N4Lid DOI: 10.1601/nm.1999

*Nitrosomonas nitrosa* <sup>VP</sup> Koops et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: Nm 90. High-quality 16S rRNA sequence S000129171 (RDP), AJ298740 (Genbank). N4Lid DOI: 10.1601/nm.2000

*Nitrosomonas oligotropha* <sup>VP</sup> Koops et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: Nm 45. High-quality 16S rRNA sequence S000126701 (RDP), AJ298736 (Genbank). GOLD ID: Gi01025. GCAT ID: 001269\_GCAT. Sequenced strain: Nm45 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.2001

*Nitrosomonas ureae* <sup>VP</sup> Koops et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: Nm 10. High-quality 16S rRNA sequence S000127604 (RDP), AJ298730 (Genbank). N4Lid DOI: 10.1601/nm.2002

**Genus †*Nitrosolobus*** <sup>AL</sup> Watson et al. 1971. Unified with *Nitrosospira*, links through 10.1601/nm.2002. N4Lid DOI: 10.1601/nm.2003

**Genus *Nitrosospira*** <sup>AL</sup> Winogradsky and Winogradsky 1933. N4Lid DOI: 10.1601/nm.2005

*Nitrosospira briensis* <sup>AL</sup> Winogradsky and Winogradsky 1933. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.2006

*Nitrosospira multiformis* <sup>VP</sup> (Watson et al. 1971) Head et al. 1995. <== *Nitrosolobus multiformis* (basonym). Synonym links through N4Lid: 10.1601/ex.2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25196. High-quality 16S rRNA sequence S000414634 (RDP), L35509 (Genbank). GOLD ID: Gc00325. GCAT ID: 000285\_GCAT. Entrez genome id: 13912. Sequenced strain: ATCC 25196 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2007



† *Nitrosolobus multiformis*<sup>AL</sup> Watson et al. 1971. ==> *Nitrosospira multiformis* (new combination). Synonym links through N4Lid: 10.1601/ex.2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25196. High-quality 16S rRNA sequence S000414634 (RDP), L35509 (Genbank). GOLD ID: Gc00325. GCAT ID: 000285\_GCAT. Entrez genome id: 13912. Sequenced strain: ATCC 25196 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.2004

*Nitrosospira tenuis*<sup>VP</sup> (ex Harms et al. 1976) Head et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: Nv-1. High-quality 16S rRNA sequence S000127966 (RDP), AJ298746 (Genbank). N4Lid DOI: 10.1601/nm.2008

**Family Spirillaceae**<sup>AL</sup> Migula 1894. N4Lid DOI: 10.1601/nm.2009

**Genus Spirillum**<sup>AL</sup> Ehrenberg 1832. N4Lid DOI: 10.1601/nm.2010

*Spirillum volutans*<sup>AL</sup> Ehrenberg 1832. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19554. High-quality 16S rRNA sequence S000436225 (RDP), M34131 (Genbank). N4Lid DOI: 10.1601/nm.2011

**Family Gallionellaceae**<sup>AL</sup> Henrici and Johnson 1935. N4Lid DOI: 10.1601/nm.2012

**Genus Gallionella**<sup>AL</sup> Ehrenberg 1838. N4Lid DOI: 10.1601/nm.2013

*Gallionella ferruginea*<sup>AL</sup> Ehrenberg 1838. Source of type material recommended for DOE sponsored genome sequencing by the JGI: no culture isolated. High-quality 16S rRNA sequence S000013709 (RDP), L07897 (Genbank). N4Lid DOI: 10.1601/nm.2014

**Order Rhodocyclales**<sup>VP</sup> Garrity et al 2006. N4Lid DOI: 10.1601/nm.2015

**Family Rhodocyclaceae**<sup>VP</sup> Garrity et al 2006. N4Lid DOI: 10.1601/nm.2016

**Genus Rhodocyclus**<sup>AL</sup> Pfennig 1978. N4Lid DOI: 10.1601/nm.2017

*Rhodocyclus purpureus*<sup>AL</sup> Pfennig 1978. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 168. High-quality 16S rRNA sequence S000436226 (RDP), M34132 (Genbank). N4Lid DOI: 10.1601/nm.2018

*Rhodocyclus tenuis*<sup>VP</sup> (Pfennig 1969) Imhoff et al. 1984. <== *Rhodospirillum tenue* (basonym). Synonym links through N4Lid: 10.1601/ex.821. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25093. High-quality 16S rRNA sequence S000413541 (RDP), D16208 (Genbank). N4Lid DOI: 10.1601/nm.2020

† *Rhodospirillum tenue*<sup>AL</sup> Pfennig 1969. ==> *Rhodocyclus tenuis* (new combination). Synonym links through N4Lid: 10.1601/ex.821. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25093. High-quality 16S rRNA sequence S000413541 (RDP), D16208 (Genbank). N4Lid DOI: 10.1601/nm.821

**Genus Azoarcus**<sup>VP</sup> Reinhold-Hurek et al. 1993. GOLD ID: Gc00232. GCAT ID: 000378\_GCAT. Entrez genome id: 13242. Sequenced strain: EbN1 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.2021

*Azoarcus indigenus*<sup>VP</sup> Reinhold-Hurek et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51398. High-quality 16S rRNA sequence S000387090 (RDP), AF011345 (Genbank). N4Lid DOI: 10.1601/nm.2022

*Azoarcus anaerobius*<sup>VP</sup> Springer et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 12081. High-quality 16S rRNA sequence S000000311 (RDP), Y14701 (Genbank). N4Lid DOI: 10.1601/nm.2023

*Azoarcus buckelii*<sup>VP</sup> Mechichi et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14744. High-quality 16S rRNA sequence S000008376 (RDP), AJ315676 (Genbank). N4Lid DOI: 10.1601/nm.2024

*Azoarcus communis*<sup>VP</sup> Reinhold-Hurek et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51397. High-quality 16S rRNA sequence S000387088 (RDP), AF011343 (Genbank). N4Lid DOI: 10.1601/nm.2025

*Azoarcus evansii*<sup>VP</sup> Anders et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 6898. High-quality 16S rRNA sequence S000001335 (RDP), X77679 (Genbank). N4Lid DOI: 10.1601/nm.2026

- Azoarcus toluclasticus*<sup>VP</sup> Song et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700605. High-quality 16S rRNA sequence S000387200 (RDP), AF123077 (Genbank). N4Lid DOI: 10.1601/nm.2027
- Azoarcus tolulyticus*<sup>VP</sup> Zhou et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51758. High-quality 16S rRNA sequence S000414573 (RDP), L33692 (Genbank). N4Lid DOI: 10.1601/nm.2028
- Azoarcus tolivorans*<sup>VP</sup> Song et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700604. N4Lid DOI: 10.1601/nm.2029
- Genus *Azonexus***<sup>VP</sup> Reinhold-Hurek and Hurek 2000. N4Lid DOI: 10.1601/nm.2030
- Azonexus fungiphilus*<sup>VP</sup> Reinhold-Hurek and Hurek 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 19178. High-quality 16S rRNA sequence S000387095 (RDP), AF011350 (Genbank). N4Lid DOI: 10.1601/nm.2031
- Azonexus caeni*<sup>VP</sup> Quan et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17719. High-quality 16S rRNA sequence S000386316 (RDP), AB166882 (Genbank). N4Lid DOI: 10.1601/nm.10048
- Genus *Azospira***<sup>VP</sup> Reinhold-Hurek and Hurek 2000. ≈ *Azospira* (later heterotypic synonym), links through 10.1601./nm.2032. N4Lid DOI: 10.1601/nm.2032
- Azospira oryzae*<sup>VP</sup> Reinhold-Hurek and Hurek 2000. ≈ *Dechlorosoma suillum* (later heterotypic synonym), links through 10.1601./nm.2033. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 9096. High-quality 16S rRNA sequence S000387092 (RDP), AF011347 (Genbank). N4Lid DOI: 10.1601/nm.2033
- † *Dechlorosoma suillum*<sup>VP</sup> Achenbach et al. 2001. ≈ *Azospira oryzae* (earlier heterotypic synonym), links through 10.1601./nm.2033. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-33. N4Lid DOI: 10.1601/nm.2039
- Genus † *Dechlorosoma***<sup>VP</sup> Achenbach et al. 2001. ≈ *Azospira* (earlier heterotypic synonym), links through 10.1601./nm.2032. N4Lid DOI: 10.1601/nm.2038
- Genus *Azovibrio***<sup>VP</sup> Reinhold-Hurek and Hurek 2000. N4Lid DOI: 10.1601/nm.2034
- Azovibrio restrictus*<sup>VP</sup> Reinhold-Hurek and Hurek 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 9099. High-quality 16S rRNA sequence S000387091 (RDP), AF011346 (Genbank). N4Lid DOI: 10.1601/nm.2035
- Genus *Dechloromonas***<sup>VP</sup> Achenbach et al. 2001. N4Lid DOI: 10.1601/nm.2036
- Dechloromonas agitata*<sup>VP</sup> Achenbach et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700666. High-quality 16S rRNA sequence S000428030 (RDP), AF047462 (Genbank). N4Lid DOI: 10.1601/nm.2037
- Dechloromonas denitrificans*<sup>VP</sup> Horn et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-841. High-quality 16S rRNA sequence S000543875 (RDP), AJ318917 (Genbank). N4Lid 10.1601/nm.9448
- Dechloromonas hortensis*<sup>VP</sup> Wolterink et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-776. High-quality 16S rRNA sequence S000571898 (RDP), AY277621 (Genbank). N4Lid 10.1601/nm.9633
- Genus *Denitratisoma***<sup>VP</sup> Fahrbach et al. 2006. N4Lid DOI: 10.1601/nm.10158
- Denitratisoma oestradiolicum*<sup>VP</sup> Fahrbach et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16959. High-quality 16S rRNA sequence S000481203 (RDP), AY879297 (Genbank). N4Lid DOI: 10.1601/nm.10157
- Genus *Ferribacterium***<sup>VP</sup> Cummings et al. 2000. N4Lid DOI: 10.1601/nm.2040
- Ferribacterium limneticum*<sup>VP</sup> Cummings et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700589. High-quality 16S rRNA sequence S000018565 (RDP), Y17060 (Genbank). N4Lid DOI: 10.1601/nm.2041
- Genus *Propionivibrio***<sup>VP</sup> Tanaka et al. 1991. ≈ *Propionivibrio* (later heterotypic synonym), links through 10.1601./nm.2044. N4Lid DOI: 10.1601/nm.2044
- Propionivibrio dicarboxylicus*<sup>VP</sup> Tanaka et al. 1991. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 5885. High-quality 16S rRNA sequence S000019319 (RDP), Y17601 (Genbank). N4Lid DOI: 10.1601/nm.2045

- Propionivibrio limicola*<sup>VP</sup> Brune et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-290. High-quality 16S rRNA sequence S000002066 (RDP), AJ307983 (Genbank). N4Lid DOI: 10.1601/nm.2046
- Propionivibrio pelophilus*<sup>VP</sup> (Meijer et al. 1999) Brune et al. 2002. <== *Propionibacter pelophilus* (basonym). Synonym links through N4Lid: 10.1601/ex.2043. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 12018. High-quality 16S rRNA sequence S000387150 (RDP), AF016690 (Genbank). N4Lid DOI: 10.1601/nm.2047
- † *Propionibacter pelophilus*<sup>VP</sup> Meijer et al. 1999. ==> *Propionivibrio pelophilus* (new combination). Synonym links through N4Lid: 10.1601/ex.2043. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 12018. High-quality 16S rRNA sequence S000387150 (RDP), AF016690 (Genbank). N4Lid DOI: 10.1601/nm.2043
- Genus** † *Propionibacter*<sup>VP</sup> Meijer et al. 1999. ≈ *Propionivibrio* (earlier heterotypic synonym), links through 10.1601./nm.2044. N4Lid DOI: 10.1601/nm.2042
- Genus** *Quatrionicoccus*<sup>VP</sup> Maszenan et al. 2002. N4Lid DOI: 10.1601/nm.2048
- Quatrionicoccus australiensis*<sup>VP</sup> Maszenan et al. 2002. Illegitimate name. *Quadrilococcus australiensis* (new combination). Synonym links through N4Lid: 10.1601/nm.2049. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 107055. High-quality 16S rRNA sequence S000434377 (RDP), AY007722 (Genbank). N4Lid DOI: 10.1601/nm.2049
- Genus** *Shinella*<sup>VP</sup> An et al. 2006. N4Lid 10.1601/nm.9899
- Shinella granuli*<sup>VP</sup> An et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 13254. High-quality 16S rRNA sequence S000528093 (RDP), AY995149 (Genbank). N4Lid 10.1601/nm.9898
- Crabtreeella saccharophila*<sup>VP</sup> Xie and Yokota 2006. == *Shinella zoogloeoides* (earlier homotypic synonym), links through 10.1601./ex.9900. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19623. High-quality 16S rRNA sequence S000652696 (RDP), AB238789 (Genbank). N4Lid 10.1601/nm.9947
- Genus** † *Crabtreeella*<sup>VP</sup> Xie and Yokota 2006. ≈ *Shinella* (earlier heterotypic synonym), links through 10.1601./nm.9899. N4Lid 10.1601/nm.9948
- Shinella zoogloeoides*<sup>VP</sup> An et al. 2006. == *Crabtreeella saccharophila* (later homotypic synonym), links through 10.1601./ex.9900. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19623. High-quality 16S rRNA sequence S000652696 (RDP), AB238789 (Genbank). N4Lid 10.1601/nm.9900
- Genus** *Sterolibacterium*<sup>VP</sup> Tarlera and Denner 2003. N4Lid DOI: 10.1601/nm.2050
- Sterolibacterium denitrificans*<sup>VP</sup> Tarlera and Denner 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-354. High-quality 16S rRNA sequence S000137022 (RDP), AJ306683 (Genbank). N4Lid DOI: 10.1601/nm.2051
- Genus** *Thauera*<sup>VP</sup> Macy et al. 1993. GOLD ID: Gi01570. GCAT ID: 001599\_GCAT. Sequenced strain: MZ1T is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.2052
- Thauera selenatis*<sup>VP</sup> Macy et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 55363. High-quality 16S rRNA sequence S000005163 (RDP), Y17591 (Genbank). N4Lid DOI: 10.1601/nm.2053
- Thauera aminoaromatica*<sup>VP</sup> Mechichi et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14742. High-quality 16S rRNA sequence S000016269 (RDP), AJ315677 (Genbank). N4Lid DOI: 10.1601/nm.2054
- Thauera aromatica*<sup>VP</sup> Anders et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 6984. High-quality 16S rRNA sequence S000000824 (RDP), X77118 (Genbank). N4Lid DOI: 10.1601/nm.2055
- Thauera chlorobenzoica*<sup>VP</sup> Song et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700723. High-quality 16S rRNA sequence S000387203 (RDP), AF123264 (Genbank). N4Lid DOI: 10.1601/nm.2056
- Thauera linaloolentis*<sup>VP</sup> Foss and Harder 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 12138. High-quality 16S rRNA sequence S000010085 (RDP), AJ005816 (Genbank). N4Lid DOI: 10.1601/nm.2057

*Thauera mechernichensis*<sup>VP</sup> Scholten et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700857. High-quality 16S rRNA sequence S000009314 (RDP), Y17590 (Genbank). N4Lid DOI: 10.1601/nm.2058

*Thauera phenylacetica*<sup>VP</sup> Mechichi et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14743. High-quality 16S rRNA sequence S000005734 (RDP), AJ315678 (Genbank). N4Lid DOI: 10.1601/nm.2059

*Thauera terpenica*<sup>VP</sup> Foss and Harder 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 12139. High-quality 16S rRNA sequence S000009714 (RDP), AJ005817 (Genbank). N4Lid DOI: 10.1601/nm.2060

**Genus *Zoogloea***<sup>AL</sup> Itzigsohn 1868. N4Lid DOI: 10.1601/nm.2061

*Zoogloea ramigera*<sup>AL</sup> Itzigsohn 1868. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19544. High-quality 16S rRNA sequence S000015049 (RDP), X74913 (Genbank). N4Lid DOI: 10.1601/nm.2062

*Zoogloea oryzae*<sup>VP</sup> Xie and Yokota 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: IAM 15218. High-quality 16S rRNA sequence S000650566 (RDP), AB201043 (Genbank). N4Lid 10.1601/nm.9946

*Zoogloea resiniphila*<sup>VP</sup> Mohn et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700687. High-quality 16S rRNA sequence S000260089 (RDP), AJ011506 (Genbank). N4Lid DOI: 10.1601/nm.2063

**Order "*Procabacteriales*"** N4Lid DOI: 10.1601/nm.2064

**Family "*Procabacteriaceae*"** N4Lid DOI: 10.1601/nm.2065

**Genus "*Procabacter*"** N4Lid DOI: 10.1601/nm.2066

*Procabacter acanthamoebae*<sup>VP</sup> Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. High-quality 16S rRNA sequence S000388686 (RDP), AF177427 (Genbank). N4Lid DOI: 10.1601/nm.2067