

Taxonomic Outline of the Bacteria and Archaea, Release 7.7 March 6, 2007.
Part 11 – The Bacteria: Phyla “Planctomycetes”, “Chlamydiae”,
“Spirochaetes”, “Fibrobacteres”, “Acidobacteria”, “Bacteroidetes”,
“Fusobacteria”, “Verrucomicrobia”, “Dictyoglomi”, “Gemmatomonadetes”,
and “Lentisphaerae”

George M. Garrity, Timothy G. Lilburn, James R. Cole,
Scott H. Harrison, Jean Euzéby, and Brian J. Tindall

Phylum "*Planctomycetes*" N4Lid DOI: 10.1601/nm.7744

Class "*Planctomycetacia*" N4Lid DOI: 10.1601/nm.7745

Order *Planctomycetales*^{VP} Schlesner and Stackebrandt 1987. N4Lid DOI: 10.1601/nm.7746

Family *Planctomycetaceae*^{VP} Schlesner and Stackebrandt 1987. N4Lid DOI: 10.1601/nm.7747

Genus *Planctomyces*^{AL} Gimesi 1924. N4Lid DOI: 10.1601/nm.7748

Planctomyces bekefi^{AL} Gimesi 1924. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.7749

Planctomyces brasiliensis^{VP} Schlesner 1990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49424. High-quality 16S rRNA sequence S000005131 (RDP), AJ231190 (Genbank). N4Lid DOI: 10.1601/nm.7750

Planctomyces guttaeformis^{VP} (ex Hortobágyi 1965) Starr and Schmidt 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.7751

Planctomyces limnophilus^{VP} Hirsch and Müller 1986. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43296. High-quality 16S rRNA sequence S000013732 (RDP), X62911 (Genbank). N4Lid DOI: 10.1601/nm.7752

Planctomyces maris^{VP} (ex Bauld and Staley 1976) Bauld and Staley 1980. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29201. High-quality 16S rRNA sequence S000008536 (RDP), AJ231184 (Genbank). GOLD ID: Gi01149. GCAT ID: 001363_GCAT. Entrez genome id: 15662. Sequenced strain: DSM 8797 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.7753

Planctomyces stranskae^{VP} (ex Wawrik 1952) Starr and Schmidt 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.7754

Genus *Blastopirellula*^{VP} Schlesner et al. 2004. N4Lid DOI: 10.1601/nm.8514

Blastopirellula marina^{VP} (Schlesner 1987) Schlesner et al. 2004. <== *Pirella marina* (basonym). Synonym links through N4Lid: 10.1601/ex.7761. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49069. High-quality 16S rRNA sequence S000016660 (RDP), X62912 (Genbank). GOLD ID: Gi00835. GCAT ID: 000780_GCAT. Entrez genome id: 13488. Sequenced strain: ATCC 49069 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.8515

† *Pirellula marina*^{VP} (Schlesner 1987) Schlesner and Hirsch 1987. <== *Pirella marina* (basonym). *Blastopirellula marina* (new combination). Synonym links through N4Lid: 10.1601/ex.7761. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49069. High-quality 16S rRNA sequence S000016660 (RDP), X62912 (Genbank). GOLD ID: Gi00835. GCAT ID: 000780_GCAT. Entrez genome id: 13488. Sequenced strain: ATCC 49069 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.7761

† *Pirella marina*^{VP} Schlesner 1987. ==> *Pirellula marina* (new combination). Synonym links through N4Lid: 10.1601/ex.7761. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49069. High-quality 16S rRNA sequence S000016660 (RDP), X62912 (Genbank). GOLD ID: Gi00835. GCAT ID: 000780_GCAT. Entrez genome id: 13488. Sequenced strain: ATCC 49069 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid 10.1601/nm.9144

Genus *Gemmata*^{VP} Franzmann and Skerman 1985. GOLD ID: Gi00271. GCAT ID: 001098_GCAT. Entrez genome id: 0. Sequenced strain: Wa1-1 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.7755

Gemmata obscuriglobus^{VP} Franzmann and Skerman 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 5831. High-quality 16S rRNA sequence S000014262 (RDP), AJ231191 (Genbank). GOLD ID: Gi00270. GCAT ID: 001099_GCAT. Entrez genome id: 338. Sequenced strain: UQM 2246 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.7756

Genus *Isosphaera*^{VP} Giovannoni et al. 1995. N4Lid DOI: 10.1601/nm.7757

Isosphaera pallida^{VP} (ex Woronichin 1927) Giovannoni et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43644. High-quality 16S rRNA sequence S000011962 (RDP), AJ231195 (Genbank). N4Lid DOI: 10.1601/nm.7758

Genus *Pirellula*^{VP} Schlesner and Hirsch 1987. N4Lid DOI: 10.1601/nm.7759

Pirellula staley^{VP} (Schlesner and Hirsch 1984) Schlesner and Hirsch 1987. <== *Pirella staley* (basonym). Synonym links through N4Lid: 10.1601/ex.7760. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27377. High-quality 16S rRNA sequence S000436220 (RDP), M34126 (Genbank). N4Lid DOI: 10.1601/nm.7760

† *Pirella staley*^{VP} Schlesner and Hirsch 1984. ==> *Pirellula staley* (new combination). Synonym links through N4Lid: 10.1601/ex.7760. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27377. High-quality 16S rRNA sequence S000436220 (RDP), M34126 (Genbank). N4Lid 10.1601/nm.9123

Genus † *Pirella*^{VP} Schlesner and Hirsch 1984. Illegitimate name. DOI: 10.1601/nm.9122

Genus *Rhodopirellula*^{VP} Schlesner et al. 2004. N4Lid 10.1601/nm.8812

Rhodopirellula baltica^{VP} Schlesner et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 10527. GOLD ID: Gc00141. GCAT ID: 000022_GCAT. Entrez genome id: 413. Sequenced strain: SH 1 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid 10.1601/nm.8813

Phylum "*Chlamydiae*" N4Lid DOI: 10.1601/nm.7762

Class "*Chlamydiae*" N4Lid DOI: 10.1601/nm.7763

Order *Chlamydiales*^{AL} Storz and Page 1971. N4Lid DOI: 10.1601/nm.7764

Family *Chlamydiaceae*^{AL} Rake 1957. N4Lid DOI: 10.1601/nm.7765

Genus *Chlamydia*^{AL} Jones et al. 1945. N4Lid DOI: 10.1601/nm.7766

Chlamydia trachomatis^{AL} (Busacca 1935) Rake 1957. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC VR-571B. High-quality 16S rRNA sequence S000414224 (RDP), D89067 (Genbank). GOLD ID: Gc00017. GCAT ID: 000593_GCAT. Entrez genome id: 45. Sequenced strain: D/UW-3/CX (serovar D) is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 11 (GOLD) 2 (NCBI). N4Lid DOI: 10.1601/nm.7767

Chlamydia muridarum^{VP} Everett et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC VR-123. High-quality 16S rRNA sequence S000435880 (RDP), D85718 (Genbank). GOLD ID: Gc00028. GCAT ID: 000582_GCAT. Entrez genome id: 229. Sequenced strain: MoPn / Nigg 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.7768

Chlamydia suis^{VP} Everett et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC VR-1474. High-quality 16S rRNA sequence S000438404 (RDP), U73110 (Genbank). N4Lid DOI: 10.1601/nm.7772

Genus *Chlamydophila*^{VP} Everett et al. 1999. N4Lid DOI: 10.1601/nm.7773

Chlamydophila psittaci^{VP} (Lillie 1930) Everett et al. 1999. <== *Chlamydia psittaci* (basonym). Synonym links through N4Lid: 10.1601/ex.7771. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC VR-125. High-quality 16S rRNA sequence S000090246 (RDP), AB001778 (Genbank). GOLD ID: Gi00143. GCAT ID: 000946_GCAT.

Entrez genome id: 12519. Sequenced strain: 6BC is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.7774

† *Chlamydia psittaci*^{AL} (Lillie 1930) Page 1968. ==> *Chlamydophila psittaci* (new combination). Synonym links through N4Lid: 10.1601/ex.7771. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC VR-125. High-quality 16S rRNA sequence S000090246 (RDP), AB001778 (Genbank). GOLD ID: Gi00143. GCAT ID: 000946_GCAT. Entrez genome id: 12519. Sequenced strain: 6BC is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.7771

Chlamydophila abortus^{VP} Everett et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC VR-656. High-quality 16S rRNA sequence S000414096 (RDP), D85709 (Genbank). GOLD ID: Gc00262. GCAT ID: 000347_GCAT. Entrez genome id: 355. Sequenced strain: S26/3 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.7775

Chlamydophila caviae^{VP} Everett et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC VR-813. High-quality 16S rRNA sequence S000435878 (RDP), D85708 (Genbank). GOLD ID: Gc00129. GCAT ID: 000481_GCAT. Entrez genome id: 228. Sequenced strain: GPIC 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.7776

Chlamydophila felis^{VP} Everett et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC VR-120. High-quality 16S rRNA sequence S000435877 (RDP), D85701 (Genbank). GOLD ID: Gc00357. GCAT ID: 000253_GCAT. Entrez genome id: 370. Sequenced strain: Fe/C-56 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.7777

Chlamydophila pecorum^{VP} (Fukushi and Hirai 1992) Everett et al. 1999. <== *Chlamydia pecorum* (basonym). Synonym links through N4Lid: 10.1601/ex.7769. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC VR-628. High-quality 16S rRNA sequence S000414201 (RDP), D88317 (Genbank). GOLD ID: Gi01010. GCAT ID: 000949_GCAT. Sequenced strain: E58 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 0 (NCBI). N4Lid DOI: 10.1601/nm.7778

† *Chlamydia pecorum*^{VP} Fukushi and Hirai 1992. ==> *Chlamydophila pecorum* (new combination). Synonym links through N4Lid: 10.1601/ex.7769. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC VR-628. High-quality 16S rRNA sequence S000414201 (RDP), D88317 (Genbank). GOLD ID: Gi01010. GCAT ID: 000949_GCAT. Sequenced strain: E58 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 0 (NCBI). N4Lid DOI: 10.1601/nm.7769

Chlamydophila pneumoniae^{VP} (Grayston et al. 1989) Everett et al. 1999. <== *Chlamydia pneumoniae* (basonym). Synonym links through N4Lid: 10.1601/ex.7770. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC VR-2282. High-quality 16S rRNA sequence S000017485 (RDP), Z49873 (Genbank). GOLD ID: Gc00021. GCAT ID: 000589_GCAT. Entrez genome id: 248. Sequenced strain: TW-183 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 4 (GOLD) 5 (NCBI). N4Lid DOI: 10.1601/nm.7779

† *Chlamydia pneumoniae*^{VP} Grayston et al. 1989. ==> *Chlamydophila pneumoniae* (new combination). Synonym links through N4Lid: 10.1601/ex.7770. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC VR-2282. High-quality 16S rRNA sequence S000017485 (RDP), Z49873 (Genbank). GOLD ID: Gc00027. GCAT ID: 000583_GCAT. Entrez genome id: 247. Sequenced strain: TW-183 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 3 (GOLD) 3 (NCBI). N4Lid DOI: 10.1601/nm.7770

Family Parachlamydiaceae^{VP} Everett et al 1999. N4Lid DOI: 10.1601/nm.7780

Genus Parachlamydia^{VP} Everett et al. 1999. GOLD ID: Gc00185. GCAT ID: 000425_GCAT. Entrez genome id: 10700. Sequenced strain: UWE25 is from a non-type strain. Genome

sequencing is completed. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.7781

Parachlamydia acanthamoebae^{VP} Everett et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC VR-1476. High-quality 16S rRNA sequence S000017487 (RDP), Y07556 (Genbank). N4Lid DOI: 10.1601/nm.7782

Genus *Neochlamydia*^{VP} Horn et al. 2001. N4Lid DOI: 10.1601/nm.7783

Neochlamydia hartmannellae^{VP} Horn et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 50802. High-quality 16S rRNA sequence S000388671 (RDP), AF177275 (Genbank). N4Lid DOI: 10.1601/nm.7784

Family *Simkaniaceae*^{VP} Everett et al 1999. N4Lid DOI: 10.1601/nm.7785

Genus *Simkania*^{VP} Everett et al. 1999. N4Lid DOI: 10.1601/nm.7786

Simkania negevensis^{VP} Everett et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC VR-1471. High-quality 16S rRNA sequence S000438346 (RDP), U68460 (Genbank). GOLD ID: Gi00771. GCAT ID: 001503_GCAT. Entrez genome id: 12528. Sequenced strain: Z is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.7787

Genus *Rhabdochlamydia*^C N4Lid DOI: 10.1601/nm.7788

Rhabdochlamydia porcellionis^C Kostanjsek 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 S000403035 (RDP), AY223862 (Genbank). N4Lid DOI: 10.1601/nm.7789

Family *Waddliaceae*^{VP} Rurangirwa et al 1999. N4Lid DOI: 10.1601/nm.7790

Genus *Waddlia*^{VP} Rurangirwa et al. 1999. N4Lid DOI: 10.1601/nm.7791

Waddlia chondrophila^{VP} Rurangirwa et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC VR-1470. High-quality 16S rRNA sequence S000428010 (RDP), AF042496 (Genbank). N4Lid DOI: 10.1601/nm.7792

Phylum "*Spirochaetes*" N4Lid DOI: 10.1601/nm.7793

Class "*Spirochaetes*" N4Lid DOI: 10.1601/nm.7794

Order *Spirochaetales*^{AL} Buchanan 1917. N4Lid DOI: 10.1601/nm.7795

Family *Spirochaetaceae*^{AL} Swellengrebel 1907. N4Lid DOI: 10.1601/nm.7796

Genus *Spirochaeta*^{AL} Ehrenberg 1835. N4Lid DOI: 10.1601/nm.7797

Spirochaeta stenostrepta^{AL} Zuelzer 1912. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25083. High-quality 16S rRNA sequence S000436875 (RDP), M88724 (Genbank). N4Lid DOI: 10.1601/nm.7798

Spirochaeta africana^{VP} Zhilina et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700263. High-quality 16S rRNA sequence S000003565 (RDP), X93928 (Genbank). N4Lid DOI: 10.1601/nm.7799

Spirochaeta alkalica^{VP} Zhilina et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700262. High-quality 16S rRNA sequence S000015026 (RDP), X93927 (Genbank). N4Lid DOI: 10.1601/nm.7800

Spirochaeta americana^{VP} Hoover et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-392. High-quality 16S rRNA sequence S000392573 (RDP), AF373921 (Genbank). N4Lid DOI: 10.1601/nm.7801

Spirochaeta asiatica^{VP} Zhilina et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700261. High-quality 16S rRNA sequence S000012012 (RDP), X93926 (Genbank). N4Lid DOI: 10.1601/nm.7802

Spirochaeta aurantia subsp. aurantia^{VP} (ex Vinzent 1926) Canale-Parola 1980. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25082. High-quality 16S rRNA sequence S000436332 (RDP), M57740 (Genbank). N4Lid DOI: 10.1601/nm.7803

Spirochaeta aurantia subsp. stricta^{VP} Canale-Parola 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: J4T. N4Lid DOI: 10.1601/nm.7804

- Spirochaeta bajacaliforniensis*^{VP} Fracek and Stolz 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35968. High-quality 16S rRNA sequence S000324036 (RDP), AJ698859 (Genbank). N4Lid 10.1601/nm.8854
- Spirochaeta caldaria*^{VP} Pohlschroeder et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51460. N4Lid DOI: 10.1601/nm.7805
- Spirochaeta coccoides*^{VP} Dröge et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1237. High-quality 16S rRNA sequence S000352703 (RDP), AJ698092 (Genbank). N4Lid DOI: 10.1601/nm.10201
- Spirochaeta halophila*^{AL} Greenberg and Canale-Parola 1977. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29478. High-quality 16S rRNA sequence S000436873 (RDP), M88722 (Genbank). N4Lid DOI: 10.1601/nm.7806
- Spirochaeta isovalerica*^{VP} Harwood and Canale-Parola 1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33939. High-quality 16S rRNA sequence S000436871 (RDP), M88720 (Genbank). N4Lid DOI: 10.1601/nm.7807
- Spirochaeta litoralis*^{VP} (ex Hespell and Canale-Parola 1970) Canale-Parola 1980. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27000. High-quality 16S rRNA sequence S000436874 (RDP), M88723 (Genbank). N4Lid DOI: 10.1601/nm.7808
- Spirochaeta plicatilis*^{AL} Ehrenberg 1835. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.7809
- Spirochaeta smaragdinae*^{VP} Magot et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 11293. High-quality 16S rRNA sequence S000438494 (RDP), U80597 (Genbank). N4Lid DOI: 10.1601/nm.7810
- Spirochaeta thermophila*^{VP} Aksenova et al. 1992. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700085. N4Lid DOI: 10.1601/nm.7811
- Spirochaeta zuelzeriae*^{VP} (ex Veldkamp 1960) Canale-Parola 1980. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19044. High-quality 16S rRNA sequence S000436876 (RDP), M88725 (Genbank). N4Lid DOI: 10.1601/nm.7812
- Genus *Borrelia***^{AL} Swellengrebel 1907. N4Lid DOI: 10.1601/nm.7813
- Borrelia anserina*^{AL} (Sakharoff 1891) Bergey et al. 1925. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.7814
- Borrelia afzelii*^{VP} Canica et al. 1994. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51567. High-quality 16S rRNA sequence U000287131 (RDP). GOLD ID: Gc00408. GCAT ID: 000202_GCAT. Entrez genome id: 17057. Sequenced strain: PKo 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.7815
- Borrelia baltazardii*^{VP} corrig. (ex Karimi et al. 1979) Karimi et al. 1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: Bx. N4Lid DOI: 10.1601/nm.7816
- Borrelia brasiliensis*^{AL} Davis 1952. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.7817
- Borrelia burgdorferi*^{VP} Johnson et al. 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35210. High-quality 16S rRNA sequence S000436531 (RDP), M59293 (Genbank). GOLD ID: Gc00012. GCAT ID: 000598_GCAT. Entrez genome id: 3. Sequenced strain: ATCC 35210 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 3 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.7818
- Borrelia caucasica*^{AL} (Kandelaki 1945) Davis 1957. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.7819
- Borrelia coriaceae*^{VP} Johnson et al. 1987. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43381. High-quality 16S rRNA sequence S000437611 (RDP), U42286 (Genbank). N4Lid DOI: 10.1601/nm.7820

- Borrelia crociduræ*^{AL} (Leger 1917) Davis 1957. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.7821
- Borrelia dugesii*^{AL} (Mazzotti 1949) Davis 1957. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.7822
- Borrelia duttonii*^{AL} (Novy and Knapp 1906) Bergey et al. 1925. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. GOLD ID: Gi01736. GCAT ID: 000682_GCAT. Entrez genome id: 18231. Sequenced strain: Ly 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.7823
- Borrelia garinii*^{VP} Baranton et al. 1992. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51383. High-quality 16S rRNA sequence S000528736 (RDP). GOLD ID: Gc00211. GCAT ID: 000399_GCAT. Entrez genome id: 12554. Sequenced strain: PBi, OspA 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.7824
- Borrelia graingeri*^{AL} (Heisch 1953) Davis 1957. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.7825
- Borrelia harveyi*^{AL} (Garnham 1947) Davis 1948. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.7826
- Borrelia hermsii*^{AL} (Davis 1942) Steinhaus 1946. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. GOLD ID: Gi00085. GCAT ID: 000785_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.7827
- Borrelia hispanica*^{AL} (de Buen 1926) Steinhaus 1946. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.7828
- Borrelia japonica*^{VP} Kawabata et al. 1994. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51557. High-quality 16S rRNA sequence S000435936 (RDP), L40597 (Genbank). N4Lid DOI: 10.1601/nm.7829
- Borrelia latyschewii*^{AL} (Sofiev 1941) Davis 1948. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.7830
- Borrelia lusitaniae*^{VP} Le Fleche et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 105366. N4Lid DOI: 10.1601/nm.7831
- Borrelia mazzottii*^{AL} Davis 1956. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.7832
- Borrelia miyamotoi*^{VP} Fukunaga et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 9579. High-quality 16S rRNA sequence S000413817 (RDP), D45192 (Genbank). N4Lid DOI: 10.1601/nm.7833
- Borrelia parkeri*^{AL} (Davis 1942) Steinhaus 1946. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.7834
- Borrelia persica*^{AL} (Dschunkowsky 1913) Steinhaus 1946. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.7835
- Borrelia recurrentis*^{AL} (Lebert 1874) Bergey et al. 1925. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. GOLD ID: Gi01737. GCAT ID: 000683_GCAT. Entrez genome id: 18233. Sequenced strain: A1 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.7836

- Borrelia sinica*^{VP} Masuzawa et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 10505. High-quality 16S rRNA sequence S000382581 (RDP), AB022101 (Genbank). N4Lid DOI: 10.1601/nm.7837
- Borrelia spielmanii*^{VP} Richter et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16813. High-quality 16S rRNA sequence S000645415 (RDP), DQ133523 (Genbank). N4Lid DOI: 10.1601/nm.10012
- Borrelia tanukii*^{VP} Fukunaga et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-127. High-quality 16S rRNA sequence S000413905 (RDP), D67023 (Genbank). N4Lid DOI: 10.1601/nm.7838
- Borrelia theileri*^{AL} (Laveran 1903) Bergey et al. 1925. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.7839
- Borrelia tillae*^{AL} Zumpt and Organ 1961. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.7840
- Borrelia turdi*^{VP} corrig. Fukunaga et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-126. High-quality 16S rRNA sequence S000435824 (RDP), D67022 (Genbank). N4Lid DOI: 10.1601/nm.7841
- Borrelia turcica*^{VP} Güner et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16138. High-quality 16S rRNA sequence S000415046 (RDP), AB111849 (Genbank). N4Lid DOI: 10.1601/nm.8516
- Borrelia turicatae*^{AL} (Brumpt 1933) Steinhaus 1946. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. High-quality 16S rRNA sequence S000610971 (RDP). GOLD ID: Gi01738. GCAT ID: 000684_GCAT. Entrez genome id: 13597. Genome sequence is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.7842
- Borrelia valaisiana*^{VP} Wang et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 105367. N4Lid DOI: 10.1601/nm.7843
- Borrelia venezuelensis*^{AL} (Brumpt 1921) Brumpt 1922. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.7844
- Genus *Brevinema***^{VP} Defosse et al. 1995. N4Lid DOI: 10.1601/nm.7845
- Brevinema andersonii*^{VP} Defosse et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43811. N4Lid DOI: 10.1601/nm.7846
- Genus *Clevelandina***^{VP} Bermudes et al. 1988. N4Lid DOI: 10.1601/nm.7847
- Clevelandina reticulitermitidis*^{VP} Bermudes et al. 1988. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.7848
- Genus *Cristispira***^{AL} Gross 1910. N4Lid DOI: 10.1601/nm.7849
- Cristispira pectinis*^{AL} Gross 1910. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.7850
- Genus *Diplocalyx***^{VP} (ex Gharagozlou 1968) Bermudes et al. 1988. N4Lid DOI: 10.1601/nm.7851
- Diplocalyx calotermiitidis*^{VP} (ex Gharagozlou 1968) Bermudes et al. 1988. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.7852
- Genus *Hollandina***^{VP} (ex To et al. 1978) Bermudes et al. 1988. N4Lid DOI: 10.1601/nm.7853
- Hollandina pterotermiitidis*^{VP} (ex To et al. 1978) Bermudes et al. 1988. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.7854
- Genus *Pillotina***^{VP} (ex Hollande and Gharagozlou 1967) Bermudes et al. 1988. N4Lid DOI: 10.1601/nm.7855
- Pillotina calotermiitidis*^{VP} (ex Hollande and Gharagozlou 1967) Bermudes et al. 1988. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.7856

Genus *Treponema*^{AL} Schaudinn 1905. N4Lid DOI: 10.1601/nm.7857

Treponema pallidum^{AL} (Schaudinn and Hoffmann 1905) Schaudinn 1905. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. High-quality 16S rRNA sequence S000569972 (RDP). GOLD ID: Gc00016. GCAT ID: 000594_GCAT. Entrez genome id: 5. Sequenced strain: Nichols is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 3 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.7858

Treponema amylovorum^{VP} Wyss et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700288. High-quality 16S rRNA sequence S000001187 (RDP), Y09959 (Genbank). N4Lid DOI: 10.1601/nm.7859

Treponema azotonutricium^{VP} Graber et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-888. High-quality 16S rRNA sequence S000391468 (RDP), AF320287 (Genbank). GOLD ID: Gi01249. GCAT ID: 001617_GCAT. 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.8893

Treponema berlinense^{VP} Nordhoff et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-909. High-quality 16S rRNA sequence S000571802 (RDP), AY230217 (Genbank). N4Lid 10.1601/nm.9563

Treponema brennaborensis^{VP} Schrank et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 12168. High-quality 16S rRNA sequence S000018045 (RDP), Y16568 (Genbank). N4Lid DOI: 10.1601/nm.7860

Treponema bryantii^{VP} Stanton and Canale-Parola 1980. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33254. High-quality 16S rRNA sequence S000436329 (RDP), M57737 (Genbank). N4Lid DOI: 10.1601/nm.7861

Treponema denticola^{VP} (ex Flügge 1886) Chan et al. 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35405. High-quality 16S rRNA sequence S000387944 (RDP), AF139204 (Genbank). GOLD ID: Gc00174. GCAT ID: 000436_GCAT. Entrez genome id: 4. Sequenced strain: DSM 14222 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.7862

Treponema lecithinolyticum^{VP} Wyss et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700332. High-quality 16S rRNA sequence S000084627 (RDP), X87139 (Genbank). N4Lid DOI: 10.1601/nm.7865

Treponema maltophilum^{VP} Wyss et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51939. High-quality 16S rRNA sequence S000010883 (RDP), X87140 (Genbank). N4Lid DOI: 10.1601/nm.7866

Treponema medium^{VP} Umemoto et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700293. High-quality 16S rRNA sequence S000435847 (RDP), D85437 (Genbank). N4Lid DOI: 10.1601/nm.7867

Treponema minutum^{AL} Dobell 1912. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIPP 5162. N4Lid DOI: 10.1601/nm.7868

Treponema paraluisancuniculi^{AL} corrig. (Jacobsthal 1920) Smibert 1974. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. GOLD ID: Gi01874. GCAT ID: 001082_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.7869

Treponema parvum^{VP} Wyss et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700770. High-quality 16S rRNA sequence S000390992 (RDP), AF302937 (Genbank). N4Lid DOI: 10.1601/nm.7870

Treponema pectinovorum^{VP} Smibert and Burmeister 1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33768. High-quality 16S rRNA sequence S000436644 (RDP), M71237 (Genbank). N4Lid DOI: 10.1601/nm.7871

Treponema pertenuis^{AL} (Castellani 1905) Castellani and Chalmers 1910. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. GOLD ID: Gi01871. GCAT ID: 001079_GCAT. Sequenced strain: CDC2 is from a non-type

strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 3 (GOLD). N4Lid DOI: 10.1601/nm.7872

Treponema porcinum^{VP} Nordhoff et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-908. High-quality 16S rRNA sequence S000572913 (RDP), AY518274 (Genbank). N4Lid 10.1601/nm.9564

Treponema primitia^{VP} Graber et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-887. High-quality 16S rRNA sequence S000428743 (RDP), AF093251 (Genbank). GOLD ID: Gi01248. GCAT ID: 001616_GCAT. 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.8894

Treponema putidum^{VP} Wyss et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700334. High-quality 16S rRNA sequence S000366454 (RDP), AJ543428 (Genbank). N4Lid 10.1601/nm.8895

Treponema saccharophilum^{VP} Paster and Canale-Parola 1986. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43261. High-quality 16S rRNA sequence S000436645 (RDP), M71238 (Genbank). N4Lid DOI: 10.1601/nm.7873

Treponema socranskii subsp. buccale^{VP} Smibert et al. 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35534. High-quality 16S rRNA sequence S000427888 (RDP), AF033305 (Genbank). N4Lid DOI: 10.1601/nm.7875

Treponema socranskii subsp. paredis^{VP} Smibert et al. 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35535. High-quality 16S rRNA sequence S000427890 (RDP), AF033307 (Genbank). N4Lid DOI: 10.1601/nm.7876

Treponema socranskii subsp. socranskii^{VP} Smibert et al. 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35534. High-quality 16S rRNA sequence S000427889 (RDP), AF033306 (Genbank). N4Lid DOI: 10.1601/nm.7874

Treponema succinifaciens^{VP} Cwyk and Canale-Parola 1981. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33096. High-quality 16S rRNA sequence S000436330 (RDP), M57738 (Genbank). N4Lid DOI: 10.1601/nm.7877

Family "Brachyspiraceae" N4Lid DOI: 10.1601/nm.7878

Genus *Brachyspira*^{VP} Hovind-Hougen et al. 1983. ≈ *Brachyspira* (later heterotypic synonym), links through 10.1601/nm.7886. N4Lid DOI: 10.1601/nm.7886

Brachyspira aalborgi^{VP} Hovind-Hougen et al. 1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43994. High-quality 16S rRNA sequence S000128282 (RDP), Z22781 (Genbank). N4Lid DOI: 10.1601/nm.7887

Brachyspira alvinipulli^{VP} Stanton et al. 1998. <==Synonym links through N4Lid: 10.1601/ex.7881. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51933. N4Lid DOI: 10.1601/nm.7888

† *Serpulina alvinipulli*^{VP} Stanton et al. 1998. ==> *Brachyspira alvinipulli* (new combination). Synonym links through N4Lid: 10.1601/ex.7881. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51933. N4Lid DOI: 10.1601/nm.7881

Brachyspira hyodysenteriae^{VP} (Harris et al. 1972) Ochiai et al. 1998. <== *Treponema hyodysenteriae* (basonym). Synonym links through N4Lid: 10.1601/ex.7889. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27164. High-quality 16S rRNA sequence S000436335 (RDP), M57743 (Genbank). N4Lid DOI: 10.1601/nm.7889

† *Serpulina hyodysenteriae*^{VP} (Harris et al. 1972) Stanton et al. 1991. <== *Treponema hyodysenteriae* (basonym). *Serpulina hyodysenteriae* (new combination). Synonym links through N4Lid: 10.1601/ex.7889. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27164. High-quality 16S rRNA sequence S000436335 (RDP), M57743 (Genbank). N4Lid 10.1601/nm.9167

† *Serpulina hyodysenteriae*^{VP} (Harris et al. 1972) Stanton 1992. <== *Treponema hyodysenteriae* (basonym). *Brachyspira hyodysenteriae* (new combination). Synonym links through N4Lid: 10.1601/ex.7889. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27164. High-quality 16S rRNA sequence S000436335 (RDP), M57743 (Genbank). N4Lid DOI: 10.1601/nm.7880

† *Treponema hyodysenteriae*^{AL} Harris et al. 1972. ==> *Serpula hyodysenteriae* (new combination). Synonym links through N4Lid: 10.1601/ex.7889. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27164. N4Lid DOI: 10.1601/nm.7863

Brachyspira innocens^{VP} (Kinyon and Harris 1979) Ochiai et al. 1998. <== *Treponema innocens* (basonym). Synonym links through N4Lid: 10.1601/ex.7890. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29796. High-quality 16S rRNA sequence S000436336 (RDP), M57744 (Genbank). N4Lid DOI: 10.1601/nm.7890

† *Serpula innocens*^{VP} (Kinyon and Harris 1979) Stanton et al. 1991. <== *Treponema innocens* (basonym). *Serpulina innocens* (new combination). Synonym links through N4Lid: 10.1601/ex.7890. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29796. High-quality 16S rRNA sequence S000436336 (RDP), M57744 (Genbank). N4Lid 10.1601/nm.9168

† *Serpulina innocens*^{VP} (Kinyon and Harris 1979) Stanton 1992. <== *Treponema innocens* (basonym). *Brachyspira innocens* (new combination). Synonym links through N4Lid: 10.1601/ex.7890. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29796. High-quality 16S rRNA sequence S000436336 (RDP), M57744 (Genbank). N4Lid DOI: 10.1601/nm.7882

† *Treponema innocens*^{AL} Kinyon and Harris 1979. ==> *Serpula innocens* (new combination). Synonym links through N4Lid: 10.1601/ex.7890. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29796. High-quality 16S rRNA sequence S000436336 (RDP), M57744 (Genbank). N4Lid DOI: 10.1601/nm.7864

Brachyspira intermedia^{VP} (Stanton et al. 1997) Hampson and La 2006. <== *Serpulina intermedia* (basonym). Synonym links through N4Lid: 10.1601/ex.7883. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51140. High-quality 16S rRNA sequence S000437290 (RDP), U23033 (Genbank). N4Lid 10.1601/nm.9796

† *Serpulina intermedia*^{VP} Stanton et al. 1997. ==> *Brachyspira intermedia* (new combination). Synonym links through N4Lid: 10.1601/ex.7883. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51140. High-quality 16S rRNA sequence S000437290 (RDP), U23033 (Genbank). N4Lid DOI: 10.1601/nm.7883

Brachyspira murdochii^{VP} (Stanton et al. 1997) Hampson and La 2006. <== *Serpulina murdochii* (basonym). Synonym links through N4Lid: 10.1601/ex.7884. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51284. High-quality 16S rRNA sequence S000406837 (RDP), AY312492 (Genbank). N4Lid 10.1601/nm.9797

† *Serpulina murdochii*^{VP} Stanton et al. 1997. ==> *Brachyspira murdochii* (new combination). Synonym links through N4Lid: 10.1601/ex.7884. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51284. High-quality 16S rRNA sequence S000406837 (RDP), AY312492 (Genbank). N4Lid DOI: 10.1601/nm.7884

† *Brachyspira pilosicoli*^{VP} (Trott et al. 1996) Ochiai et al. 1998. <== *Serpulina pilosicoli* (basonym). Synonym links through N4Lid: 10.1601/ex.7885. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51139. High-quality 16S rRNA sequence S000398525 (RDP), AY155458 (Genbank). N4Lid DOI: 10.1601/nm.7891

† *Serpulina pilosicoli*^{VP} Trott et al. 1996. ==> *Brachyspira pilosicoli* (new combination). Synonym links through N4Lid: 10.1601/ex.7885. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51139. High-quality 16S rRNA sequence S000398525 (RDP), AY155458 (Genbank). N4Lid DOI: 10.1601/nm.7885

Genus † *Serpula*^{VP} Stanton et al. 1991. Illegitimate name. DOI: 10.1601/nm.9166

Genus † *Serpulina*^{VP} Stanton 1992. ≈ *Brachyspira* (earlier heterotypic synonym), links through 10.1601/nm.7886. N4Lid DOI: 10.1601/nm.7879

Family *Leptospiraceae*^{AL} Hovind-Hougen 1979. N4Lid DOI: 10.1601/nm.7892

Genus *Leptospira*^{AL} Noguchi 1917. N4Lid DOI: 10.1601/nm.7893

Leptospira interrogans^{AL} (Stimson 1907) Wenyon 1926. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23581. High-quality 16S rRNA sequence S000126674 (RDP), Z12817 (Genbank). GOLD ID: Gc00132. GCAT ID: 000478_GCAT. Entrez genome id: 52. Sequenced strain: 56601 is from a non-type strain. Genome

sequencing is completed. Number of genomes of this species sequenced 3 (GOLD) 2 (NCBI). N4Lid DOI: 10.1601/nm.7894

Leptospira alexanderi^{VP} Brenner et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700520. N4Lid DOI: 10.1601/nm.7895

Leptospira biflexa^{AL} (Wolbach and Binger 1914) Noguchi 1918. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23582. High-quality 16S rRNA sequence S000127934 (RDP), Z12821 (Genbank). GOLD ID: Gi01016. GCAT ID: 001165_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.7896

Leptospira borgpetersenii^{VP} Yasuda et al. 1987. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43292. High-quality 16S rRNA sequence S000006243 (RDP), Z21630 (Genbank). GOLD ID: Gc00433. GCAT ID: 000177_GCAT. Entrez genome id: 16146. Sequenced strain: L550 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.7897

Leptospira broomii^{VP} Levett et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1107. High-quality 16S rRNA sequence S000444954 (RDP), AY796065 (Genbank). N4Lid 10.1601/nm.9958

Leptospira fainei^{VP} Perolat et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1109. N4Lid DOI: 10.1601/nm.7898

Leptospira inadai^{VP} Yasuda et al. 1987. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43289. N4Lid DOI: 10.1601/nm.7899

Leptospira kirschneri^{VP} Ramadass et al. 1992. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49945. High-quality 16S rRNA sequence S000010399 (RDP), Z21628 (Genbank). N4Lid DOI: 10.1601/nm.7900

Leptospira meyeri^{VP} Yasuda et al. 1987. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43287. High-quality 16S rRNA sequence S000014982 (RDP), Z21648 (Genbank). N4Lid DOI: 10.1601/nm.7901

Leptospira noguchii^{VP} Yasuda et al. 1987. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43288. High-quality 16S rRNA sequence S000009649 (RDP), Z21635 (Genbank). N4Lid DOI: 10.1601/nm.7902

Leptospira santarosai^{VP} Yasuda et al. 1987. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43286. N4Lid DOI: 10.1601/nm.7904

Leptospira weilii^{VP} Yasuda et al. 1987. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43285. High-quality 16S rRNA sequence S000437130 (RDP), U12676 (Genbank). N4Lid DOI: 10.1601/nm.7905

Leptospira wolbachii^{VP} Yasuda et al. 1987. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43284. High-quality 16S rRNA sequence S000009653 (RDP), Z21638 (Genbank). N4Lid DOI: 10.1601/nm.7906

Genus *Turneriella*^{VP} Levett et al. 2005. N4Lid 10.1601/nm.9556

Turneriella parva^{VP} (Hovind-Hougen et al. 1982) Levett et al. 2005. <== *Leptospira parva* (basonym). Synonym links through N4Lid: 10.1601/ex.7903. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1111. High-quality 16S rRNA sequence S000022195 (RDP), Z21636 (Genbank). N4Lid 10.1601/nm.9259

† *Leptospira parva*^{VP} Hovind-Hougen et al. 1982. ==> *Turneriella parva* (new combination). Synonym links through N4Lid: 10.1601/ex.7903. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1111. High-quality 16S rRNA sequence S000022195 (RDP), Z21636 (Genbank). N4Lid DOI: 10.1601/nm.7903

Genus *Leptonema*^{VP} Hovind-Hougen 1983. N4Lid DOI: 10.1601/nm.7907

Leptonema illini^{VP} Hovind-Hougen 1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCTC 11301. High-quality 16S rRNA sequence S000005504 (RDP), Z21632 (Genbank). N4Lid DOI: 10.1601/nm.7908

Phylum "*Fibrobacteres*" N4Lid DOI: 10.1601/nm.7909

Class "*Fibrobacteres*" N4Lid DOI: 10.1601/nm.7910

Order "Fibrobacterales" N4Lid DOI: 10.1601/nm.7911

Family "Fibrobacteraceae" N4Lid DOI: 10.1601/nm.7912

Genus *Fibrobacter*^{VP} Montgomery et al. 1988. N4Lid DOI: 10.1601/nm.7913

Fibrobacter succinogenes subsp. succinogenes^{VP} (Hungate 1950) Montgomery et al. 1988. <==
Bacteroides succinogenes (basonym). Synonym links through N4Lid: 10.1601/ex.7986. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19169. High-quality 16S rRNA sequence S000436597 (RDP), M62689 (Genbank). GOLD ID: Gi00251. GCAT ID: 001055_GCAT. Entrez genome id: 47. Sequenced strain: S85 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.7914

† *Bacteroides succinogenes*^{AL} Hungate 1950. ==> *Fibrobacter succinogenes subsp. succinogenes* (new combination). Synonym links through N4Lid: 10.1601/ex.7986. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19169. High-quality 16S rRNA sequence S000436597 (RDP), M62689 (Genbank). GOLD ID: Gi00251. GCAT ID: 001055_GCAT. Entrez genome id: 47. Sequenced strain: S85 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.7986

Fibrobacter succinogenes subsp. elongatus^{VP} corrig. Montgomery et al. 1988. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43856. N4Lid DOI: 10.1601/nm.7915

Fibrobacter intestinalis^{VP} Montgomery et al. 1988. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43854. High-quality 16S rRNA sequence S000436603 (RDP), M62695 (Genbank). N4Lid DOI: 10.1601/nm.7916

Phylum "Acidobacteria" GOLD ID: Gi01673. GCAT ID: 000612_GCAT. Sequenced strain: F11 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.7917

Class "Acidobacteria" N4Lid DOI: 10.1601/nm.7918

Order Acidobacteriales^{VP} Cavalier-Smith 2002. N4Lid DOI: 10.1601/nm.7919

Family "Acidobacteriaceae" N4Lid DOI: 10.1601/nm.7920

Genus *Acidobacterium*^{VP} Kishimoto et al. 1991. GOLD ID: Gc00380. GCAT ID: 000230_GCAT. Entrez genome id: 15771. Sequenced strain: Ellin345 is from a non-type strain. Genome sequencing is completed. Number of genomes of this species sequenced 2 (GOLD). N4Lid DOI: 10.1601/nm.7921

Acidobacterium capsulatum^{VP} Kishimoto et al. 1991. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51196. High-quality 16S rRNA sequence S000413609 (RDP), D26171 (Genbank). GOLD ID: Gi00004. GCAT ID: 000616_GCAT. Entrez genome id: 1. Sequenced strain: ATCC 51196 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.7922

Genus *Geothrix*^{VP} Coates et al. 1999. N4Lid DOI: 10.1601/nm.7923

Geothrix fermentans^{VP} Coates et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700665. High-quality 16S rRNA sequence S000437601 (RDP), U41563 (Genbank). GOLD ID: Gi00808. GCAT ID: 001107_GCAT. Entrez genome id: 13380. Genome sequence is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.7924

Genus *Holophaga*^{VP} Liesack et al. 1995. N4Lid DOI: 10.1601/nm.7925

Holophaga foetida^{VP} Liesack et al. 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 6591. High-quality 16S rRNA sequence S000021309 (RDP), X77215 (Genbank). N4Lid DOI: 10.1601/nm.7926

Phylum "Bacteroidetes" N4Lid DOI: 10.1601/nm.7927

Class "Bacteroidetes" N4Lid DOI: 10.1601/nm.7928

Order "Bacteroidales" N4Lid DOI: 10.1601/nm.7929

Family *Bacteroidaceae*^{AL} Pribram 1933. N4Lid DOI: 10.1601/nm.7930

Genus *Bacteroides*^{AL} Castellani and Chalmers 1919. GOLD ID: Gi01389. GCAT ID: 000768_GCAT. Sequenced strain: WH2 is from a non-type strain. Genome sequencing is

incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.7931

Bacteroides fragilis^{AL} (Veillon and Zuber 1898) Castellani and Chalmers 1919. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25285. High-quality 16S rRNA sequence S000015672 (RDP), X83935 (Genbank). GOLD ID: Gc00222. GCAT ID: 000388_GCAT. Entrez genome id: 13067. Sequenced strain: ATCC 25285 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 4 (GOLD) 2 (NCBI). N4Lid DOI: 10.1601/nm.7932

Bacteroides acidifaciens^{VP} Miyamoto and Itoh 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 10556. High-quality 16S rRNA sequence S000008023 (RDP), AB021164 (Genbank). N4Lid DOI: 10.1601/nm.7933

Bacteroides caccae^{VP} Johnson et al. 1986. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43185. High-quality 16S rRNA sequence S000014216 (RDP), X83951 (Genbank). GOLD ID: Gi01709. GCAT ID: 000652_GCAT. Entrez genome id: 18163. Sequenced strain: ATCC 43185 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.7939

Bacteroides capillosus^{AL} (Tissier 1908) Kelly 1957. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29799. High-quality 16S rRNA sequence S000397238 (RDP), AY136666 (Genbank). GOLD ID: Gi01714. GCAT ID: 000657_GCAT. Entrez genome id: 18173. Sequenced strain: ATCC 29799 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.7940

Bacteroides cellulosolvens^{VP} Murray et al. 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35603. High-quality 16S rRNA sequence S000414642 (RDP), L35517 (Genbank). N4Lid DOI: 10.1601/nm.7942

Bacteroides coagulans^{AL} Eggerth and Gagnon 1933. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29798. N4Lid DOI: 10.1601/nm.7943

Bacteroides coprocola^{VP} Kitahara et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17136. High-quality 16S rRNA sequence S000530402 (RDP), AB200224 (Genbank). N4Lid 10.1601/nm.9645

Bacteroides coprosuis^{VP} Whitehead et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NRRL B-41113. High-quality 16S rRNA sequence S000002840 (RDP), AF319778 (Genbank). N4Lid 10.1601/nm.9759

Bacteroides dorei^{VP} Bakir et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17855. High-quality 16S rRNA sequence S000650604 (RDP), AB242142 (Genbank). N4Lid DOI: 10.1601/nm.10176

Bacteroides eggerthii^{AL} Holdeman and Moore 1974. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27754. High-quality 16S rRNA sequence S000414468 (RDP), L16485 (Genbank). N4Lid DOI: 10.1601/nm.7948

Bacteroides finegoldii^{VP} Bakir et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17565. High-quality 16S rRNA sequence S000622829 (RDP), AB222699 (Genbank). N4Lid DOI: 10.1601/nm.10054

Bacteroides galacturonicus^{VP} Jensen and Canale-Parola 1987. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43244. N4Lid DOI: 10.1601/nm.7952

Bacteroides helcogenes^{VP} Benno et al. 1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35417. N4Lid DOI: 10.1601/nm.7955

Bacteroides intestinalis^{VP} Bakir et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17393. High-quality 16S rRNA sequence S000591184 (RDP), AB214328 (Genbank). N4Lid 10.1601/nm.9855

Bacteroides massiliensis^{VP} Fenner et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 48901. High-quality 16S rRNA sequence S000546342 (RDP), AY126616 (Genbank). N4Lid 10.1601/nm.9469

Bacteroides nordii^{VP} Song et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-998. High-quality 16S rRNA sequence S000451794 (RDP), AY608697 (Genbank). N4Lid 10.1601/nm.9390

Bacteroides ovatus^{AL} Eggerth and Gagnon 1933. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 8483. High-quality 16S rRNA sequence S000014599 (RDP), X83952 (Genbank). GOLD ID: Gi01711. GCAT ID: 000654_GCAT. Entrez genome id: 18191. Sequenced strain: ATCC 8483 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.7973

Bacteroides pectinophilus^{VP} Jensen and Canale-Parola 1987. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43243. N4Lid DOI: 10.1601/nm.7974

Bacteroides plebeius^{VP} Kitahara et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17135. High-quality 16S rRNA sequence S000530395 (RDP), AB200217 (Genbank). N4Lid 10.1601/nm.9644

Bacteroides polypragmatus^{VP} Patel and Breuil 1982. Source of type material recommended for DOE sponsored genome sequencing by the JGI: GP4. N4Lid DOI: 10.1601/nm.7977

Bacteroides pyogenes^{VP} Benno et al. 1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35418. N4Lid DOI: 10.1601/nm.7980

Bacteroides salyersiae^{VP} corrig. Song et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-997. High-quality 16S rRNA sequence S000451793 (RDP), AY608696 (Genbank). N4Lid 10.1601/nm.9391

Bacteroides splanchnicus^{AL} Werner et al. 1975. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29572. High-quality 16S rRNA sequence S000414479 (RDP), L16496 (Genbank). N4Lid DOI: 10.1601/nm.7984

Bacteroides stercoris^{VP} Johnson et al. 1986. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43183. High-quality 16S rRNA sequence S000010358 (RDP), X83953 (Genbank). N4Lid DOI: 10.1601/nm.7985

Bacteroides suis^{VP} Benno et al. 1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35419. N4Lid DOI: 10.1601/nm.7987

Bacteroides tectus^{VP} corrig. Love et al. 1986. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43331. N4Lid DOI: 10.1601/nm.7988

Bacteroides thetaiotaomicron^{AL} (Distaso 1912) Castellani and Chalmers 1919. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29148. High-quality 16S rRNA sequence S000414472 (RDP), L16489 (Genbank). GOLD ID: Gc00126. GCAT ID: 000484_GCAT. Entrez genome id: 399. Sequenced strain: ATCC 29148 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 3 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.7990

Bacteroides uniformis^{AL} Eggerth and Gagnon 1933. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 8492. High-quality 16S rRNA sequence S000414469 (RDP), L16486 (Genbank). GOLD ID: Gi01712. GCAT ID: 000655_GCAT. Entrez genome id: 18195. Sequenced strain: ATCC 8492 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.7991

Bacteroides ureolyticus^{AL} Jackson and Goodman 1978. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33387. High-quality 16S rRNA sequence S000414273 (RDP), L04321 (Genbank). N4Lid DOI: 10.1601/nm.7992

Bacteroides vulgatus^{AL} Eggerth and Gagnon 1933. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 8482. High-quality 16S rRNA sequence S000436356 (RDP), M58762 (Genbank). GOLD ID: Gi00072. GCAT ID: 000771_GCAT. Entrez genome id: 13378. Sequenced strain: ATCC 8482 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.7994

Bacteroides xyloxyticus^{VP} Scholten-Koerselman et al. 1988. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 3808. N4Lid DOI: 10.1601/nm.7995

Genus *Anaerophaga* ^{VP} Denger et al. 2002. N4Lid DOI: 10.1601/nm.8004

Anaerophaga thermohalophila ^{VP} Denger et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 12881. High-quality 16S rRNA sequence S000022636 (RDP), AJ418048 (Genbank). N4Lid DOI: 10.1601/nm.8005

Genus *Anaerorhabdus* ^{VP} Shah and Collins 1986. N4Lid DOI: 10.1601/nm.8006

Anaerorhabdus furcosa ^{VP} corrig. (Veillon and Zuber 1898) Shah and Collins 1986. <== *Bacteroides furcosus* (basonym). Synonym links through N4Lid: 10.1601/ex.7951. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25662. N4Lid DOI: 10.1601/nm.8007

† *Bacteroides furcosus* ^{AL} (Veillon and Zuber 1898) Hauduroy et al. 1937. ==> *Anaerorhabdus furcosa* (new combination). Synonym links through N4Lid: 10.1601/ex.7951. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25662. N4Lid DOI: 10.1601/nm.7951

Genus *Megamonas* ^{VP} Shah and Collins 1983. N4Lid DOI: 10.1601/nm.8008

Megamonas hypermegale ^{VP} corrig. (Harrison and Hansen 1963) Shah and Collins 1983. <== *Bacteroides hypermegas* (basonym). Synonym links through N4Lid: 10.1601/ex.7957. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25560. High-quality 16S rRNA sequence S000020429 (RDP), AJ420107 (Genbank). N4Lid DOI: 10.1601/nm.8009

† *Bacteroides hypermegas* ^{AL} Harrison and Hansen 1963. ==> *Megamonas hypermegale* (new combination). Synonym links through N4Lid: 10.1601/ex.7957. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25560. High-quality 16S rRNA sequence S000020429 (RDP), AJ420107 (Genbank). N4Lid DOI: 10.1601/nm.7957

Genus *Pontibacter* ^{VP} Nedashkovskaya et al. 2005. N4Lid 10.1601/nm.9761

Pontibacter actiniarum ^{VP} Nedashkovskaya et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 23027. High-quality 16S rRNA sequence S000528027 (RDP), AY989908 (Genbank). N4Lid 10.1601/nm.9760

Family "Rikenellaceae" N4Lid DOI: 10.1601/nm.8010

Genus *Rikenella* ^{VP} Collins et al. 1985. N4Lid DOI: 10.1601/nm.8011

Rikenella microfusus ^{VP} (Kaneuchi and Mitsuoka 1978) Collins et al. 1985. <== *Bacteroides microfusus* (basonym). Synonym links through N4Lid: 10.1601/ex.7966. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29728. High-quality 16S rRNA sequence S000414481 (RDP), L16498 (Genbank). N4Lid DOI: 10.1601/nm.8012

† *Bacteroides microfusus* ^{AL} Kaneuchi and Mitsuoka 1978. ==> *Rikenella microfusus* (new combination). Synonym links through N4Lid: 10.1601/ex.7966. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29728. High-quality 16S rRNA sequence S000414481 (RDP), L16498 (Genbank). N4Lid DOI: 10.1601/nm.7966

Genus *Alistipes* ^{VP} Rautio et al. 2003. N4Lid DOI: 10.1601/nm.8013

Alistipes finegoldii ^{VP} Rautio et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 46020. High-quality 16S rRNA sequence S000459001 (RDP), AJ518874 (Genbank). N4Lid DOI: 10.1601/nm.8014

Alistipes onderdonkii ^{VP} Song et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1178. High-quality 16S rRNA sequence S000577392 (RDP), AY974071 (Genbank). N4Lid DOI: 10.1601/nm.10265

Alistipes putredinis ^{VP} (Weinberg et al. 1937) Rautio et al. 2003. <== *Bacteroides putredinis* (basonym). Synonym links through N4Lid: 10.1601/ex.7979. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29800. High-quality 16S rRNA sequence S000414480 (RDP), L16497 (Genbank). N4Lid DOI: 10.1601/nm.8015

† *Bacteroides putredinis* ^{AL} (Weinberg et al. 1937) Kelly 1957. ==> *Alistipes putredinis* (new combination). Synonym links through N4Lid: 10.1601/ex.7979. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29800. High-quality 16S rRNA sequence S000414480 (RDP), L16497 (Genbank). N4Lid DOI: 10.1601/nm.7979

Alistipes shahii^{VP} Song et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1179. High-quality 16S rRNA sequence S000577393 (RDP), AY974072 (Genbank). N4Lid DOI: 10.1601/nm.10266

Genus *Alkaliflexus*^{VP} Zhilina et al. 2005. N4Lid 10.1601/nm.9472

Alkaliflexus imshenetskii^{VP} Zhilina et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15055. High-quality 16S rRNA sequence S000440489 (RDP), AJ784993 (Genbank). N4Lid 10.1601/nm.9471

Genus *Marinilabilia*^{VP} Nakagawa and Yamasato 1996. N4Lid DOI: 10.1601/nm.8016

Marinilabilia salmonicolor^{VP} (Veldkamp 1961) Nakagawa and Yamasato 1996. <== *Cytophaga salmonicolor* (basonym). Synonym links through N4Lid: 10.1601/ex.8290. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19041. High-quality 16S rRNA sequence S000436589 (RDP), M62422 (Genbank). N4Lid DOI: 10.1601/nm.8017

† *Cytophaga salmonicolor*^{AL} Veldkamp 1961. ==> *Marinilabilia salmonicolor* (new combination). Synonym links through N4Lid: 10.1601/ex.8290. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19041. High-quality 16S rRNA sequence S000436589 (RDP), M62422 (Genbank). N4Lid DOI: 10.1601/nm.8290

Marinilabilia agarovorans^{VP} (Reichenbach 1989) Nakagawa and Yamasato 1996. <== *Cytophaga agarovorans* (basonym). Synonym links through N4Lid: 10.1601/ex.8272. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19043. N4Lid DOI: 10.1601/nm.8018

† *Cytophaga agarovorans*^{VP} (ex Veldkamp 1961) Reichenbach 1989. ==> *Marinilabilia agarovorans* (new combination). Synonym links through N4Lid: 10.1601/ex.8272. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19043. N4Lid DOI: 10.1601/nm.8272

Genus *Petrimonas*^{VP} Grabowski et al. 2005. N4Lid 10.1601/nm.9461

Petrimonas sulfuriphila^{VP} Grabowski et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16547. High-quality 16S rRNA sequence S000441993 (RDP), AY570690 (Genbank). N4Lid 10.1601/nm.9460

Family "Porphyromonadaceae" N4Lid DOI: 10.1601/nm.8019

Genus *Porphyromonas*^{VP} Shah and Collins 1988. ≈ *Porphyromonas* (later heterotypic synonym), links through 10.1601/nm.8020. N4Lid DOI: 10.1601/nm.8020

Porphyromonas asaccharolytica^{VP} (Holdeman and Moore 1970) Shah and Collins 1988. <== *Bacteroides asaccharolyticus* (basonym). Synonym links through N4Lid: 10.1601/ex.7935. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25260. High-quality 16S rRNA sequence S000414473 (RDP), L16490 (Genbank). N4Lid DOI: 10.1601/nm.8021

† *Bacteroides asaccharolyticus*^{AL} (Holdeman and Moore 1970) Finegold and Barnes 1977. ==> *Porphyromonas asaccharolytica* (new combination). Synonym links through N4Lid: 10.1601/ex.7935. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25260. High-quality 16S rRNA sequence S000414473 (RDP), L16490 (Genbank). N4Lid DOI: 10.1601/nm.7935

Porphyromonas cangingivalis^{VP} Collins et al. 1994. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700135. High-quality 16S rRNA sequence S000002378 (RDP), X76259 (Genbank). N4Lid DOI: 10.1601/nm.8022

Porphyromonas canoris^{VP} Love et al. 1994. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 36550. N4Lid DOI: 10.1601/nm.8023

Porphyromonas cansulci^{VP} Collins et al. 1994. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCTC 12858. High-quality 16S rRNA sequence S000009680 (RDP), X76260 (Genbank). N4Lid DOI: 10.1601/nm.8024

Porphyromonas catoniae^{VP} (Moore and Moore 1994) Willems and Collins 1995. <== *Oribaculum catoniae* (basonym). Synonym links through N4Lid: 10.1601/ex.8025. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51270. High-quality 16S rRNA sequence S000013923 (RDP), X82823 (Genbank). N4Lid DOI: 10.1601/nm.8025

† *Oribaculum catoniae*^{VP} Moore and Moore 1994. ==> *Porphyromonas catoniae* (new combination). Synonym links through N4Lid: 10.1601/ex.8025. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51270. High-quality 16S rRNA sequence S000013923 (RDP), X82823 (Genbank). N4Lid 10.1601/nm.9182

Porphyromonas circumdentaria^{VP} Love et al. 1992. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51356. High-quality 16S rRNA sequence S000414545 (RDP), L26102 (Genbank). N4Lid DOI: 10.1601/nm.8026

Porphyromonas crevioricanis^{VP} Hirasawa and Takada 1994. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 55563. N4Lid DOI: 10.1601/nm.8027

Porphyromonas endodontalis^{VP} (van Steenberg et al. 1984) Shah and Collins 1988. <== *Bacteroides endodontalis* (basonym). Synonym links through N4Lid: 10.1601/ex.7949. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35406. High-quality 16S rRNA sequence S000414474 (RDP), L16491 (Genbank). N4Lid DOI: 10.1601/nm.8028

† *Bacteroides endodontalis*^{VP} van Steenberg et al. 1984. ==> *Porphyromonas endodontalis* (new combination). Synonym links through N4Lid: 10.1601/ex.7949. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35406. High-quality 16S rRNA sequence S000414474 (RDP), L16491 (Genbank). N4Lid DOI: 10.1601/nm.7949

Porphyromonas gingivalis^{VP} (Coykendall et al. 1980) Shah and Collins 1988. <== *Bacteroides gingivalis* (basonym). Synonym links through N4Lid: 10.1601/ex.7953. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33277. High-quality 16S rRNA sequence S000414475 (RDP), L16492 (Genbank). GOLD ID: Gc00156. GCAT ID: 000454_GCAT. Entrez genome id: 48. Sequenced strain: W83 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.8029

† *Bacteroides gingivalis*^{VP} Coykendall et al. 1980. ==> *Porphyromonas gingivalis* (new combination). Synonym links through N4Lid: 10.1601/ex.7953. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33277. High-quality 16S rRNA sequence S000414475 (RDP), L16492 (Genbank). GOLD ID: Gc00156. GCAT ID: 000454_GCAT. Entrez genome id: 48. Sequenced strain: W83 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.7953

Porphyromonas gingivicanis^{VP} Hirasawa and Takada 1994. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 55562. N4Lid DOI: 10.1601/nm.8030

Porphyromonas gulae^{VP} Founier et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51700. High-quality 16S rRNA sequence S000389070 (RDP), AF208290 (Genbank). N4Lid DOI: 10.1601/nm.8031

Porphyromonas levii^{VP} (Johnson and Holdeman 1983) Shah et al. 1995. <== *Bacteroides levii* (basonym). Synonym links through N4Lid: 10.1601/ex.7959. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29147. High-quality 16S rRNA sequence S000414476 (RDP), L16493 (Genbank). N4Lid DOI: 10.1601/nm.8032

† *Bacteroides levii*^{VP} (ex Holdeman et al. 1977) Johnson and Holdeman 1983. ==> *Porphyromonas levii* (new combination). Synonym links through N4Lid: 10.1601/ex.7959. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29147. High-quality 16S rRNA sequence S000414476 (RDP), L16493 (Genbank). N4Lid DOI: 10.1601/nm.7959

Porphyromonas macacae^{VP} (Slots and Genco 1980) Love 1995. <== *Bacteroides melaninogenicus subsp. macacae* (basonym). Synonym links through N4Lid: 10.1601/ex.7964. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33141. High-quality 16S rRNA sequence S000414477 (RDP), L16494 (Genbank). N4Lid DOI: 10.1601/nm.8033

† *Bacteroides macacae*^{VP} (Slots and Genco 1980) Coykendall et al. 1980. <== *Bacteroides melaninogenicus subsp. macacae* (basonym). *Porphyromonas macacae* (new combination). Synonym links through N4Lid: 10.1601/ex.7964. Source of type material recommended for DOE

sponsored genome sequencing by the JGI: ATCC 33141. High-quality 16S rRNA sequence S000414477 (RDP), L16494 (Genbank). N4Lid DOI: 10.1601/nm.7961

† *Bacteroides melaninogenicus subsp. macacae*^{VP} Slots and Genco 1980. ==> *Bacteroides macacae* (new combination). Synonym links through N4Lid: 10.1601/ex.7964. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33141. High-quality 16S rRNA sequence S000414477 (RDP), L16494 (Genbank). N4Lid DOI: 10.1601/nm.7964

Porphyromonas salivosa^{VP} (Love et al. 1987) Love et al. 1992. <== *Bacteroides salivus* (basonym). Synonym links through N4Lid: 10.1601/ex.7983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49407. N4Lid DOI: 10.1601/nm.8034

† *Bacteroides salivus*^{VP} Love et al. 1987. ==> *Porphyromonas salivosa* (new combination). Synonym links through N4Lid: 10.1601/ex.7983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49407. N4Lid DOI: 10.1601/nm.7983

Porphyromonas somerae^{VP} Summanen et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1230. High-quality 16S rRNA sequence S000516011 (RDP), AY968205 (Genbank). N4Lid DOI: 10.1601/nm.10077

Porphyromonas uenonis^{VP} Finegold et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-906. High-quality 16S rRNA sequence S000441859 (RDP), AY570514 (Genbank). N4Lid 10.1601/nm.9296

Genus † *Oribaculum*^{VP} Moore and Moore 1994. ≈ *Porphyromonas* (earlier heterotypic synonym). links through 10.1601/nm.8020. N4Lid 10.1601/nm.9179

Genus *Dysgonomonas*^{VP} Hofstad et al. 2000. N4Lid DOI: 10.1601/nm.8035

Dysgonomonas gadei^{VP} Hofstad et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-286. High-quality 16S rRNA sequence S000017137 (RDP), Y18530 (Genbank). N4Lid DOI: 10.1601/nm.8036

Dysgonomonas capnocytophagoideis^{VP} Hofstad et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 17996. N4Lid DOI: 10.1601/nm.8037

Dysgonomonas mossii^{VP} Lawson et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 43457. High-quality 16S rRNA sequence S000140020 (RDP), AJ319867 (Genbank). N4Lid DOI: 10.1601/nm.8038

Genus *Paludibacter*^{VP} Ueki et al. 2006. N4Lid 10.1601/nm.9852

Paludibacter propionicigenes^{VP} Ueki et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17365. High-quality 16S rRNA sequence S000457665 (RDP), AB078842 (Genbank). N4Lid 10.1601/nm.9851

Genus *Parabacteroides*^{VP} Sakamoto and Benno 2006. N4Lid DOI: 10.1601/nm.10183

Parabacteroides distasonis^{VP} (Eggerth and Gagnon 1933) Sakamoto and Benno 2006. <== *Bacteroides distasonis* (basonym). Synonym links through N4Lid: 10.1601/ex.7947. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 8503. High-quality 16S rRNA sequence S000436850 (RDP), M86695 (Genbank). GOLD ID: Gi00067. GCAT ID: 000765_GCAT. Entrez genome id: 13485. Sequenced strain: ATCC 8503 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 0 (NCBI). N4Lid 10.1601/nm.9776

† *Bacteroides distasonis*^{AL} Eggerth and Gagnon 1933. ==> *Parabacteroides distasonis* (new combination). Synonym links through N4Lid: 10.1601/ex.7947. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 8503. High-quality 16S rRNA sequence S000436850 (RDP), M86695 (Genbank). GOLD ID: Gi00067. GCAT ID: 000765_GCAT. Entrez genome id: 13485. Sequenced strain: ATCC 8503 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.7947

Parabacteroides goldsteinii^{VP} (Song et al. 2006) Sakamoto and Benno 2006. <== *Bacteroides goldsteinii* (basonym). Synonym links through N4Lid: 10.1601/ex.9913. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1180. High-quality 16S rRNA sequence S000577391 (RDP), AY974070 (Genbank). N4Lid 10.1601/nm.9913

† *Bacteroides goldsteinii*^{VP} Song et al. 2006. ==> *Parabacteroides goldsteinii* (new combination). Synonym links through N4Lid: 10.1601/ex.9913. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1180. High-quality 16S rRNA sequence S000577391 (RDP), AY974070 (Genbank). N4Lid DOI: 10.1601/nm.10184

Parabacteroides merdae^{VP} (Johnson et al. 1986) Sakamoto and Benno 2006. <== *Bacteroides merdae* (basonym). Synonym links through N4Lid: 10.1601/ex.7965. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43184. High-quality 16S rRNA sequence S000005829 (RDP), X83954 (Genbank). GOLD ID: Gi01710. GCAT ID: 000653_GCAT. Entrez genome id: 18193. Sequenced strain: ATCC 43184 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 0 (NCBI). N4Lid 10.1601/nm.9777

† *Bacteroides merdae*^{VP} Johnson et al. 1986. ==> *Parabacteroides merdae* (new combination). Synonym links through N4Lid: 10.1601/ex.7965. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43184. High-quality 16S rRNA sequence S000005829 (RDP), X83954 (Genbank). GOLD ID: Gi01710. GCAT ID: 000653_GCAT. Entrez genome id: 18193. Sequenced strain: ATCC 43184 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.7965

Genus *Proteiniphilum*^{VP} Chen and Dong 2005. N4Lid 10.1601/nm.9747

Proteiniphilum acetatigenes^{VP} Chen and Dong 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12891. High-quality 16S rRNA sequence S000426025 (RDP), AY742226 (Genbank). N4Lid 10.1601/nm.9746

Genus *Tannerella*^{VP} Sakamoto et al. 2002. N4Lid DOI: 10.1601/nm.8039

Tannerella forsythensis^{VP} corrig. (Tanner et al. 1986) Sakamoto et al. 2002. <== *Bacteroides forsythus* (basonym). Synonym links through N4Lid: 10.1601/ex.7950. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43037. High-quality 16S rRNA sequence S000414478 (RDP), L16495 (Genbank). GOLD ID: Gi00646. GCAT ID: 000764_GCAT. Entrez genome id: 319. Sequenced strain: ATCC 43037 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 2 (NCBI). N4Lid DOI: 10.1601/nm.8040

† *Bacteroides forsythus*^{VP} Tanner et al. 1986. ==> *Tannerella forsythensis* (new combination). Synonym links through N4Lid: 10.1601/ex.7950. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43037. High-quality 16S rRNA sequence S000414478 (RDP), L16495 (Genbank). GOLD ID: Gi00646. GCAT ID: 000764_GCAT. Entrez genome id: 319. Sequenced strain: ATCC 43037 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 2 (NCBI). N4Lid DOI: 10.1601/nm.7950

Family "*Prevotellaceae*" N4Lid DOI: 10.1601/nm.8041

Genus *Prevotella*^{VP} Shah and Collins 1990. N4Lid DOI: 10.1601/nm.8042

Prevotella melaninogenica^{VP} (Oliver and Wherry 1921) Shah and Collins 1990. <== *Bacteroides melaninogenicus* subsp. *melaninogenicus* (basonym). Synonym links through N4Lid: 10.1601/ex.7962. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25845. High-quality 16S rRNA sequence S000414452 (RDP), L16469 (Genbank). N4Lid DOI: 10.1601/nm.8043

† *Bacteroides melaninogenicus* subsp. *melaninogenicus*^{AL} (Oliver and Wherry 1921) Holdeman and Moore 1970. ==> *Prevotella melaninogenica* (new combination). Synonym links through N4Lid: 10.1601/ex.7962. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25845. High-quality 16S rRNA sequence S000414452 (RDP), L16469 (Genbank). N4Lid DOI: 10.1601/nm.7962

Prevotella albensis^{VP} Avgustin et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 11370. High-quality 16S rRNA sequence S000007810 (RDP), AJ011683 (Genbank). N4Lid DOI: 10.1601/nm.8044

Prevotella baroniae^{VP} Downes et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16972. High-quality 16S rRNA sequence S000575568 (RDP), AY840553 (Genbank). N4Lid 10.1601/nm.9558

- Prevotella bergensis*^{VP} Downes et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17361. High-quality 16S rRNA sequence S000407967 (RDP), AY350613 (Genbank). N4Lid 10.1601/nm.9956
- Prevotella bivia*^{VP} (Holdeman and Johnson 1977) Shah and Collins 1990. <== *Bacteroides bivius* (basonym). Synonym links through N4Lid: 10.1601/ex.7936. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29303. High-quality 16S rRNA sequence S000414458 (RDP), L16475 (Genbank). N4Lid DOI: 10.1601/nm.8045
- † *Bacteroides bivius*^{AL} Holdeman and Johnson 1977. ==> *Prevotella bivia* (new combination). Synonym links through N4Lid: 10.1601/ex.7936. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29303. High-quality 16S rRNA sequence S000414458 (RDP), L16475 (Genbank). N4Lid DOI: 10.1601/nm.7936
- "*Prevotella ruminicola* subsp. *brevis*" <==Synonym links through N4Lid: 10.1601/ex.7982. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19188. N4Lid DOI: 10.1601/nm.8064
- † *Prevotella brevis*^{VP} (Bryant et al. 1958) Avgustin et al. 1997. <== *Bacteroides ruminicola* subsp. *brevis* (basonym). Synonym links through N4Lid: 10.1601/ex.7982. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19188. N4Lid DOI: 10.1601/nm.8046
- † *Bacteroides ruminicola* subsp. *brevis*^{AL} Bryant et al. 1958. ==> *Prevotella brevis* (new combination). Synonym links through N4Lid: 10.1601/ex.7982. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19188. N4Lid DOI: 10.1601/nm.7982
- Prevotella bryantii*^{VP} Avgustin et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 11371. High-quality 16S rRNA sequence S000003149 (RDP), AJ006457 (Genbank). N4Lid DOI: 10.1601/nm.8047
- Prevotella buccae*^{VP} (Holdeman et al. 1982) Shah and Collins 1990. <== *Bacteroides buccae* (basonym). Synonym links through N4Lid: 10.1601/ex.7937. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33574. High-quality 16S rRNA sequence S000414460 (RDP), L16477 (Genbank). N4Lid DOI: 10.1601/nm.8048
- † *Bacteroides capillus*^{VP} Kormman and Holt 1982. ≈ *Prevotella buccae* (earlier heterotypic synonym), links through 10.1601/nm.8048. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33690. High-quality 16S rRNA sequence S000414461 (RDP), L16478 (Genbank). N4Lid DOI: 10.1601/nm.7941
- † *Bacteroides pentosaceus*^{VP} Shah and Collins 1982. ≈ *Prevotella buccae* (earlier heterotypic synonym), links through 10.1601/nm.8048. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NCDO 2353. N4Lid DOI: 10.1601/nm.7975
- † *Bacteroides buccae*^{VP} Holdeman et al. 1982. ==> *Prevotella buccae* (new combination). Synonym links through N4Lid: 10.1601/ex.7937. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33574. High-quality 16S rRNA sequence S000414460 (RDP), L16477 (Genbank). N4Lid DOI: 10.1601/nm.7937
- Prevotella buccalis*^{VP} (Shah and Collins 1982) Shah and Collins 1990. <== *Bacteroides buccalis* (basonym). Synonym links through N4Lid: 10.1601/ex.7938. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35310. High-quality 16S rRNA sequence S000414459 (RDP), L16476 (Genbank). N4Lid DOI: 10.1601/nm.8049
- † *Bacteroides buccalis*^{VP} Shah and Collins 1982. ==> *Prevotella buccalis* (new combination). Synonym links through N4Lid: 10.1601/ex.7938. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35310. High-quality 16S rRNA sequence S000414459 (RDP), L16476 (Genbank). N4Lid DOI: 10.1601/nm.7938
- Prevotella corporis*^{VP} (Johnson and Holdeman 1983) Shah and Collins 1990. <== *Bacteroides corporis* (basonym). Synonym links through N4Lid: 10.1601/ex.7944. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33547. High-quality 16S rRNA sequence S000414448 (RDP), L16465 (Genbank). N4Lid DOI: 10.1601/nm.8050
- † *Bacteroides corporis*^{VP} Johnson and Holdeman 1983. ==> *Prevotella corporis* (new combination). Synonym links through N4Lid: 10.1601/ex.7944. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33547. High-quality 16S rRNA sequence S000414448 (RDP), L16465 (Genbank). N4Lid DOI: 10.1601/nm.7944

Prevotella dentalis^{VP} (Haapasalo et al. 1986) Willems and Collins 1995. <== *Mitsuokella dentalis* (basonym). Synonym links through N4Lid: 10.1601/ex.4404. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49559. High-quality 16S rRNA sequence S000005894 (RDP), X81876 (Genbank). N4Lid DOI: 10.1601/nm.8051

† *Mitsuokella dentalis*^{VP} Haapasalo et al. 1986. ==> *Prevotella dentalis* (new combination). Synonym links through N4Lid: 10.1601/ex.4404. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49559. High-quality 16S rRNA sequence S000005894 (RDP), X81876 (Genbank). N4Lid DOI: 10.1601/nm.4404

Prevotella denticola^{VP} (Shah and Collins 1982) Shah and Collins 1990. <== *Bacteroides denticola* (basonym). Synonym links through N4Lid: 10.1601/ex.7945. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35308. High-quality 16S rRNA sequence S000414450 (RDP), L16467 (Genbank). N4Lid DOI: 10.1601/nm.8052

† *Bacteroides denticola*^{VP} Shah and Collins 1982. ==> *Prevotella denticola* (new combination). Synonym links through N4Lid: 10.1601/ex.7945. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35308. High-quality 16S rRNA sequence S000414450 (RDP), L16467 (Genbank). N4Lid DOI: 10.1601/nm.7945

Prevotella disiens^{VP} (Holdeman and Johnson 1977) Shah and Collins 1990. <== *Bacteroides disiens* (basonym). Synonym links through N4Lid: 10.1601/ex.7946. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29426. High-quality 16S rRNA sequence S000414466 (RDP), L16483 (Genbank). N4Lid DOI: 10.1601/nm.8053

† *Bacteroides disiens*^{AL} Holdeman and Johnson 1977. ==> *Prevotella disiens* (new combination). Synonym links through N4Lid: 10.1601/ex.7946. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29426. High-quality 16S rRNA sequence S000414466 (RDP), L16483 (Genbank). N4Lid DOI: 10.1601/nm.7946

Prevotella enoeca^{VP} Moore et al. 1994. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51261. High-quality 16S rRNA sequence S000000063 (RDP), AJ005635 (Genbank). N4Lid DOI: 10.1601/nm.8054

Prevotella heparinolytica^{VP} (Okuda et al. 1985) Shah and Collins 1990. <== *Bacteroides heparinolyticus* (basonym). Synonym links through N4Lid: 10.1601/ex.7956. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35895. High-quality 16S rRNA sequence S000414470 (RDP), L16487 (Genbank). N4Lid DOI: 10.1601/nm.8055

† *Bacteroides heparinolyticus*^{VP} Okuda et al. 1985. ==> *Prevotella heparinolytica* (new combination). Synonym links through N4Lid: 10.1601/ex.7956. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35895. High-quality 16S rRNA sequence S000414470 (RDP), L16487 (Genbank). N4Lid DOI: 10.1601/nm.7956

Prevotella intermedia^{VP} (Holdeman and Moore 1970) Shah and Collins 1990. <== *Bacteroides melaninogenicus* subsp. *intermedius* (basonym). Synonym links through N4Lid: 10.1601/ex.7963. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25611. High-quality 16S rRNA sequence S000011989 (RDP), X73965 (Genbank). GOLD ID: Gi00478. GCAT ID: 001366_GCAT. Entrez genome id: 175. Sequenced strain: 17 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.8056

† *Bacteroides intermedius*^{VP} (Holdeman and Moore 1970) Johnson and Holdeman 1983. <== *Bacteroides melaninogenicus* subsp. *intermedius* (basonym). *Prevotella intermedia* (new combination). Synonym links through N4Lid: 10.1601/ex.7963. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25611. High-quality 16S rRNA sequence S000011989 (RDP), X73965 (Genbank). GOLD ID: Gi00478. GCAT ID: 001366_GCAT. Entrez genome id: 175. Sequenced strain: 17 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.7958

† *Bacteroides melaninogenicus* subsp. *intermedius*^{AL} Holdeman and Moore 1970. ==> *Bacteroides intermedius* (new combination). Synonym links through N4Lid: 10.1601/ex.7963. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25611. High-quality 16S rRNA sequence S000011989 (RDP), X73965 (Genbank). GOLD ID: Gi00478. GCAT ID: 001366_GCAT. Entrez genome id: 175. Sequenced strain: 17 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.7963

Prevotella loescheii^{VP} (Holdeman and Johnson 1982) Shah and Collins 1990. <== *Bacteroides loescheii* (basonym). Synonym links through N4Lid: 10.1601/ex.7960. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15930. High-quality 16S rRNA sequence S000414464 (RDP), L16481 (Genbank). N4Lid DOI: 10.1601/nm.8057

† *Bacteroides loescheii*^{VP} Holdeman and Johnson 1982. ==> *Prevotella loescheii* (new combination). Synonym links through N4Lid: 10.1601/ex.7960. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 15930. High-quality 16S rRNA sequence S000414464 (RDP), L16481 (Genbank). N4Lid DOI: 10.1601/nm.7960

Prevotella marshii^{VP} Downes et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16973. High-quality 16S rRNA sequence S000570095 (RDP), AF481227 (Genbank). N4Lid 10.1601/nm.9557

Prevotella multiformis^{VP} Sakamoto et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16608. High-quality 16S rRNA sequence S000496429 (RDP), AB182483 (Genbank). N4Lid 10.1601/nm.9382

Prevotella multisaccharivorax^{VP} Sakamoto et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17128. High-quality 16S rRNA sequence S000497367 (RDP), AB200414 (Genbank). N4Lid 10.1601/nm.9639

Prevotella nigrescens^{VP} Shah and Gharbia 1992. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33563. High-quality 16S rRNA sequence S000414454 (RDP), L16471 (Genbank). N4Lid DOI: 10.1601/nm.8058

Prevotella oralis^{VP} (Loesche et al. 1964) Shah and Collins 1990. <== *Bacteroides oralis* (basonym). Synonym links through N4Lid: 10.1601/ex.7970. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33269. High-quality 16S rRNA sequence S000414463 (RDP), L16480 (Genbank). N4Lid DOI: 10.1601/nm.8059

† *Bacteroides oralis*^{AL} Loesche et al. 1964. ==> *Prevotella oralis* (new combination). Synonym links through N4Lid: 10.1601/ex.7970. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33269. High-quality 16S rRNA sequence S000414463 (RDP), L16480 (Genbank). N4Lid DOI: 10.1601/nm.7970

Prevotella oris^{VP} (Holdeman et al. 1982) Shah and Collins 1990. <== *Bacteroides oris* (basonym). Synonym links through N4Lid: 10.1601/ex.7971. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33573. High-quality 16S rRNA sequence S000414457 (RDP), L16474 (Genbank). N4Lid DOI: 10.1601/nm.8060

† *Bacteroides oris*^{VP} Holdeman et al. 1982. ==> *Prevotella oris* (new combination). Synonym links through N4Lid: 10.1601/ex.7971. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33573. High-quality 16S rRNA sequence S000414457 (RDP), L16474 (Genbank). N4Lid DOI: 10.1601/nm.7971

Prevotella oulorum^{VP} corrig. (Shah et al. 1985) Shah and Collins 1990. <== *Bacteroides oulorum* (basonym). Synonym links through N4Lid: 10.1601/ex.7972. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43324. High-quality 16S rRNA sequence S000414455 (RDP), L16472 (Genbank). N4Lid DOI: 10.1601/nm.8061

† *Bacteroides oulorum*^{VP} Shah et al. 1985. ==> *Prevotella oulorum* (new combination). Synonym links through N4Lid: 10.1601/ex.7972. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43324. High-quality 16S rRNA sequence S000414455 (RDP), L16472 (Genbank). N4Lid DOI: 10.1601/nm.7972

Prevotella pallens^{VP} Könönen et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700821. High-quality 16S rRNA sequence S000004779 (RDP), Y13105 (Genbank). N4Lid DOI: 10.1601/nm.8062

Prevotella ruminicola subsp. ruminicola^{VP} (Bryant et al. 1958) Shah and Collins 1990. <== *Bacteroides ruminicola subsp. ruminicola* (basonym). Synonym links through N4Lid: 10.1601/ex.7981. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19189. GOLD ID: Gi00479. GCAT ID: 001367_GCAT. Entrez genome id: 10619. Sequenced strain: 23 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.8063

† *Bacteroides ruminicola* subsp. *ruminicola*^{AL} Bryant et al. 1958. ==> *Prevotella ruminicola* subsp. *ruminicola* (new combination). Synonym links through N4Lid: 10.1601/ex.7981. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19189. GOLD ID: Gi00479. GCAT ID: 001367_GCAT. Entrez genome id: 10619. Sequenced strain: 23 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 0 (NCBI). N4Lid DOI: 10.1601/nm.7981

Prevotella salivae^{VP} Sakamoto et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15606. High-quality 16S rRNA sequence S000334739 (RDP), AB108826 (Genbank). N4Lid 10.1601/nm.8787

Prevotella shahii^{VP} Sakamoto et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15611. High-quality 16S rRNA sequence S000334738 (RDP), AB108825 (Genbank). N4Lid 10.1601/nm.8788

Prevotella tanneriae^{VP} Moore et al. 1994. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51259. High-quality 16S rRNA sequence S000001977 (RDP), AJ005634 (Genbank). N4Lid DOI: 10.1601/nm.8065

Prevotella veroralis^{VP} (Watabe et al. 1983) Shah and Collins 1990. <== *Bacteroides veroralis* (basonym). Synonym links through N4Lid: 10.1601/ex.7993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33779. High-quality 16S rRNA sequence S000414456 (RDP), L16473 (Genbank). N4Lid DOI: 10.1601/nm.8066

† *Bacteroides veroralis*^{VP} Watabe et al. 1983. ==> *Prevotella veroralis* (new combination). Synonym links through N4Lid: 10.1601/ex.7993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33779. High-quality 16S rRNA sequence S000414456 (RDP), L16473 (Genbank). N4Lid DOI: 10.1601/nm.7993

Prevotella zoogloformans^{VP} (Weinberg et al. 1937) Shah and Collins 1990. <== *Capsularis zoogloformans* (basonym). Synonym links through N4Lid: 10.1601/ex.8067. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33285. High-quality 16S rRNA sequence S000414471 (RDP), L16488 (Genbank). N4Lid DOI: 10.1601/nm.8067

† *Bacteroides zoogloformans*^{VP} corrig. (Weinberg et al. 1937) Cato et al. 1982. <== *Capsularis zoogloformans* (basonym). *Prevotella zoogloformans* (new combination). Synonym links through N4Lid: 10.1601/ex.8067. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33285. High-quality 16S rRNA sequence S000414471 (RDP), L16488 (Genbank). N4Lid DOI: 10.1601/nm.7996

† *Capsularis zoogloformans*^{AL} corrig. (Weinberg et al. 1937) Prévot 1938. ==> *Bacteroides zoogloformans* (new combination). Synonym links through N4Lid: 10.1601/ex.8067. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33285. High-quality 16S rRNA sequence S000414471 (RDP), L16488 (Genbank). N4Lid 10.1601/nm.8994

Genus † *Capsularis*^{AL} Prévot 1938. Unified with *Bacteroides*, links through 10.1601/nm.3684. N4Lid 10.1601/nm.8993

Genus *Hallella*^{VP} Moore and Moore 1994. N4Lid 10.1601/nm.9180

Hallella sergens^{VP} Moore and Moore 1994. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51272. High-quality 16S rRNA sequence S000012366 (RDP), X81877 (Genbank). N4Lid 10.1601/nm.9181

Genus *Xylanibacter*^{VP} Ueki et al. 2006. N4Lid DOI: 10.1601/nm.10297

Xylanibacter oryzae^{VP} Ueki et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17970. High-quality 16S rRNA sequence S000642011 (RDP), AB078826 (Genbank). N4Lid DOI: 10.1601/nm.10296

Family *Incertae sedis 12*^{NVP} N4Lid 10.1601/nm.8938

Genus *Acetofilamentum*^{VP} Dietrich et al. 1989. N4Lid DOI: 10.1601/nm.7997

Acetofilamentum rigidum^{VP} Dietrich et al. 1989. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 20769. N4Lid DOI: 10.1601/nm.7998

Genus *Acetomicrobium*^{VP} Soutschek et al. 1985. N4Lid DOI: 10.1601/nm.7999

Acetomicrobium flavidum^{VP} Soutschek et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43122. N4Lid DOI: 10.1601/nm.8000

Acetomicrobium faecale^{VP} corrig. Winter et al. 1988. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 20678. N4Lid DOI: 10.1601/nm.8001

Genus *Acetothermus*^{VP} Dietrich et al. 1988. N4Lid DOI: 10.1601/nm.8002

Acetothermus paucivorans^{VP} Dietrich et al. 1988. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 20768. N4Lid DOI: 10.1601/nm.8003

Class "*Flavobacteria*" GOLD ID: Gi00898. GCAT ID: 001620_GCAT. Entrez genome id: 13604. Sequenced strain: BBFL7 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.8068

Order "*Flavobacteriales*" GOLD ID: Gi00904. GCAT ID: 001626_GCAT. Entrez genome id: 13595. Sequenced strain: HTCC2170 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.8069

Family *Flavobacteriaceae*^{VP} Reichenbach et al 1992. N4Lid DOI: 10.1601/nm.8070

Genus *Flavobacterium*^{AL} Bergey et al. 1923. N4Lid DOI: 10.1601/nm.8071

Flavobacterium aquatile^{AL} (Frankland and Frankland 1889) Bergey et al. 1923. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11947. High-quality 16S rRNA sequence S000013676 (RDP), M62797 (Genbank). N4Lid DOI: 10.1601/nm.8072

Flavobacterium acidificum^{AL} Steinhaus 1941. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 8366. N4Lid DOI: 10.1601/nm.8073

Flavobacterium acidurans^{AL} Millar 1973. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27383. N4Lid DOI: 10.1601/nm.8074

Flavobacterium antarcticum^{VP} Yi et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12383. High-quality 16S rRNA sequence S000503798 (RDP), AY581113 (Genbank). N4Lid 10.1601/nm.9377

Flavobacterium branchiophilum^{VP} corrig. Wakabayashi et al. 1989. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35035. High-quality 16S rRNA sequence S000413476 (RDP), D14017 (Genbank). N4Lid DOI: 10.1601/nm.8076

Flavobacterium columnare^{VP} (Bernardet and Grimont 1989) Bernardet et al. 1996. <== *Flexibacter columnaris* (basonym). Synonym links through N4Lid: 10.1601/ex.8253. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23463. High-quality 16S rRNA sequence S000439299 (RDP), D12659 (Genbank). N4Lid DOI: 10.1601/nm.8079

† *Flexibacter columnaris*^{VP} (ex Davis 1922) Bernardet and Grimont 1989. ==> *Flavobacterium columnare* (new combination). Synonym links through N4Lid: 10.1601/ex.8253. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23463. High-quality 16S rRNA sequence S000439299 (RDP), D12659 (Genbank). N4Lid DOI: 10.1601/nm.8253

Flavobacterium daejeonense^{VP} Kim et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17708. High-quality 16S rRNA sequence S000614620 (RDP), DQ222427 (Genbank). N4Lid DOI: 10.1601/nm.10177

Flavobacterium degerlachei^{VP} Van Trappen et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15718. High-quality 16S rRNA sequence S000263802 (RDP), AJ557886 (Genbank). N4Lid DOI: 10.1601/nm.8081

Flavobacterium denitrificans^{VP} Horn et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-842. High-quality 16S rRNA sequence S000543873 (RDP), AJ318907 (Genbank). N4Lid 10.1601/nm.9449

Flavobacterium flevense^{VP} (van der Meulen et al. 1974) Bernardet et al. 1996. <== *Cytophaga flevensis* (basonym). Synonym links through N4Lid: 10.1601/ex.8280. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27944. High-quality 16S rRNA sequence S000436361 (RDP), M58767 (Genbank). N4Lid DOI: 10.1601/nm.8084

† *Cytophaga flevensis*^{AL} van der Meulen et al. 1974. ==> *Flavobacterium flevense* (new combination). Synonym links through N4Lid: 10.1601/ex.8280. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27944. High-quality 16S rRNA sequence S000436361 (RDP), M58767 (Genbank). N4Lid DOI: 10.1601/nm.8280

- Flavobacterium frigidarium*^{VP} Humphry et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700810. High-quality 16S rRNA sequence S000388383 (RDP), AF162266 (Genbank). N4Lid DOI: 10.1601/nm.8085
- Flavobacterium frigidimaris*^{VP} Nogi et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15937. High-quality 16S rRNA sequence S000614621 (RDP), DQ222428 (Genbank). N4Lid 10.1601/nm.9651
- Flavobacterium frigoris*^{VP} Van Trappen et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15719. High-quality 16S rRNA sequence S000264514 (RDP), AJ557887 (Genbank). N4Lid DOI: 10.1601/nm.8086
- Flavobacterium fryxelicola*^{VP} Van Trappen et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108325. High-quality 16S rRNA sequence S000539636 (RDP), AJ811961 (Genbank). N4Lid 10.1601/nm.9379
- Flavobacterium gelidilacus*^{VP} Van Trappen et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15343. High-quality 16S rRNA sequence S000145631 (RDP), AJ440996 (Genbank). N4Lid DOI: 10.1601/nm.8087
- Flavobacterium gillisiae*^{VP} McCammon and Bowman 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ACAM 601. N4Lid DOI: 10.1601/nm.8088
- Flavobacterium granuli*^{VP} Aslam et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: KCTC 12201. High-quality 16S rRNA sequence S000496376 (RDP), AB180738 (Genbank). N4Lid 10.1601/nm.9378
- Flavobacterium hibernum*^{VP} McCammon et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51468. High-quality 16S rRNA sequence S000435923 (RDP), L39067 (Genbank). N4Lid DOI: 10.1601/nm.8093
- Flavobacterium hydatis*^{VP} Bernardet et al. 1996. <== *Cytophaga aquatilis* (basonym). Synonym links through N4Lid: 10.1601/ex.8274. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29551. High-quality 16S rRNA sequence S000436358 (RDP), M58764 (Genbank). N4Lid DOI: 10.1601/nm.8094
- † *Cytophaga aquatilis*^{AL} Strohl and Tait 1978. ==> *Flavobacterium hydatis* (new combination). Synonym links through N4Lid: 10.1601/ex.8274. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29551. High-quality 16S rRNA sequence S000436358 (RDP), M58764 (Genbank). N4Lid DOI: 10.1601/nm.8274
- Flavobacterium johnsoniae*^{VP} corrig. (Stanier 1947) Bernardet et al. 1996. <== *Cytophaga johnsoniae* (basonym). Synonym links through N4Lid: 10.1601/ex.8282. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17061. High-quality 16S rRNA sequence S000436431 (RDP), M59051 (Genbank). GOLD ID: Gi00942. GCAT ID: 001056_GCAT. Entrez genome id: 16082. Sequenced strain: ATCC 17061 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.8097
- † *Cytophaga johnsonae*^{AL} Stanier 1947. ==> *Flavobacterium johnsoniae* (new combination). Synonym links through N4Lid: 10.1601/ex.8282. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 17061. High-quality 16S rRNA sequence S000436431 (RDP), M59051 (Genbank). GOLD ID: Gi00942. GCAT ID: 001056_GCAT. Entrez genome id: 16082. Sequenced strain: ATCC 17061 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.8282
- Flavobacterium limicola*^{VP} Tamaki et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15094. High-quality 16S rRNA sequence S000121350 (RDP), AB075230 (Genbank). N4Lid DOI: 10.1601/nm.8098
- Flavobacterium micromati*^{VP} Van Trappen et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108161. High-quality 16S rRNA sequence S000263970 (RDP), AJ557888 (Genbank). N4Lid DOI: 10.1601/nm.8101
- Flavobacterium mizutaii*^{VP} (Yabuuchi et al. 1983) Holmes et al. 1988. <== *Sphingobacterium mizutaii* (basonym). Synonym links through N4Lid: 10.1601/ex.8228. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33299. High-quality 16S rRNA sequence S000436388 (RDP), M58796 (Genbank). N4Lid DOI: 10.1601/nm.8102

† *Spingobacterium mizutaii*^{VP} corrig. Yabuuchi et al. 1983. ==> *Flavobacterium mizutaii* (new combination). Synonym links through N4Lid: 10.1601/ex.8228. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33299. High-quality 16S rRNA sequence S000436388 (RDP), M58796 (Genbank). N4Lid DOI: 10.1601/nm.8228

Flavobacterium oceanosedimentum^{AL} Carty and Litchfield 1978. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 31317. N4Lid DOI: 10.1601/nm.8104

Flavobacterium omnivorum^{VP} Zhu et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 11313. High-quality 16S rRNA sequence S000394137 (RDP), AF433174 (Genbank). N4Lid DOI: 10.1601/nm.8107

Flavobacterium pectinovorum^{VP} (Reichenbach 1989) Bernardet et al. 1996. <== *Cytophaga pectinovora* (basonym). Synonym links through N4Lid: 10.1601/ex.8287. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19366. High-quality 16S rRNA sequence S000643553 (RDP), AM230490 (Genbank). N4Lid DOI: 10.1601/nm.8108

† *Cytophaga pectinovora*^{VP} (ex Dorey 1959) Reichenbach 1989. ==> *Flavobacterium pectinovorum* (new combination). Synonym links through N4Lid: 10.1601/ex.8287. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19366. High-quality 16S rRNA sequence S000643553 (RDP), AM230490 (Genbank). N4Lid DOI: 10.1601/nm.8287

Flavobacterium psychrolimnae^{VP} Van Trappen et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108326. High-quality 16S rRNA sequence S000539443 (RDP), AJ585428 (Genbank). N4Lid 10.1601/nm.9380

Flavobacterium psychrophilum^{VP} (Bernardet and Grimont 1989) Bernardet et al. 1996. <== *Flexibacter psychrophilus* (basonym). Synonym links through N4Lid: 10.1601/ex.8288. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49418. GOLD ID: Gi00252. GCAT ID: 001057_GCAT. Entrez genome id: 13227. Genome sequence is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.8109

† *Cytophaga psychrophila*^{VP} (ex Borg 1960) Reichenbach 1989. <== *Flexibacter psychrophilus* (basonym). *Flavobacterium psychrophilum* (new combination). Synonym links through N4Lid: 10.1601/ex.8288. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49418. N4Lid DOI: 10.1601/nm.8288

† *Flexibacter psychrophilus*^{VP} (ex Borg 1960) Bernardet and Grimont 1989. ==> *Cytophaga psychrophila* (new combination). Synonym links through N4Lid: 10.1601/ex.8288. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49418. N4Lid DOI: 10.1601/nm.8261

Flavobacterium resinovorum^{AL} Delaporte and Daste 1956. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33545. N4Lid DOI: 10.1601/nm.8110

† *Cytophaga saccharophila*^{VP} (ex Agbo and Moss 1979) Reichenbach 1989. ==> *Flavobacterium saccharophilum* (new combination). Synonym links through N4Lid: 10.1601/ex.8289. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49530. High-quality 16S rRNA sequence S000643554 (RDP), AM230491 (Genbank). N4Lid DOI: 10.1601/nm.8289

Flavobacterium saccharophilum^{VP} (Reichenbach 1989) Bernardet et al. 1996. <== *Cytophaga saccharophila* (basonym). Synonym links through N4Lid: 10.1601/ex.8289. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49530. High-quality 16S rRNA sequence S000643554 (RDP), AM230491 (Genbank). N4Lid DOI: 10.1601/nm.8111

Flavobacterium saliperosum^{VP} Wang et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 13331. High-quality 16S rRNA sequence S000541649 (RDP), DQ021903 (Genbank). N4Lid 10.1601/nm.9912

Flavobacterium segetis^{VP} Yi and Chun 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12385. High-quality 16S rRNA sequence S000573257 (RDP), AY581115 (Genbank). N4Lid DOI: 10.1601/nm.10116

- Flavobacterium soli*^{VP} Yoon et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108840. High-quality 16S rRNA sequence S000603878 (RDP), DQ178976 (Genbank). N4Lid DOI: 10.1601/nm.10061
- Flavobacterium succinicans*^{VP} (Reichenbach 1989) Bernardet et al. 1996. <== *Cytophaga succinicans* (basonym). Synonym links through N4Lid: 10.1601/ex.8291. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-619. High-quality 16S rRNA sequence S000643555 (RDP), AM230492 (Genbank). N4Lid DOI: 10.1601/nm.8115
- † *Cytophaga succinicans*^{VP} (ex Anderson and Ordal 1961) Reichenbach 1989. ==>
Flavobacterium succinicans (new combination). Synonym links through N4Lid: 10.1601/ex.8291. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-619. High-quality 16S rRNA sequence S000643555 (RDP), AM230492 (Genbank). N4Lid DOI: 10.1601/nm.8291
- Flavobacterium suncheonense*^{VP} Kim et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17707. N4Lid DOI: 10.1601/nm.10178
- Flavobacterium tegetincola*^{VP} McCammon and Bowman 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ACAM 602. N4Lid DOI: 10.1601/nm.8116
- Flavobacterium thermophilum*^{VP} Loginova and Egorova 1982. Source of type material recommended for DOE sponsored genome sequencing by the JGI: VKM 1325. N4Lid DOI: 10.1601/nm.8118
- Flavobacterium weaverense*^{VP} Yi and Chun 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12384. High-quality 16S rRNA sequence S000573256 (RDP), AY581114 (Genbank). N4Lid DOI: 10.1601/nm.10115
- Flavobacterium xanthum*^{VP} (ex Inoue and Komagata 1976) McCammon and Bowman 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: IFO 14972. High-quality 16S rRNA sequence S000427861 (RDP), AF030380 (Genbank). N4Lid DOI: 10.1601/nm.8120
- Flavobacterium xinjiangense*^{VP} Zhu et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 11314. High-quality 16S rRNA sequence S000394136 (RDP), AF433173 (Genbank). N4Lid DOI: 10.1601/nm.8121
- Genus *Aequorivita***^{VP} Bowman and Nichols 2002. N4Lid DOI: 10.1601/nm.8123
- Aequorivita antarctica*^{VP} Bowman and Nichols 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14231. High-quality 16S rRNA sequence S000434562 (RDP), AY027802 (Genbank). N4Lid DOI: 10.1601/nm.8124
- Aequorivita crocea*^{VP} Bowman and Nichols 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14293. High-quality 16S rRNA sequence S000434566 (RDP), AY027806 (Genbank). N4Lid DOI: 10.1601/nm.8125
- Aequorivita lipolytica*^{VP} Bowman and Nichols 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14236. High-quality 16S rRNA sequence S000434565 (RDP), AY027805 (Genbank). N4Lid DOI: 10.1601/nm.8126
- Aequorivita sublithincola*^{VP} Bowman and Nichols 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14238. High-quality 16S rRNA sequence S000388543 (RDP), AF170749 (Genbank). N4Lid DOI: 10.1601/nm.8127
- Genus *Algibacter***^{VP} Nedashkovskaya et al. 2004. N4Lid DOI: 10.1601/nm.8447
- Algibacter lectus*^{VP} Nedashkovskaya et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15365. High-quality 16S rRNA sequence S000500418 (RDP), AY187689 (Genbank). N4Lid DOI: 10.1601/nm.8448
- Genus *Arenibacter***^{VP} Ivanova et al. 2001. N4Lid DOI: 10.1601/nm.8128
- Arenibacter latericius*^{VP} Ivanova et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 106861. High-quality 16S rRNA sequence S000428099 (RDP), AF052742 (Genbank). N4Lid DOI: 10.1601/nm.8129
- Arenibacter certesii*^{VP} Nedashkovskaya et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 48006. High-quality 16S rRNA sequence S000368220 (RDP), AY271622 (Genbank). N4Lid DOI: 10.1601/nm.8475

Arenibacter palladensis^{VP} Nedashkovskaya et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108849. High-quality 16S rRNA sequence S000530909 (RDP), AJ575643 (Genbank). N4Lid 10.1601/nm.9856

Arenibacter troitsensis^{VP} Nedashkovskaya et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 11736. High-quality 16S rRNA sequence S000384841 (RDP), AB080771 (Genbank). N4Lid DOI: 10.1601/nm.8130

Genus *Bergeyella*^{VP} Vandamme et al. 1994. N4Lid DOI: 10.1601/nm.8131

Bergeyella zoohelcum^{VP} (Holmes et al. 1987) Vandamme et al. 1994. <== *Weeksellia zoohelcum* (basonym). Synonym links through N4Lid: 10.1601/ex.8204. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43767. High-quality 16S rRNA sequence S000436903 (RDP), M93153 (Genbank). N4Lid DOI: 10.1601/nm.8132

† *Weeksellia zoohelcum*^{VP} Holmes et al. 1987. ==> *Bergeyella zoohelcum* (new combination). Synonym links through N4Lid: 10.1601/ex.8204. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43767. High-quality 16S rRNA sequence S000436903 (RDP), M93153 (Genbank). N4Lid DOI: 10.1601/nm.8204

Genus *Bizionia*^{VP} Nedashkovskaya et al. 2005. N4Lid DOI: 10.1601/nm.8512

Bizionia paragorgiae^{VP} Nedashkovskaya et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22571. High-quality 16S rRNA sequence S000475776 (RDP), AY651070 (Genbank). N4Lid DOI: 10.1601/nm.8513

Bizionia algorithergicola^{VP} Bowman and Nichols 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108533. High-quality 16S rRNA sequence S000574865 (RDP), AY694003 (Genbank). N4Lid 10.1601/nm.9549

Bizionia gelidisalsuginis^{VP} Bowman and Nichols 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108536. High-quality 16S rRNA sequence S000574866 (RDP), AY694004 (Genbank). N4Lid 10.1601/nm.9548

Bizionia myxarmorum^{VP} Bowman and Nichols 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108535. High-quality 16S rRNA sequence S000574864 (RDP), AY694002 (Genbank). N4Lid 10.1601/nm.9550

Bizionia saleffrena^{VP} Bowman and Nichols 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108534. High-quality 16S rRNA sequence S000574867 (RDP), AY694005 (Genbank). N4Lid 10.1601/nm.9547

Genus *Capnocytophaga*^{VP} Leadbetter et al. 1982. N4Lid DOI: 10.1601/nm.8133

Capnocytophaga ochracea^{VP} (Prévot et al. 1956) Leadbetter et al. 1982. <== *Bacteroides ochraceus* (basonym). Synonym links through N4Lid: 10.1601/ex.7969. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27872. High-quality 16S rRNA sequence S000437593 (RDP), U41350 (Genbank). N4Lid DOI: 10.1601/nm.8134

† *Bacteroides ochraceus*^{AL} (Prévot et al. 1956) Holdeman and Moore 1972. ==> *Capnocytophaga ochracea* (new combination). Synonym links through N4Lid: 10.1601/ex.7969. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27872. High-quality 16S rRNA sequence S000437593 (RDP), U41350 (Genbank). N4Lid DOI: 10.1601/nm.7969

Capnocytophaga canimorsus^{VP} Brenner et al. 1990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35979. High-quality 16S rRNA sequence S000414438 (RDP), L14637 (Genbank). N4Lid DOI: 10.1601/nm.8135

Capnocytophaga cynodegmi^{VP} Brenner et al. 1990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49044. High-quality 16S rRNA sequence S000001064 (RDP), X97245 (Genbank). N4Lid DOI: 10.1601/nm.8136

Capnocytophaga gingivalis^{VP} Leadbetter et al. 1982. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33624. High-quality 16S rRNA sequence S000000218 (RDP), X67608 (Genbank). N4Lid DOI: 10.1601/nm.8137

Capnocytophaga granulosa^{VP} Yamamoto et al. 1994. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51502. High-quality 16S rRNA sequence S000002540 (RDP), X97248 (Genbank). N4Lid DOI: 10.1601/nm.8138

Capnocytophaga haemolytica^{VP} Yamamoto et al. 1994. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51501. High-quality 16S rRNA sequence S000003709 (RDP), X97247 (Genbank). N4Lid DOI: 10.1601/nm.8139

Capnocytophaga sputigena^{VP} Leadbetter et al. 1982. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33612. High-quality 16S rRNA sequence S000022403 (RDP), X67609 (Genbank). N4Lid DOI: 10.1601/nm.8140

Genus *Cellulophaga*^{VP} Johansen et al. 1999. GOLD ID: Gi00837. GCAT ID: 000850_GCAT. Entrez genome id: 13544. Sequenced strain: MED134 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.8141

Cellulophaga lytica^{VP} (Lewin 1969) Johansen et al. 1999. <== *Cytophaga lytica* (basonym). Synonym links through N4Lid: 10.1601/ex.8284. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23178. High-quality 16S rRNA sequence S000439306 (RDP), D12666 (Genbank). N4Lid DOI: 10.1601/nm.8142

† *Cytophaga lytica*^{AL} Lewin 1969. ==> *Cellulophaga lytica* (new combination). Synonym links through N4Lid: 10.1601/ex.8284. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23178. High-quality 16S rRNA sequence S000439306 (RDP), D12666 (Genbank). N4Lid DOI: 10.1601/nm.8284

Cellulophaga algicola^{VP} Bowman 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ACAM 630. High-quality 16S rRNA sequence S000386854 (RDP), AF001366 (Genbank). N4Lid DOI: 10.1601/nm.8143

Cellulophaga baltica^{VP} Johansen et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700862. High-quality 16S rRNA sequence S000022753 (RDP), AJ005972 (Genbank). N4Lid DOI: 10.1601/nm.8144

Cellulophaga fucicola^{VP} Johansen et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700863. High-quality 16S rRNA sequence S000019609 (RDP), AJ005973 (Genbank). N4Lid DOI: 10.1601/nm.8145

Cellulophaga pacifica^{VP} Nedashkovskaya et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 11735. High-quality 16S rRNA sequence S000277252 (RDP), AB100840 (Genbank). N4Lid DOI: 10.1601/nm.8146

Genus *Chryseobacterium*^{VP} Vandamme et al. 1994. N4Lid DOI: 10.1601/nm.8147

Chryseobacterium gleum^{VP} (Holmes et al. 1984) Vandamme et al. 1994. <== *Flavobacterium gleum* (basonym). Synonym links through N4Lid: 10.1601/ex.8089. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35910. High-quality 16S rRNA sequence S000436366 (RDP), M58772 (Genbank). N4Lid DOI: 10.1601/nm.8148

† *Flavobacterium gleum*^{VP} Holmes et al. 1984. ==> *Chryseobacterium gleum* (new combination). Synonym links through N4Lid: 10.1601/ex.8089. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35910. High-quality 16S rRNA sequence S000436366 (RDP), M58772 (Genbank). N4Lid DOI: 10.1601/nm.8089

Chryseobacterium balustinum^{VP} (Harrison 1929) Vandamme et al. 1994. <== *Flavobacterium balustinum* (basonym). Synonym links through N4Lid: 10.1601/ex.8075. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33487. High-quality 16S rRNA sequence S000436365 (RDP), M58771 (Genbank). N4Lid DOI: 10.1601/nm.8149

† *Flavobacterium balustinum*^{AL} Harrison 1929. ==> *Chryseobacterium balustinum* (new combination). Synonym links through N4Lid: 10.1601/ex.8075. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33487. High-quality 16S rRNA sequence S000436365 (RDP), M58771 (Genbank). N4Lid DOI: 10.1601/nm.8075

Chryseobacterium daecheongense^{VP} Kim et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15235. High-quality 16S rRNA sequence S000470977 (RDP), AJ457206 (Genbank). N4Lid DOI: 10.1601/nm.8542

Chryseobacterium defluvii^{VP} Kämpfer et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14219. High-quality 16S rRNA sequence S000115513 (RDP), AJ309324 (Genbank). N4Lid DOI: 10.1601/nm.8150

Chryseobacterium formosense^{VP} Young et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 49271. High-quality 16S rRNA sequence S000352767 (RDP), AJ715377 (Genbank). N4Lid DOI: 10.1601/nm.8543

Chryseobacterium hispanicum^{VP} Gallego et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 13554. High-quality 16S rRNA sequence S000643289 (RDP), AM159183 (Genbank). N4Lid DOI: 10.1601/nm.10173

Chryseobacterium indologenes^{VP} (Yabuuchi et al. 1983) Vandamme et al. 1994. <==
Flavobacterium indologenes (basonym). Synonym links through N4Lid: 10.1601/ex.8095. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29897. High-quality 16S rRNA sequence S000436367 (RDP), M58773 (Genbank). N4Lid DOI: 10.1601/nm.8151

† *Flavobacterium indologenes*^{VP} Yabuuchi et al. 1983. ==> *Chryseobacterium indologenes* (new combination). Synonym links through N4Lid: 10.1601/ex.8095. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29897. High-quality 16S rRNA sequence S000436367 (RDP), M58773 (Genbank). N4Lid DOI: 10.1601/nm.8095

Chryseobacterium indoltheticum^{VP} (Campbell and Williams 1951) Vandamme et al. 1994. <==
Flavobacterium indoltheticum (basonym). Synonym links through N4Lid: 10.1601/ex.8096. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27950. High-quality 16S rRNA sequence S000436368 (RDP), M58774 (Genbank). N4Lid DOI: 10.1601/nm.8152

† *Flavobacterium indoltheticum*^{AL} Campbell and Williams 1951. ==> *Chryseobacterium indoltheticum* (new combination). Synonym links through N4Lid: 10.1601/ex.8096. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27950. High-quality 16S rRNA sequence S000436368 (RDP), M58774 (Genbank). N4Lid DOI: 10.1601/nm.8096

Chryseobacterium joostei^{VP} Hugo et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 46665. High-quality 16S rRNA sequence S000134119 (RDP), AJ271010 (Genbank). N4Lid DOI: 10.1601/nm.8153

Chryseobacterium piscium^{VP} de Beer et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 51923. High-quality 16S rRNA sequence S000544650 (RDP), AM040439 (Genbank). N4Lid DOI: 10.1601/nm.10121

Chryseobacterium scophthalmum^{VP} (Mudarris et al. 1994) Vandamme et al. 1994. <==
Flavobacterium scophthalmum (basonym). Synonym links through N4Lid: 10.1601/ex.8113. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700039. High-quality 16S rRNA sequence S000134386 (RDP), AJ271009 (Genbank). N4Lid DOI: 10.1601/nm.8156

† *Flavobacterium scophthalmum*^{VP} Mudarris et al. 1994. ==> *Chryseobacterium scophthalmum* (new combination). Synonym links through N4Lid: 10.1601/ex.8113. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700039. High-quality 16S rRNA sequence S000134386 (RDP), AJ271009 (Genbank). N4Lid DOI: 10.1601/nm.8113

Chryseobacterium shigense^{VP} Shimomura et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17126. High-quality 16S rRNA sequence S000469874 (RDP), AB193101 (Genbank). N4Lid 10.1601/nm.9642

Chryseobacterium soldanellicola^{VP} Park et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: KCTC 12382. High-quality 16S rRNA sequence S000618541 (RDP), AY883415 (Genbank). N4Lid 10.1601/nm.9910

Chryseobacterium taeanense^{VP} Park et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: KCTC 12381. High-quality 16S rRNA sequence S000618542 (RDP), AY883416 (Genbank). N4Lid 10.1601/nm.9911

Chryseobacterium taichungense^{VP} Shen et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 50001. High-quality 16S rRNA sequence S000539653 (RDP), AJ843132 (Genbank). N4Lid 10.1601/nm.9467

Chryseobacterium taiwanense^{VP} Tai et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 23355. High-quality 16S rRNA sequence S000636389 (RDP), DQ318789 (Genbank). N4Lid DOI: 10.1601/nm.10254

Chryseobacterium vrystaatense^{VP} de Beer et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 50970. High-quality 16S rRNA sequence S000484366 (RDP), AJ871397 (Genbank). N4Lid 10.1601/nm.9646

- Chryseobacterium wanjuae*^{VP} Weon et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17724. High-quality 16S rRNA sequence S000620619 (RDP), DQ256729 (Genbank). N4Lid DOI: 10.1601/nm.10171
- Genus *Cloacibacterium***^{VP} Allen et al. 2006. N4Lid DOI: 10.1601/nm.10120
- Cloacibacterium normanense*^{VP} Allen et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-825. High-quality 16S rRNA sequence S000628740 (RDP), AJ575430 (Genbank). N4Lid DOI: 10.1601/nm.10119
- Genus *Coenonia***^{VP} Vandamme et al. 1999. N4Lid DOI: 10.1601/nm.8157
- Coenonia anatina*^{VP} Vandamme et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 106119. High-quality 16S rRNA sequence S000000215 (RDP), Y17612 (Genbank). N4Lid DOI: 10.1601/nm.8158
- Genus *Croceibacter***^{VP} Cho and Giovannoni 2003. N4Lid DOI: 10.1601/nm.8159
- Croceibacter atlanticus*^{VP} Cho and Giovannoni 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-628. High-quality 16S rRNA sequence S000399055 (RDP), AY163576 (Genbank). GOLD ID: Gi00838. GCAT ID: 000988_GCAT. Entrez genome id: 13570. Sequenced strain: HTCC 2559 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.8160
- Genus *Costertonia***^{VP} Kwon et al. 2006. N4Lid DOI: 10.1601/nm.10123
- Costertonia aggregata*^{VP} Kwon et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 13411. High-quality 16S rRNA sequence S000600404 (RDP), DQ167246 (Genbank). N4Lid DOI: 10.1601/nm.10122
- Genus *Dokdonia***^{VP} Yoon et al. 2005. N4Lid 10.1601/nm.9754
- Dokdonia donghaensis*^{VP} Yoon et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17200. High-quality 16S rRNA sequence S000541404 (RDP), DQ003276 (Genbank). N4Lid 10.1601/nm.9753
- Genus *Donghaeana***^{VP} Yoon et al. 2006. N4Lid 10.1601/nm.9865
- Donghaeana dokdonensis*^{VP} Yoon et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17205. High-quality 16S rRNA sequence S000541404 (RDP), DQ003276 (Genbank). N4Lid 10.1601/nm.9864
- Genus *Elizabethkingia***^{VP} Kim et al. 2005. N4Lid 10.1601/nm.9465
- Elizabethkingia meningoseptica*^{VP} (King 1959) Kim et al. 2005. <== *Flavobacterium meningosepticum* (basonym). Synonym links through N4Lid: 10.1601/ex.8100. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13253. High-quality 16S rRNA sequence S000539540 (RDP), AJ704540 (Genbank). N4Lid 10.1601/nm.9258
- † *Chryseobacterium meningosepticum*^{VP} (King 1959) Vandamme et al. 1994. <== *Flavobacterium meningosepticum* (basonym). *Elizabethkingia meningoseptica* (new combination). Synonym links through N4Lid: 10.1601/ex.8100. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13253. High-quality 16S rRNA sequence S000539540 (RDP), AJ704540 (Genbank). N4Lid DOI: 10.1601/nm.8154
- Elizabethkingia miricola*^{VP} (Li et al. 2004) Kim et al. 2005. <== *Chryseobacterium miricola* (basonym). Synonym links through N4Lid: 10.1601/ex.8155. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14571. N4Lid 10.1601/nm.9278
- † *Chryseobacterium miricola*^{VP} Li et al. 2004. ==> *Elizabethkingia miricola* (new combination). Synonym links through N4Lid: 10.1601/ex.8155. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14571. N4Lid DOI: 10.1601/nm.8155
- † *Flavobacterium meningosepticum*^{AL} King 1959. ==> *Chryseobacterium meningosepticum* (new combination). Synonym links through N4Lid: 10.1601/ex.8100. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13253. High-quality 16S rRNA sequence S000539540 (RDP), AJ704540 (Genbank). N4Lid DOI: 10.1601/nm.8100
- Genus *Empedobacter***^{VP} (ex Prévot 1961) Vandamme et al. 1994. N4Lid DOI: 10.1601/nm.8161

Empedobacter brevis^{VP} (Holmes and Owen 1982) Vandamme et al. 1994. <== *Flavobacterium breve* (basonym). Synonym links through N4Lid: 10.1601/ex.8077. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43319. High-quality 16S rRNA sequence S000623902 (RDP), AM177497 (Genbank). N4Lid DOI: 10.1601/nm.8162

† *Flavobacterium breve*^{VP} (ex Lustig 1890) Holmes and Owen 1982. ==> *Empedobacter brevis* (new combination). Synonym links through N4Lid: 10.1601/ex.8077. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43319. High-quality 16S rRNA sequence S000623902 (RDP), AM177497 (Genbank). N4Lid DOI: 10.1601/nm.8077

Genus *Epilithonimonas*^{VP} O'Sullivan et al. 2006. N4Lid 10.1601/nm.9859

Epilithonimonas tenax^{VP} O'Sullivan et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16811. High-quality 16S rRNA sequence S000007528 (RDP), AF493696 (Genbank). N4Lid 10.1601/nm.9858

Genus *Formosa*^{VP} Ivanova et al. 2004. N4Lid DOI: 10.1601/nm.8583

Formosa algae^{VP} Ivanova et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 107684. High-quality 16S rRNA sequence S000356926 (RDP), AY228461 (Genbank). N4Lid DOI: 10.1601/nm.8584

Formosa agariphila^{VP} Nedashkovskaya et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15362. High-quality 16S rRNA sequence S000500417 (RDP), AY187688 (Genbank). N4Lid 10.1601/nm.9857

Genus *Gaetbulibacter*^{VP} Jung et al. 2005. N4Lid 10.1601/nm.9641

Gaetbulibacter saemankumensis^{VP} Jung et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17032. High-quality 16S rRNA sequence S000481927 (RDP), AY883937 (Genbank). N4Lid 10.1601/nm.9640

Genus *Gelidibacter*^{VP} Bowman et al. 1997. N4Lid DOI: 10.1601/nm.8163

Gelidibacter algens^{VP} Bowman et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700364. High-quality 16S rRNA sequence S000438031 (RDP), U62914 (Genbank). N4Lid DOI: 10.1601/nm.8164

Gelidibacter gilvus^{VP} Bowman and Nichols 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108531. High-quality 16S rRNA sequence S000365664 (RDP), AF001369 (Genbank). N4Lid 10.1601/nm.9551

Gelidibacter mesophilus^{VP} Macián et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-813. High-quality 16S rRNA sequence S000083693 (RDP), AJ344133 (Genbank). N4Lid DOI: 10.1601/nm.8165

Gelidibacter salicanalis^{VP} Bowman and Nichols 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108532. High-quality 16S rRNA sequence S000574871 (RDP), AY694009 (Genbank). N4Lid 10.1601/nm.9552

Genus *Gillisia*^{VP} Van Trappen et al. 2004. N4Lid DOI: 10.1601/nm.8166

Gillisia hiemivivida^{VP} Bowman and Nichols 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108528. High-quality 16S rRNA sequence S000574868 (RDP), AY694006 (Genbank). N4Lid 10.1601/nm.9555

Gillisia illustrilutea^{VP} Bowman and Nichols 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108530. High-quality 16S rRNA sequence S000574870 (RDP), AY694008 (Genbank). N4Lid 10.1601/nm.9553

Gillisia limnaea^{VP} Van Trappen et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15749. High-quality 16S rRNA sequence S000276451 (RDP), AJ440991 (Genbank). N4Lid DOI: 10.1601/nm.8167

Gillisia mitskevichiae^{VP} Nedashkovskaya et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NBRC 100590. High-quality 16S rRNA sequence S000475293 (RDP), AY576655 (Genbank). N4Lid DOI: 10.1601/nm.8592

Gillisia myxillae^{VP} Lee et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NRRL B-41416. High-quality 16S rRNA sequence S000613911 (RDP), DQ202393 (Genbank). N4Lid DOI: 10.1601/nm.10258

- Gillisia sandarakina*^{VP} Bowman and Nichols 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108529. High-quality 16S rRNA sequence S000574869 (RDP), AY694007 (Genbank). N4Lid 10.1601/nm.9554
- Genus *Gramella***^{VP} Nedashkovskaya et al. 2005. N4Lid DOI: 10.1601/nm.8597
- Gramella echinicola*^{VP} Nedashkovskaya et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NBRC 100593. High-quality 16S rRNA sequence S000475575 (RDP), AY608409 (Genbank). N4Lid DOI: 10.1601/nm.8598
- Gramella portivictoriae*^{VP} Lau et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NRRL B-41137. High-quality 16S rRNA sequence S000541380 (RDP), DQ002871 (Genbank). N4Lid 10.1601/nm.9758
- Genus *Kaistella***^{VP} Kim et al. 2004. N4Lid 10.1601/nm.8633
- Kaistella koreensis*^{VP} Kim et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: IAM 15050. High-quality 16S rRNA sequence S000458552 (RDP), AF344179 (Genbank). N4Lid 10.1601/nm.8634
- Genus *Kordia***^{VP} Sohn et al. 2004. N4Lid 10.1601/nm.8648
- Kordia algicida*^{VP} Sohn et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NBRC 100336. High-quality 16S rRNA sequence S000356564 (RDP), AY195836 (Genbank). GOLD ID: Gi01417. GCAT ID: 000881_GCAT. Sequenced strain: OT-1 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid 10.1601/nm.8649
- Genus *Krokinobacter***^{VP} Khan et al. 2006. N4Lid 10.1601/nm.9907
- Krokinobacter diaphorus*^{VP} Khan et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108745. High-quality 16S rRNA sequence S000606688 (RDP), AB198088 (Genbank). N4Lid 10.1601/nm.9909
- Krokinobacter eikastus*^{VP} Khan et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108743. High-quality 16S rRNA sequence S000606689 (RDP), AB198089 (Genbank). N4Lid 10.1601/nm.9908
- Krokinobacter genikus*^{VP} Khan et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108744. High-quality 16S rRNA sequence S000606686 (RDP), AB198086 (Genbank). N4Lid 10.1601/nm.9906
- Genus *Lacinutrix***^{VP} Bowman and Nichols 2005. N4Lid 10.1601/nm.9546
- Lacinutrix copepodicola*^{VP} Bowman and Nichols 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108538. High-quality 16S rRNA sequence S000574863 (RDP), AY694001 (Genbank). N4Lid 10.1601/nm.9545
- Genus *Lutibacter***^{VP} Choi and Cho 2006. N4Lid DOI: 10.1601/nm.10006
- Lutibacter litoralis*^{VP} Choi and Cho 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 13034. High-quality 16S rRNA sequence S000515802 (RDP), AY962293 (Genbank). N4Lid DOI: 10.1601/nm.10005
- Genus *Maribacter***^{VP} Nedashkovskaya et al. 2004. N4Lid 10.1601/nm.8680
- Maribacter sedimenticola*^{VP} Nedashkovskaya et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 47098. High-quality 16S rRNA sequence S000368221 (RDP), AY271623 (Genbank). N4Lid 10.1601/nm.8683
- Maribacter dokdonensis*^{VP} Yoon et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17201. High-quality 16S rRNA sequence S000515715 (RDP), AY960749 (Genbank). N4Lid 10.1601/nm.9643
- Maribacter orientalis*^{VP} Nedashkovskaya et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 48008. High-quality 16S rRNA sequence S000368222 (RDP), AY271624 (Genbank). N4Lid 10.1601/nm.8682
- Maribacter aquivivus*^{VP} Nedashkovskaya et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 48009. High-quality 16S rRNA sequence S000368223 (RDP), AY271625 (Genbank). N4Lid 10.1601/nm.8681
- Maribacter ulvicola*^{VP} Nedashkovskaya et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15366. High-quality 16S rRNA sequence S000368224 (RDP), AY271626 (Genbank). N4Lid 10.1601/nm.8684

- Genus *Mariniflexile*** ^{VP} Nedashkovskaya et al. 2006. N4Lid DOI: 10.1601/nm.10175
Mariniflexile gromovii ^{VP} Nedashkovskaya et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22578. High-quality 16S rRNA sequence S000635946 (RDP), DQ312294 (Genbank). N4Lid DOI: 10.1601/nm.10174
- Genus *Mesonia*** ^{VP} Nedashkovskaya et al. 2003. N4Lid DOI: 10.1601/nm.8168
Mesonia algae ^{VP} Nedashkovskaya et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 47092. High-quality 16S rRNA sequence S000432054 (RDP), AF536383 (Genbank). N4Lid DOI: 10.1601/nm.8169
- Genus *Muricauda*** ^{VP} Bruns et al. 2001. N4Lid DOI: 10.1601/nm.8170
Muricauda ruestringensis ^{VP} Bruns et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13258. High-quality 16S rRNA sequence S000389346 (RDP), AF218782 (Genbank). N4Lid DOI: 10.1601/nm.8171
Muricauda aquimarina ^{VP} Yoon et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 11811. High-quality 16S rRNA sequence S000540543 (RDP), AY445075 (Genbank). N4Lid 10.1601/nm.9454
Muricauda flavescens ^{VP} Yoon et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 11812. High-quality 16S rRNA sequence S000540541 (RDP), AY445073 (Genbank). N4Lid 10.1601/nm.9453
- Genus *Myroides*** ^{VP} Vancanneyt et al. 1996. N4Lid DOI: 10.1601/nm.8172
Myroides odoratus ^{VP} (Stutzer 1929) Vancanneyt et al. 1996. <== *Flavobacterium odoratum* (**basonym**). Synonym links through N4Lid: 10.1601/ex.8105. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 4651. High-quality 16S rRNA sequence S000436371 (RDP), M58777 (Genbank). N4Lid DOI: 10.1601/nm.8173
† *Flavobacterium odoratum* ^{AL} Stutzer 1929. ==> *Myroides odoratus* (**new combination**). Synonym links through N4Lid: 10.1601/ex.8105. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 4651. High-quality 16S rRNA sequence S000436371 (RDP), M58777 (Genbank). N4Lid DOI: 10.1601/nm.8105
Myroides odoratimimus ^{VP} Vancanneyt et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-634. High-quality 16S rRNA sequence S000440832 (RDP), AJ854059 (Genbank). N4Lid DOI: 10.1601/nm.8174
Myroides pelagicus ^{VP} Yoon et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: KCTC 12661. High-quality 16S rRNA sequence S000543031 (RDP), AB176662 (Genbank). N4Lid DOI: 10.1601/nm.10263
- Genus *Nonlabens*** ^{VP} Lau et al. 2005. N4Lid 10.1601/nm.9749
Nonlabens tegetincola ^{VP} Lau et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NRRL B-41136. High-quality 16S rRNA sequence S000527995 (RDP), AY987349 (Genbank). N4Lid 10.1601/nm.9808
- Genus *Olleya*** ^{VP} Mancuso Nichols et al. 2005. N4Lid 10.1601/nm.9560
Olleya marilimosa ^{VP} Mancuso Nichols et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108537. High-quality 16S rRNA sequence S000573281 (RDP), AY586527 (Genbank). N4Lid 10.1601/nm.9559
- Genus *Ornithobacterium*** ^{VP} Vandamme et al. 1994. N4Lid DOI: 10.1601/nm.8175
Ornithobacterium rhinotracheale ^{VP} Vandamme et al. 1994. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51463. High-quality 16S rRNA sequence S000414485 (RDP), L19156 (Genbank). N4Lid DOI: 10.1601/nm.8176
- Genus *Persicivirga*** ^{VP} O'Sullivan et al. 2006. N4Lid 10.1601/nm.9861
Persicivirga xylanidelens ^{VP} O'Sullivan et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16809. High-quality 16S rRNA sequence S000500088 (RDP), AF493688 (Genbank). N4Lid 10.1601/nm.9860
- Genus *Pibocella*** ^{VP} Nedashkovskaya et al. 2005. N4Lid 10.1601/nm.8780
Pibocella ponti ^{VP} Nedashkovskaya et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NBRC 100591. High-quality 16S rRNA sequence S000475292 (RDP), AY576654 (Genbank). N4Lid 10.1601/nm.8781

Genus *Polaribacter* ^{VP} Gosink et al. 1998. N4Lid DOI: 10.1601/nm.8177

Polaribacter filamentus ^{VP} Gosink et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700397. High-quality 16S rRNA sequence S000438413 (RDP), U73726 (Genbank). GOLD ID: Gi00476. GCAT ID: 001364_GCAT. Entrez genome id: 13335. Genome sequence is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.8178

Polaribacter butkevichii ^{VP} Nedashkovskaya et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 48005. High-quality 16S rRNA sequence S000435483 (RDP), AY189722 (Genbank). N4Lid DOI: 10.1601/nm.10200

Polaribacter dokdonensis ^{VP} Yoon et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17204. High-quality 16S rRNA sequence S000541413 (RDP), DQ004686 (Genbank). N4Lid DOI: 10.1601/nm.10117

Polaribacter franzmannii ^{VP} Gosink et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700399. High-quality 16S rRNA sequence S000437169 (RDP), U14586 (Genbank). N4Lid DOI: 10.1601/nm.8179

Polaribacter glomeratus ^{VP} (McGuire et al. 1988) Gosink et al. 1998. <== *Flectobacillus glomeratus* (basonym). Synonym links through N4Lid: 10.1601/ex.8298. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43844. High-quality 16S rRNA sequence S000436369 (RDP), M58775 (Genbank). N4Lid DOI: 10.1601/nm.8180

† *Flectobacillus glomeratus* ^{VP} McGuire et al. 1988. ==> *Polaribacter glomeratus* (new combination). Synonym links through N4Lid: 10.1601/ex.8298. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43844. High-quality 16S rRNA sequence S000436369 (RDP), M58775 (Genbank). N4Lid DOI: 10.1601/nm.8298

Polaribacter irgensii ^{VP} Gosink et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700398. GOLD ID: Gi00871. GCAT ID: 001365_GCAT. Entrez genome id: 13451. Sequenced strain: ATCC 700398 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.8181

Genus *Psychroflexus* ^{VP} Bowman et al. 1999. N4Lid DOI: 10.1601/nm.8182

Psychroflexus torquis ^{VP} Bowman et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700755. High-quality 16S rRNA sequence S000438597 (RDP), U85881 (Genbank). GOLD ID: Gi00877. GCAT ID: 001395_GCAT. Entrez genome id: 13542. Sequenced strain: ATCC 700755 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.8183

Psychroflexus gondwanensis ^{VP} corrig. (Dobson et al. 1993) Bowman et al. 1999. <== *Flavobacterium gondwanense* (basonym). Synonym links through N4Lid: 10.1601/ex.8090. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51278. High-quality 16S rRNA sequence S000436881 (RDP), M92278 (Genbank). N4Lid DOI: 10.1601/nm.8184

† *Flavobacterium gondwanense* ^{VP} Dobson et al. 1993. ==> *Psychroflexus gondwanensis* (new combination). Synonym links through N4Lid: 10.1601/ex.8090. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51278. High-quality 16S rRNA sequence S000436881 (RDP), M92278 (Genbank). N4Lid DOI: 10.1601/nm.8090

Psychroflexus tropicus ^{VP} Donachie et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-734. High-quality 16S rRNA sequence S000539209 (RDP), AF513434 (Genbank). N4Lid 10.1601/nm.8807

Genus *Psychroserpens* ^{VP} Bowman et al. 1997. N4Lid DOI: 10.1601/nm.8185

Psychroserpens burtonensis ^{VP} Bowman et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700359. High-quality 16S rRNA sequence S000438030 (RDP), U62913 (Genbank). N4Lid DOI: 10.1601/nm.8186

Psychroserpens mesophilus ^{VP} Kwon et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 13413. High-quality 16S rRNA sequence S000541367 (RDP), DQ001321 (Genbank). N4Lid DOI: 10.1601/nm.10062

Genus *Riemerella* ^{VP} Segers et al. 1993. N4Lid DOI: 10.1601/nm.8187

Riemerella anatipestifer^{VP} (Hendrickson and Hilbert 1932) Segers et al. 1993. <== *Moraxella anatipestifer* (basonym). Synonym links through N4Lid: 10.1601/ex.2748. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11845. High-quality 16S rRNA sequence S000437981 (RDP), U60101 (Genbank). N4Lid DOI: 10.1601/nm.8188

† *Moraxella anatipestifer*^{AL} (Hendrickson and Hilbert 1932) Bruner and Fabricant 1954. ==> *Riemerella anatipestifer* (new combination). Synonym links through N4Lid: 10.1601/ex.2748. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 11845. High-quality 16S rRNA sequence S000437981 (RDP), U60101 (Genbank). N4Lid DOI: 10.1601/nm.2748

Riemerella columbina^{VP} Vancanneyt et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 106288. High-quality 16S rRNA sequence S000021400 (RDP), AF181448 (Genbank). N4Lid DOI: 10.1601/nm.8189

Genus *Robiginitalea*^{VP} Cho and Giovannoni 2004. N4Lid 10.1601/nm.8816

Robiginitalea biformata^{VP} Cho and Giovannoni 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-864. High-quality 16S rRNA sequence S000368745 (RDP), AY424899 (Genbank). GOLD ID: Gi00880. GCAT ID: 001428_GCAT. Entrez genome id: 13461. Sequenced strain: HTCC 2501 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid 10.1601/nm.8817

Genus *Salegentibacter*^{VP} McCammon and Bowman 2000. N4Lid DOI: 10.1601/nm.8190

Salegentibacter salegens^{VP} (Dobson et al. 1993) McCammon and Bowman 2000. <== *Flavobacterium salegens* (basonym). Synonym links through N4Lid: 10.1601/ex.8112. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51522. High-quality 16S rRNA sequence S000436882 (RDP), M92279 (Genbank). N4Lid DOI: 10.1601/nm.8191

† *Flavobacterium salegens*^{VP} Dobson et al. 1993. ==> *Salegentibacter salegens* (new combination). Synonym links through N4Lid: 10.1601/ex.8112. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51522. High-quality 16S rRNA sequence S000436882 (RDP), M92279 (Genbank). N4Lid DOI: 10.1601/nm.8112

Genus *Sandarakinotalea*^{VP} Khan et al. 2006. N4Lid DOI: 10.1601/nm.10058

Sandarakinotalea sediminis^{VP} Khan et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 23247. High-quality 16S rRNA sequence S000690385 (RDP), AB206954 (Genbank). N4Lid DOI: 10.1601/nm.10057

Genus *Sediminicola*^{VP} Khan et al. 2006. N4Lid DOI: 10.1601/nm.10009

Sediminicola luteus^{VP} Khan et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 23246. High-quality 16S rRNA sequence S000616212 (RDP), AB206956 (Genbank). N4Lid DOI: 10.1601/nm.10008

Salegentibacter agarivorans^{VP} Nedashkovskaya et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 23205. High-quality 16S rRNA sequence S000605343 (RDP), DQ191176 (Genbank). N4Lid DOI: 10.1601/nm.10010

Salegentibacter flavus^{VP} Ivanova et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 107843. High-quality 16S rRNA sequence S000374967 (RDP), AY682200 (Genbank). N4Lid 10.1601/nm.9955

Salegentibacter holothuriorum^{VP} Nedashkovskaya et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NBRC 100249. High-quality 16S rRNA sequence S000364646 (RDP), AB116148 (Genbank). N4Lid 10.1601/nm.8828

Salegentibacter mishustinae^{VP} Nedashkovskaya et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NBRC 100592. High-quality 16S rRNA sequence S000475291 (RDP), AY576653 (Genbank). N4Lid 10.1601/nm.8829

Genus *Sejorgia*^{VP} Yi et al. 2005. N4Lid 10.1601/nm.8836

Sejorgia antarctica^{VP} Yi et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12381. High-quality 16S rRNA sequence S000475017 (RDP), AY553293 (Genbank). N4Lid 10.1601/nm.8837

Sejongia jeonii^{VP} Yi et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12382. High-quality 16S rRNA sequence S000475018 (RDP), AY553294 (Genbank). N4Lid 10.1601/nm.8838

Genus *Stenothermobacter*^{VP} Lau et al. 2006. N4Lid 10.1601/nm.9863

Stenothermobacter spongiae^{VP} Lau et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NRRL B-41138. High-quality 16S rRNA sequence S000537628 (RDP), DQ064789 (Genbank). N4Lid 10.1601/nm.9862

Genus *Subsaxibacter*^{VP} Bowman and Nichols 2005. N4Lid 10.1601/nm.9544

Subsaxibacter broadyi^{VP} Bowman and Nichols 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108527. High-quality 16S rRNA sequence S000574861 (RDP), AY693999 (Genbank). N4Lid 10.1601/nm.9543

Genus *Subsaximicrobium*^{VP} Bowman and Nichols 2005. N4Lid 10.1601/nm.9542

Subsaximicrobium saxinquilinus^{VP} Bowman and Nichols 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108526. High-quality 16S rRNA sequence S000574860 (RDP), AY693998 (Genbank). N4Lid 10.1601/nm.9541

Subsaximicrobium wynnwilliamsii^{VP} Bowman and Nichols 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108525. High-quality 16S rRNA sequence S000574859 (RDP), AY693997 (Genbank). N4Lid 10.1601/nm.9540

Genus *Tenacibaculum*^{VP} Suzuki et al. 2001. GOLD ID: Gi00896. GCAT ID: 001597_GCAT. Entrez genome id: 13543. Sequenced strain: MED152 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.8192

Tenacibaculum maritimum^{VP} (Wakabayashi et al. 1986) Suzuki et al. 2001. <== *Flexibacter maritimus* (basonym). Synonym links through N4Lid: 10.1601/ex.8258. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43398. High-quality 16S rRNA sequence S000436626 (RDP), M64629 (Genbank). N4Lid DOI: 10.1601/nm.8193

† *Cytophaga marina*^{VP} (ex Hikida et al. 1979) Reichenbach 1989. == *Tenacibaculum maritimum* (earlier homotypic synonym), links through 10.1601/ex.8258. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43398. High-quality 16S rRNA sequence S000436626 (RDP), M64629 (Genbank). N4Lid DOI: 10.1601/nm.8285

† *Flexibacter maritimus*^{VP} Wakabayashi et al. 1986. ==> *Tenacibaculum maritimum* (new combination). Synonym links through N4Lid: 10.1601/ex.8258. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43398. High-quality 16S rRNA sequence S000436626 (RDP), M64629 (Genbank). N4Lid DOI: 10.1601/nm.8258

Tenacibaculum aestuarii^{VP} Jung et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 13491. High-quality 16S rRNA sequence S000636106 (RDP), DQ314760 (Genbank). N4Lid DOI: 10.1601/nm.10172

Tenacibaculum amylolyticum^{VP} Suzuki et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13766. High-quality 16S rRNA sequence S000382985 (RDP), AB032505 (Genbank). N4Lid DOI: 10.1601/nm.8194

Tenacibaculum litoreum^{VP} Choi et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 13039. High-quality 16S rRNA sequence S000515803 (RDP), AY962294 (Genbank). N4Lid 10.1601/nm.9957

Tenacibaculum lutimaris^{VP} Yoon et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16505. High-quality 16S rRNA sequence S000504855 (RDP), AY661691 (Genbank). N4Lid 10.1601/nm.9381

Tenacibaculum mesophilum^{VP} Suzuki et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13764. High-quality 16S rRNA sequence S000382981 (RDP), AB032501 (Genbank). N4Lid DOI: 10.1601/nm.8195

Tenacibaculum ovolyticum^{VP} (Hansen et al. 1992) Suzuki et al. 2001. <== *Flexibacter ovolyticus* (basonym). Synonym links through N4Lid: 10.1601/ex.8259. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51887. N4Lid DOI: 10.1601/nm.8196

† *Flexibacter ovolyticus*^{VP} Hansen et al. 1992. ==> *Tenacibaculum ovolyticum* (new combination). Synonym links through N4Lid: 10.1601/ex.8259. Source of type material

recommended for DOE sponsored genome sequencing by the JGI: ATCC 51887. N4Lid DOI: 10.1601/nm.8259

Tenacibaculum skagerrakense^{VP} Frette et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-458. High-quality 16S rRNA sequence S000395057 (RDP), AF469612 (Genbank). N4Lid DOI: 10.1601/nm.8197

Genus *Ulvibacter*^{VP} Nedashkovskaya et al. 2004. N4Lid DOI: 10.1601/nm.8198

Ulvibacter litoralis^{VP} Nedashkovskaya et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 47093. High-quality 16S rRNA sequence S000404311 (RDP), AY243096 (Genbank). N4Lid DOI: 10.1601/nm.8199

Genus *Vitellibacter*^{VP} Nedashkovskaya et al. 2003. N4Lid DOI: 10.1601/nm.8200

Vitellibacter vladivostokensis^{VP} Nedashkovskaya et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 11732. High-quality 16S rRNA sequence S000384493 (RDP), AB071382 (Genbank). N4Lid DOI: 10.1601/nm.8201

Genus *Weeksella*^{VP} Holmes et al. 1987. N4Lid DOI: 10.1601/nm.8202

Weeksella virosa^{VP} Holmes et al. 1987. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43766. High-quality 16S rRNA sequence S000436902 (RDP), M93152 (Genbank). N4Lid DOI: 10.1601/nm.8203

Genus *Winogradskyella*^{VP} Nedashkovskaya et al. 2005. N4Lid 10.1601/nm.8908

Winogradskyella thalassocola^{VP} Nedashkovskaya et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15363. High-quality 16S rRNA sequence S000474439 (RDP), AY521223 (Genbank). N4Lid 10.1601/nm.8911

Winogradskyella epiphytica^{VP} Nedashkovskaya et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 47091. High-quality 16S rRNA sequence S000474440 (RDP), AY521224 (Genbank). N4Lid 10.1601/nm.8909

Winogradskyella eximia^{VP} Nedashkovskaya et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22474. High-quality 16S rRNA sequence S000474441 (RDP), AY521225 (Genbank). N4Lid 10.1601/nm.8910

Winogradskyella poriferorum^{VP} Lau et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NRRL B-41101. High-quality 16S rRNA sequence S000468424 (RDP), AY848823 (Genbank). N4Lid 10.1601/nm.9561

Genus *Yeosuana*^{VP} Kwon et al. 2006. N4Lid DOI: 10.1601/nm.10004

Yeosuana aromatorans^{VP} Kwon et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12862. High-quality 16S rRNA sequence S000374972 (RDP), AY682382 (Genbank). N4Lid DOI: 10.1601/nm.10003

Genus *Zobellia*^{VP} Barbeyron et al. 2001. N4Lid DOI: 10.1601/nm.8205

Zobellia galactanivorans^{VP} corrig. Barbeyron et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 12802. High-quality 16S rRNA sequence S000389071 (RDP), AF208293 (Genbank). GOLD ID: Gi01090. GCAT ID: 001728_GCAT. Entrez genome id: 16099. Sequenced strain: DsijT 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.8206

Zobellia amurskyensis^{VP} Nedashkovskaya et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 47080. High-quality 16S rRNA sequence S000415132 (RDP), AB121974 (Genbank). N4Lid 10.1601/nm.8921

Zobellia laminariae^{VP} Nedashkovskaya et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 47083. High-quality 16S rRNA sequence S000415133 (RDP), AB121975 (Genbank). N4Lid 10.1601/nm.8922

Zobellia russellii^{VP} Nedashkovskaya et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 47084. High-quality 16S rRNA sequence S000415134 (RDP), AB121976 (Genbank). N4Lid 10.1601/nm.8923

Zobellia uliginosa^{VP} (ZoBell and Upham 1944) Barbeyron et al. 2001. <== *Flavobacterium uliginosum* (basonym). Synonym links through N4Lid: 10.1601/ex.8119. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14397. High-quality 16S rRNA sequence S000016650 (RDP), M62799 (Genbank). N4Lid DOI: 10.1601/nm.8207

† *Cellulophaga uliginosa*^{VP} (ZoBell and Upham 1944) Bowman 2000. <== *Flavobacterium uliginosum* (basonym). *Zobellia uliginosa* (new combination). Synonym links through N4Lid: 10.1601/ex.8119. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14397. High-quality 16S rRNA sequence S000016650 (RDP), M62799 (Genbank). N4Lid 10.1601/nm.9211

† *Cytophaga uliginosa*^{VP} (ZoBell and Upham 1944) Reichenbach 1989. <== *Flavobacterium uliginosum* (basonym). *Cellulophaga uliginosa* (new combination). Synonym links through N4Lid: 10.1601/ex.8119. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14397. High-quality 16S rRNA sequence S000016650 (RDP), M62799 (Genbank). N4Lid DOI: 10.1601/nm.8292

† *Flavobacterium uliginosum*^{AL} ZoBell and Upham 1944. ==> *Cytophaga uliginosa* (new combination). Synonym links through N4Lid: 10.1601/ex.8119. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14397. High-quality 16S rRNA sequence S000016650 (RDP), M62799 (Genbank). N4Lid DOI: 10.1601/nm.8119

Family "Blattabacteriaceae" N4Lid DOI: 10.1601/nm.8208

Genus *Blattabacterium*^{AL} Hollande and Favre 1931. GOLD ID: Gi01158. GCAT ID: 000781_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.8209

Blattabacterium cuenoti^{AL} (Mercier 1906) Hollande and Favre 1931. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.8210

Family *Cryomorphaceae*^{VP} Bowman et al 2003. N4Lid DOI: 10.1601/nm.8211

Genus *Cryomorpha*^{VP} Bowman et al. 2003. N4Lid DOI: 10.1601/nm.8212

Cryomorpha ignava^{VP} Bowman et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 107453. High-quality 16S rRNA sequence S000388532 (RDP), AF170738 (Genbank). N4Lid DOI: 10.1601/nm.8213

Genus *Fluviicola*^{VP} O'Sullivan et al. 2005. N4Lid 10.1601/nm.9648

Fluviicola taffensis^{VP} O'Sullivan et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16823. High-quality 16S rRNA sequence S000500091 (RDP), AF493694 (Genbank). N4Lid 10.1601/nm.9647

Genus *Algoriphagus*^{VP} Bowman et al. 2003. GOLD ID: Gi01414. GCAT ID: 000878_GCAT. Sequenced strain: PR1 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.8214

Algoriphagus ratkovskyi^{VP} Bowman et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 107452. High-quality 16S rRNA sequence S000438607 (RDP), U85891 (Genbank). N4Lid DOI: 10.1601/nm.8215

Algoriphagus antarcticus^{VP} Van Trappen et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15986. High-quality 16S rRNA sequence S000440159 (RDP), AJ577141 (Genbank). N4Lid DOI: 10.1601/nm.8451

Algoriphagus aquimarinus^{VP} Nedashkovskaya et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 47101. High-quality 16S rRNA sequence S000416838 (RDP), AJ575264 (Genbank). N4Lid DOI: 10.1601/nm.8452

Algoriphagus chordae^{VP} Nedashkovskaya et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 47095. High-quality 16S rRNA sequence S000416839 (RDP), AJ575265 (Genbank). N4Lid DOI: 10.1601/nm.8453

Algoriphagus halophilus^{VP} (Yi and Chun 2004) Nedashkovskaya et al. 2004. <== *Hongiella halophila* (basonym). Synonym links through N4Lid: 10.1601/ex.8302. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15292. High-quality 16S rRNA sequence S000404973 (RDP), AY264839 (Genbank). N4Lid DOI: 10.1601/nm.8454

† *Hongiella halophila*^{VP} Yi and Chun 2004. ==> *Algoriphagus halophilus* (new combination). Synonym links through N4Lid: 10.1601/ex.8302. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15292. High-quality 16S rRNA sequence S000404973 (RDP), AY264839 (Genbank). N4Lid DOI: 10.1601/nm.8302

- Algoriphagus locisalis*^{VP} Yoon et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12597. High-quality 16S rRNA sequence S000575556 (RDP), AY835922 (Genbank). N4Lid 10.1601/nm.9562
- Algoriphagus terrigena*^{VP} Yoon et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108837. High-quality 16S rRNA sequence S000603881 (RDP), DQ178979 (Genbank). N4Lid DOI: 10.1601/nm.10007
- Algoriphagus winogradskyi*^{VP} Nedashkovskaya et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 47094. High-quality 16S rRNA sequence S000416837 (RDP), AJ575263 (Genbank). N4Lid DOI: 10.1601/nm.8455
- Algoriphagus yeomjeoni*^{VP} Yoon et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12598. High-quality 16S rRNA sequence S000505129 (RDP), AY699794 (Genbank). N4Lid 10.1601/nm.9386
- Genus *Brumimicrobium***^{VP} Bowman et al. 2003. N4Lid DOI: 10.1601/nm.8216
- Brumimicrobium glaciale*^{VP} Bowman et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 107451. High-quality 16S rRNA sequence S000431077 (RDP), AF521195 (Genbank). N4Lid DOI: 10.1601/nm.8217
- Genus *Crocinitomix***^{VP} Bowman et al. 2003. N4Lid DOI: 10.1601/nm.8218
- Crocinitomix catalasitica*^{VP} Bowman et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23190. N4Lid DOI: 10.1601/nm.8219
- Genus *Owenweeksia***^{VP} Lau et al. 2005. N4Lid 10.1601/nm.9458
- Owenweeksia hongkongensis*^{VP} Lau et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NRRL B-23963. High-quality 16S rRNA sequence S000542971 (RDP), AB125062 (Genbank). N4Lid 10.1601/nm.9457

Class "*Sphingobacteria*" N4Lid DOI: 10.1601/nm.8220

Order "*Sphingobacteriales*" N4Lid DOI: 10.1601/nm.8221

Family *Sphingobacteriaceae*^{VP} Steyn et al 1998. N4Lid DOI: 10.1601/nm.8222

Genus *Sphingobacterium*^{VP} Yabuuchi et al. 1983. N4Lid DOI: 10.1601/nm.8223

Sphingobacterium spiritivorum^{VP} (Holmes et al. 1982) Yabuuchi et al. 1983. <==
Flavobacterium spiritivorum (basonym). Synonym links through N4Lid: 10.1601/ex.8114. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33861. High-quality 16S rRNA sequence S000436372 (RDP), M58778 (Genbank). N4Lid DOI: 10.1601/nm.8224

† *Flavobacterium yabuuchiae*^{VP} Holmes et al. 1988. ≈ *Sphingobacterium spiritivorum* (earlier heterotypic synonym), links through 10.1601/nm.8224. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 26765. N4Lid DOI: 10.1601/nm.8122

† *Flavobacterium spiritivorum*^{VP} Holmes et al. 1982. ==> *Sphingobacterium spiritivorum* (new combination). Synonym links through N4Lid: 10.1601/ex.8114. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33861. High-quality 16S rRNA sequence S000436372 (RDP), M58778 (Genbank). N4Lid DOI: 10.1601/nm.8114

Sphingobacterium antarcticum^{VP} corrig. Shivaji et al. 1992. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51969. N4Lid DOI: 10.1601/nm.8225

Sphingobacterium daejeonense^{VP} Kim et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 52468. High-quality 16S rRNA sequence S000642493 (RDP), AB249372 (Genbank). N4Lid DOI: 10.1601/nm.10294

Sphingobacterium faecium^{VP} Takeuchi and Yokota 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 104193. High-quality 16S rRNA sequence S000000915 (RDP), AJ438176 (Genbank). N4Lid DOI: 10.1601/nm.8226

Sphingobacterium multivorum^{VP} (Holmes et al. 1981) Yabuuchi et al. 1983. <==
Flavobacterium multivorum (basonym). Synonym links through N4Lid: 10.1601/ex.8103. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33613. High-quality 16S rRNA sequence S000413484 (RDP), D14025 (Genbank). N4Lid DOI: 10.1601/nm.8229

† *Flavobacterium multivorum*^{VP} Holmes et al. 1981. ==> *Sphingobacterium multivorum* (new combination). Synonym links through N4Lid: 10.1601/ex.8103. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33613. High-quality 16S rRNA sequence S000413484 (RDP), D14025 (Genbank). N4Lid DOI: 10.1601/nm.8103

† *Flavobacterium thalpophilum*^{VP} Holmes et al. 1983. ==> *Sphingobacterium thalpophilum* (new combination). Synonym links through N4Lid: 10.1601/ex.8117. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43320. High-quality 16S rRNA sequence S000436373 (RDP), M58779 (Genbank). N4Lid DOI: 10.1601/nm.8117

Sphingobacterium thalpophilum^{VP} (Holmes et al. 1983) Takeuchi and Yokota 1993. <== *Flavobacterium thalpophilum* (basonym). Synonym links through N4Lid: 10.1601/ex.8117. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43320. High-quality 16S rRNA sequence S000436373 (RDP), M58779 (Genbank). N4Lid DOI: 10.1601/nm.8231

Genus *Pedobacter*^{VP} Steyn et al. 1998. N4Lid DOI: 10.1601/nm.8232

Pedobacter heparinus^{VP} (Payza and Korn 1956) Steyn et al. 1998. <== *Flavobacterium heparinum* (basonym). Synonym links through N4Lid: 10.1601/ex.8092. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13125. N4Lid DOI: 10.1601/nm.8233

† *Sphingobacterium heparinum*^{VP} (Payza and Korn 1956) Takeuchi and Yokota 1993. <== *Flavobacterium heparinum* (basonym). *Pedobacter heparinus* (new combination). Synonym links through N4Lid: 10.1601/ex.8092. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13125. N4Lid DOI: 10.1601/nm.8227

† *Cytophaga heparina*^{VP} (Payza and Korn 1956) Christensen 1980. <== *Flavobacterium heparinum* (basonym). *Sphingobacterium heparinum* (new combination). Synonym links through N4Lid: 10.1601/ex.8092. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13125. N4Lid DOI: 10.1601/nm.8281

† *Flavobacterium heparinum*^{AL} Payza and Korn 1956. ==> *Cytophaga heparina* (new combination). Synonym links through N4Lid: 10.1601/ex.8092. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13125. N4Lid DOI: 10.1601/nm.8092

Pedobacter africanus^{VP} Steyn et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 39353. High-quality 16S rRNA sequence S000021044 (RDP), AJ438171 (Genbank). N4Lid DOI: 10.1601/nm.8234

Pedobacter aquatilis^{VP} Gallego et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 13454. High-quality 16S rRNA sequence S000608884 (RDP), AM114396 (Genbank). N4Lid DOI: 10.1601/nm.10260

Pedobacter caeni^{VP} Vanparys et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16990. High-quality 16S rRNA sequence S000539631 (RDP), AJ786798 (Genbank). N4Lid 10.1601/nm.9468

Pedobacter cryoconitis^{VP} Margesin et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14825. High-quality 16S rRNA sequence S000146771 (RDP), AJ438170 (Genbank). N4Lid DOI: 10.1601/nm.8235

Pedobacter himalayensis^{VP} Shivaji et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12171. High-quality 16S rRNA sequence S000539438 (RDP), AJ583425 (Genbank). N4Lid 10.1601/nm.9459

Pedobacter piscium^{VP} (Takeuchi and Yokota 1993) Steyn et al. 1998. <== *Sphingobacterium piscium* (basonym). Synonym links through N4Lid: 10.1601/ex.8230. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 104195. High-quality 16S rRNA sequence S000020497 (RDP), AJ438174 (Genbank). N4Lid DOI: 10.1601/nm.8236

Pedobacter roseus^{VP} Hwang et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 13399. High-quality 16S rRNA sequence S000584168 (RDP), DQ112353 (Genbank). N4Lid DOI: 10.1601/nm.10259

† *Sphingobacterium piscium*^{VP} Takeuchi and Yokota 1993. ==> *Pedobacter piscium* (new combination). Synonym links through N4Lid: 10.1601/ex.8230. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 104195. High-quality 16S rRNA sequence S000020497 (RDP), AJ438174 (Genbank). N4Lid DOI: 10.1601/nm.8230

Pedobacter saltans^{VP} Steyn et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 39354. High-quality 16S rRNA sequence S000016742 (RDP), AJ438173 (Genbank). N4Lid DOI: 10.1601/nm.8237

Pedobacter sandarakinus^{VP} Yoon et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108922. High-quality 16S rRNA sequence S000619894 (RDP), DQ235228 (Genbank). N4Lid DOI: 10.1601/nm.10118

Family "Saprospiraceae" N4Lid DOI: 10.1601/nm.8238

Genus *Saprospira*^{AL} Gross 1911. N4Lid DOI: 10.1601/nm.8239

Saprospira grandis^{AL} Gross 1911. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23119. High-quality 16S rRNA sequence S000436387 (RDP), M58795 (Genbank). N4Lid DOI: 10.1601/nm.8240

Genus *Haliscomenobacter*^{AL} van Veen et al. 1973. N4Lid DOI: 10.1601/nm.8241

Haliscomenobacter hydrossis^{AL} van Veen et al. 1973. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27775. High-quality 16S rRNA sequence S000436382 (RDP), M58790 (Genbank). N4Lid DOI: 10.1601/nm.8242

Genus *Lewinella*^{VP} Sly et al. 1998. N4Lid DOI: 10.1601/nm.8243

Lewinella cohaerens^{VP} (Lewin 1970) Sly et al. 1998. <== *Herpetosiphon cohaerens* (basonym). Synonym links through N4Lid: 10.1601/ex.570. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23123. High-quality 16S rRNA sequence S000427980 (RDP), AF039292 (Genbank). N4Lid DOI: 10.1601/nm.8244

† *Herpetosiphon cohaerens*^{AL} Lewin 1970. ==> *Lewinella cohaerens* (new combination). Synonym links through N4Lid: 10.1601/ex.570. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23123. High-quality 16S rRNA sequence S000427980 (RDP), AF039292 (Genbank). N4Lid DOI: 10.1601/nm.570

Lewinella nigricans^{VP} (Lewin 1970) Sly et al. 1998. <== *Herpetosiphon nigricans* (basonym). Synonym links through N4Lid: 10.1601/ex.572. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23147. High-quality 16S rRNA sequence S000427982 (RDP), AF039294 (Genbank). N4Lid DOI: 10.1601/nm.8245

† *Herpetosiphon nigricans*^{AL} Lewin 1970. ==> *Lewinella nigricans* (new combination). Synonym links through N4Lid: 10.1601/ex.572. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23147. High-quality 16S rRNA sequence S000427982 (RDP), AF039294 (Genbank). N4Lid DOI: 10.1601/nm.572

Lewinella persica^{VP} (Lewin 1970) Sly et al. 1998. <== *Herpetosiphon persicus* (basonym). Synonym links through N4Lid: 10.1601/ex.573. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23167. High-quality 16S rRNA sequence S000427983 (RDP), AF039295 (Genbank). N4Lid DOI: 10.1601/nm.8246

† *Herpetosiphon persicus*^{AL} Lewin 1970. ==> *Lewinella persica* (new combination). Synonym links through N4Lid: 10.1601/ex.573. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23167. High-quality 16S rRNA sequence S000427983 (RDP), AF039295 (Genbank). N4Lid DOI: 10.1601/nm.573

Family "Flexibacteraceae" N4Lid DOI: 10.1601/nm.8247

Genus *Flexibacter*^{AL} Soriano 1945. N4Lid DOI: 10.1601/nm.8248

Flexibacter flexilis^{AL} Soriano 1945. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23079. High-quality 16S rRNA sequence S000022547 (RDP), M62794 (Genbank). N4Lid DOI: 10.1601/nm.8249

Flexibacter aggregans^{AL} (Lewin 1969) Leadbetter 1974. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23162. High-quality 16S rRNA sequence S000436625 (RDP), M64628 (Genbank). N4Lid DOI: 10.1601/nm.8250

Flexibacter aurantiacus^{AL} Lewin 1969. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23107. N4Lid DOI: 10.1601/nm.8251

Flexibacter canadensis^{VP} Christensen 1980. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29591. High-quality 16S rRNA sequence S000016681 (RDP), M62793 (Genbank). N4Lid DOI: 10.1601/nm.8252

Flexibacter elegans^{VP} (ex Lewin 1969, non Soriano 1945) Reichenbach 1989. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23112. High-quality 16S rRNA sequence S000436375 (RDP), M58782 (Genbank). N4Lid DOI: 10.1601/nm.8254

Flexibacter litoralis^{AL} Lewin 1969. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23117. High-quality 16S rRNA sequence S000436377 (RDP), M58784 (Genbank). N4Lid DOI: 10.1601/nm.8257

Flexibacter polymorphus^{AL} Lewin 1974. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27820. High-quality 16S rRNA sequence S000436378 (RDP), M58786 (Genbank). N4Lid DOI: 10.1601/nm.8260

Flexibacter roseolus^{AL} Lewin 1969. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23088. High-quality 16S rRNA sequence S000436379 (RDP), M58787 (Genbank). N4Lid DOI: 10.1601/nm.8262

Flexibacter ruber^{AL} Lewin 1969. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23103. High-quality 16S rRNA sequence S000436380 (RDP), M58788 (Genbank). N4Lid DOI: 10.1601/nm.8263

Flexibacter tractuosus^{AL} (Lewin 1969) Leadbetter 1974. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23168. High-quality 16S rRNA sequence S000436381 (RDP), M58789 (Genbank). N4Lid DOI: 10.1601/nm.8265

Genus *Adhaeribacter*^{VP} Rickard et al. 2005. N4Lid 10.1601/nm.9384

Adhaeribacter aquaticus^{VP} Rickard et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16391. High-quality 16S rRNA sequence S000539472 (RDP), AJ626894 (Genbank). N4Lid 10.1601/nm.9383

Genus *Aquiflexum*^{VP} Brettar et al. 2004. N4Lid DOI: 10.1601/nm.8469

Aquiflexum balticum^{VP} Brettar et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16537. High-quality 16S rRNA sequence S000440297 (RDP), AJ744861 (Genbank). N4Lid DOI: 10.1601/nm.8470

Genus *Aquimarina*^{VP} Nedashkovskaya et al. 2005. ≈ *Aquimarina* (later heterotypic synonym), links through 10.1601/nm.8471. N4Lid DOI: 10.1601/nm.8471

Aquimarina muelleri^{VP} Nedashkovskaya et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22569. High-quality 16S rRNA sequence S000475572 (RDP), AY608406 (Genbank). N4Lid DOI: 10.1601/nm.8472

Aquimarina brevivitae^{VP} (Yoon et al. 2006) Nedashkovskaya et al. 2006. <==
Gaetbulimicrobium brevivitae (basonym). Synonym links through N4Lid: 10.1601/ex.9853. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23177. High-quality 16S rRNA sequence S000439305 (RDP), D12665 (Genbank). N4Lid 10.1601/nm.9853

† *Gaetbulimicrobium brevivitae*^{VP} Yoon et al. 2006. ==> *Aquimarina brevivitae* (new combination). Synonym links through N4Lid: 10.1601/ex.9853. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23177. High-quality 16S rRNA sequence S000527996 (RDP), AY987367 (Genbank). N4Lid DOI: 10.1601/nm.10303

Aquimarina intermedia^{VP} Nedashkovskaya et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17527. High-quality 16S rRNA sequence S000711219 (RDP), AM113977 (Genbank). N4Lid DOI: 10.1601/nm.10302

Aquimarina latercula^{VP} (Lewin 1969) Nedashkovskaya et al. 2006. <== *Cytophaga latercula* (basonym). Synonym links through N4Lid: 10.1601/ex.8283. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23177. High-quality 16S rRNA sequence S000436363 (RDP), M58769 (Genbank). N4Lid 10.1601/nm.9780

† *Stanierella latercula*^{VP} (Lewin 1969) Nedashkovskaya et al. 2005. <== *Cytophaga latercula* (basonym). *Aquimarina latercula* (new combination). Synonym links through N4Lid: 10.1601/ex.8283. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23177. High-quality 16S rRNA sequence S000436363 (RDP), M58769 (Genbank). N4Lid 10.1601/nm.8857

† *Cytophaga latercula*^{AL} Lewin 1969. ==> *Stanierella latercula* (new combination). Synonym links through N4Lid: 10.1601/ex.8283. Source of type material recommended for DOE sponsored

genome sequencing by the JGI: ATCC 23177. High-quality 16S rRNA sequence S000436363 (RDP), M58769 (Genbank). N4Lid DOI: 10.1601/nm.8283

Genus † *Stanierella*^{VP} Nedashkovskaya et al. 2005. ≈ *Aquimarina* (earlier heterotypic synonym), links through 10.1601./nm.8471. N4Lid 10.1601/nm.8856

Genus † *Gaetbulimicrobium*^{VP} Yoon et al. 2006. ≈ *Aquimarina* (earlier heterotypic synonym), links through 10.1601./nm.8471. N4Lid 10.1601/nm.9854

Genus *Arcicella*^{VP} Nikitin et al. 2004. N4Lid DOI: 10.1601/nm.8473

Arcicella aquatica^{VP} Nikitin et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 107990. High-quality 16S rRNA sequence S000351837 (RDP), AJ535729 (Genbank). N4Lid DOI: 10.1601/nm.8474

Genus *Belliella*^{VP} Brettar et al. 2004. N4Lid DOI: 10.1601/nm.8266

Belliella baltica^{VP} Brettar et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15883. High-quality 16S rRNA sequence S000323434 (RDP), AJ564643 (Genbank). N4Lid DOI: 10.1601/nm.8267

Genus *Chimaericella*^{VP} Tiago et al. 2006. N4Lid DOI: 10.1601/nm.10070

Chimaericella alkaliphila^{VP} Tiago et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 108740. N4Lid DOI: 10.1601/nm.10069

Genus "*Cardinium*" N4Lid 10.1601/nm.8988

"*Cardinium hertigii*" Zchori-Fein 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 S000358005 (RDP), AY331187 (Genbank). GOLD ID: Gi01565. GCAT ID: 000864_GCAT. 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.8957

Genus *Cyclobacterium*^{VP} Raj and Maloy 1990. N4Lid DOI: 10.1601/nm.8268

Cyclobacterium marinum^{VP} corrig. (Raj 1976) Raj and Maloy 1990. <== *Flectobacillus marinus* (basonym). Synonym links through N4Lid: 10.1601/ex.8299. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25205. High-quality 16S rRNA sequence S000016665 (RDP), M62788 (Genbank). N4Lid DOI: 10.1601/nm.8269

† *Flectobacillus marinus*^{AL} (Raj 1976) Borrall and Larkin 1978. ==> *Cyclobacterium marinum* (new combination). Synonym links through N4Lid: 10.1601/ex.8299. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25205. High-quality 16S rRNA sequence S000016665 (RDP), M62788 (Genbank). N4Lid DOI: 10.1601/nm.8299

Cyclobacterium amurskyense^{VP} Nedashkovskaya et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 23026. High-quality 16S rRNA sequence S000515766 (RDP), AY960985 (Genbank). N4Lid 10.1601/nm.9755

Genus *Cytophaga*^{AL} Winogradsky 1929. N4Lid DOI: 10.1601/nm.8270

Cytophaga hutchinsonii^{AL} Winogradsky 1929. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33406. High-quality 16S rRNA sequence S000436362 (RDP), M58768 (Genbank). GOLD ID: Gc00400. GCAT ID: 000209_GCAT. Entrez genome id: 54. Sequenced strain: ATCC 33406 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.8271

Cytophaga aurantiaca^{VP} (ex Winogradsky 1929) Reichenbach 1989. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 12208. High-quality 16S rRNA sequence S000439298 (RDP), D12658 (Genbank). N4Lid DOI: 10.1601/nm.8276

Cytophaga columnaris^{VP} (ex Davis 1922) Reichenbach 1989. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23463. N4Lid DOI: 10.1601/nm.8277

Cytophaga fermentans^{AL} Bachmann 1955. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19072. High-quality 16S rRNA sequence S000436360 (RDP), M58766 (Genbank). N4Lid DOI: 10.1601/nm.8279

Cytophaga xylanolytica^{VP} Haack and Breznak 1993. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51429. N4Lid DOI: 10.1601/nm.8293

Genus *Dyadobacter*^{VP} Chelius and Triplett 2000. N4Lid DOI: 10.1601/nm.8294

- Dyadobacter fermentans*^{VP} Chelius and Triplett 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700827. High-quality 16S rRNA sequence S000470279 (RDP), AF137029 (Genbank). N4Lid DOI: 10.1601/nm.8295
- Dyadobacter crusticola*^{VP} Reddy and Garcia-Pichel 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-1036. High-quality 16S rRNA sequence S000539640 (RDP), AJ821885 (Genbank). N4Lid 10.1601/nm.9466
- Dyadobacter ginsengisoli*^{VP} Liu et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 23409. High-quality 16S rRNA sequence S000627905 (RDP), AB245369 (Genbank). N4Lid DOI: 10.1601/nm.10264
- Dyadobacter hamtensis*^{VP} Chaturvedi et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12919. N4Lid 10.1601/nm.9634
- Genus *Echinicola***^{VP} Nedashkovskaya et al. 2006. N4Lid DOI: 10.1601/nm.10056
- Echinicola pacifica*^{VP} Nedashkovskaya et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 23350. High-quality 16S rRNA sequence S000612855 (RDP), DQ185611 (Genbank). N4Lid DOI: 10.1601/nm.10055
- Genus *Effluviibacter***^{VP} Suresh et al. 2006. N4Lid DOI: 10.1601/nm.10180
- Effluviibacter roseus*^{VP} Suresh et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17521. High-quality 16S rRNA sequence S000544813 (RDP), AM049256 (Genbank). N4Lid DOI: 10.1601/nm.10179
- Genus *Emticicia***^{VP} Saha and Chakrabarti 2006. N4Lid DOI: 10.1601/nm.10060
- Emticicia oligotrophica*^{VP} Saha and Chakrabarti 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17448. High-quality 16S rRNA sequence S000627044 (RDP), AY904352 (Genbank). N4Lid DOI: 10.1601/nm.10059
- Genus *Fabibacter***^{VP} Lau et al. 2006. N4Lid DOI: 10.1601/nm.10064
- Fabibacter halotolerans*^{VP} Lau et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NRRL B-41220. High-quality 16S rRNA sequence S000557768 (RDP), DQ080995 (Genbank). N4Lid DOI: 10.1601/nm.10063
- Genus *Flectobacillus***^{AL} Larkin et al. 1977. N4Lid DOI: 10.1601/nm.8296
- Flectobacillus major*^{AL} (Gromov 1963) Larkin et al. 1977. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29496. High-quality 16S rRNA sequence S000021760 (RDP), M62787 (Genbank). N4Lid DOI: 10.1601/nm.8297
- Flectobacillus lacus*^{VP} Hwang and Cho 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 13398. High-quality 16S rRNA sequence S000584167 (RDP), DQ112352 (Genbank). N4Lid DOI: 10.1601/nm.10114
- Genus *Hongiella***^{VP} Yi and Chun 2004. N4Lid DOI: 10.1601/nm.8300
- Hongiella mannitolivorans*^{VP} Yi and Chun 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15301. High-quality 16S rRNA sequence S000404972 (RDP), AY264838 (Genbank). N4Lid DOI: 10.1601/nm.8301
- Hongiella marincola*^{VP} Yoon et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 16067. High-quality 16S rRNA sequence S000420519 (RDP), AY533663 (Genbank). N4Lid 10.1601/nm.8617
- Hongiella ornithinivorans*^{VP} Yi and Chun 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15282. High-quality 16S rRNA sequence S000404974 (RDP), AY264840 (Genbank). N4Lid DOI: 10.1601/nm.8303
- Genus *Hymenobacter***^{VP} Hirsch et al. 1999. N4Lid DOI: 10.1601/nm.8304
- Hymenobacter roseosalivarius*^{VP} Hirsch et al. 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 11622. High-quality 16S rRNA sequence S000019071 (RDP), Y18833 (Genbank). N4Lid DOI: 10.1601/nm.8305
- Hymenobacter actinosclerus*^{VP} Collins et al. 2000. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 39621. High-quality 16S rRNA sequence S000018007 (RDP), Y17356 (Genbank). N4Lid DOI: 10.1601/nm.8307
- Hymenobacter aerophilus*^{VP} Buczolits et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13606. High-quality 16S rRNA sequence S000019997 (RDP), AJ276901 (Genbank). N4Lid DOI: 10.1601/nm.8306

Hymenobacter chitinivorans^{VP} Buczolits et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 11115. High-quality 16S rRNA sequence S000019101 (RDP), Y18837 (Genbank). N4Lid DOI: 10.1601/nm.10309

Hymenobacter gelipurpurascens^{VP} Buczolits et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 11116. High-quality 16S rRNA sequence S000017522 (RDP), Y18836 (Genbank). N4Lid DOI: 10.1601/nm.10308

Hymenobacter norwichensis^{VP} Buczolits et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 15439. High-quality 16S rRNA sequence S000118541 (RDP), AJ549285 (Genbank). N4Lid DOI: 10.1601/nm.10310

Hymenobacter ocellatus^{VP} Buczolits et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 11117. High-quality 16S rRNA sequence S000006685 (RDP), Y18838 (Genbank). N4Lid DOI: 10.1601/nm.10307

Hymenobacter rigui^{VP} et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: KCTC 12533. High-quality 16S rRNA sequence S000558790 (RDP), DQ089669 (Genbank). N4Lid DOI: 10.1601/nm.10295

Genus *Larkinella*^{VP} Vancanneyt et al. 2006. N4Lid 10.1601/nm.9867

Larkinella insperata^{VP} Vancanneyt et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22510. High-quality 16S rRNA sequence S000629071 (RDP), AM000022 (Genbank). N4Lid 10.1601/nm.9866

Genus *Leadbetterella*^{VP} Weon et al. 2005. N4Lid 10.1601/nm.9751

Leadbetterella byssohila^{VP} Weon et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17132. High-quality 16S rRNA sequence S000509769 (RDP), AY854022 (Genbank). N4Lid 10.1601/nm.9750

Genus *Leeuwenhoekiella*^{VP} Nedashkovskaya et al. 2005. N4Lid 10.1601/nm.9456

Leeuwenhoekiella marinoflava^{VP} (Reichenbach 1989) Nedashkovskaya et al. 2005. <=== *Cytophaga marinoflava* (basonym). Synonym links through N4Lid: 10.1601/ex.8286. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19326. High-quality 16S rRNA sequence S000436364 (RDP), M58770 (Genbank). N4Lid 10.1601/nm.9268

† *Cytophaga marinoflava*^{VP} (ex Colwell et al. 1966) Reichenbach 1989. ==> *Leeuwenhoekiella marinoflava* (new combination). Synonym links through N4Lid: 10.1601/ex.8286. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 19326. High-quality 16S rRNA sequence S000436364 (RDP), M58770 (Genbank). N4Lid DOI: 10.1601/nm.8286

Leeuwenhoekiella aequorea^{VP} Nedashkovskaya et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 50091. N4Lid 10.1601/nm.9455

Leeuwenhoekiella blandensis^{VP} Pinhassi et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 51940. High-quality 16S rRNA sequence S000625868 (RDP), DQ294290 (Genbank). GOLD ID: Gi00843. GCAT ID: 001058_GCAT. Entrez genome id: 13573. Sequenced strain: MED217 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.10170

Genus *Meniscus*^{AL} Irgens 1977. N4Lid DOI: 10.1601/nm.8308

Meniscus glaucopis^{AL} Irgens 1977. Source of type material recommended for DOE sponsored genome sequencing by the JGI:NIVA CYA 277/1. N4Lid DOI: 10.1601/nm.8309

Genus *Microscilla*^{AL} Pringsheim 1951. N4Lid DOI: 10.1601/nm.8310

Microscilla marina^{AL} (Pringsheim 1951) Lewin 1969. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23134. High-quality 16S rRNA sequence S000436385 (RDP), M58793 (Genbank). GOLD ID: Gi00853. GCAT ID: 001213_GCAT. Entrez genome id: 13411. Sequenced strain: ATCC 23134 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.8311

Genus *Niastella*^{VP} Weon et al. 2006. N4Lid DOI: 10.1601/nm.10256

Niastella koreensis^{VP} Weon et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17620. High-quality 16S rRNA sequence S000620070 (RDP), DQ244077 (Genbank). N4Lid DOI: 10.1601/nm.10255

Niastella yeongjuensis^{VP} Weon et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17621. High-quality 16S rRNA sequence S000620069 (RDP), DQ244076 (Genbank). N4Lid DOI: 10.1601/nm.10257

Genus *Reichenbachiella*^{VP} Nedashkovskaya et al. 2005. N4Lid 10.1601/nm.9762

Reichenbachiella agariperforans^{VP} (Nedashkovskaya et al. 2003) Nedashkovskaya et al. 2005. <== *Reichenbachia agariperforans* (basonym). Synonym links through N4Lid: 10.1601/ex.8313. Source of type material recommended for DOE sponsored genome sequencing by the JGI: IFO 16625. High-quality 16S rRNA sequence S000383917 (RDP), AB058919 (Genbank). N4Lid 10.1601/nm.9277

† *Reichenbachia agariperforans*^{VP} Nedashkovskaya et al. 2003. ==> *Reichenbachiella agariperforans* (new combination). Synonym links through N4Lid: 10.1601/ex.8313. Source of type material recommended for DOE sponsored genome sequencing by the JGI: IFO 16625. High-quality 16S rRNA sequence S000383917 (RDP), AB058919 (Genbank). N4Lid DOI: 10.1601/nm.8313

Genus † *Reichenbachia*^{VP} Nedashkovskaya et al. 2003. Illegitimate name. DOI: 10.1601/nm.8312

Genus *Roseivirga*^{VP} Nedashkovskaya et al. 2005. ≈ *Roseivirga* (later heterotypic synonym), links through 10.1601/nm.8820. N4Lid 10.1601/nm.8820

Roseivirga ehrenbergii^{VP} Nedashkovskaya et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22567. High-quality 16S rRNA sequence S000475576 (RDP), AY608410 (Genbank). N4Lid 10.1601/nm.8821

Roseivirga spongicola^{VP} Lau et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: NRRL B-41219. High-quality 16S rRNA sequence S000557769 (RDP), DQ080996 (Genbank). N4Lid DOI: 10.1601/nm.10065

Roseivirga seohaensis^{VP} (Yoon et al. 2005) Lau et al. 2006. <== *Marinicola seohaensis* (basonym). Synonym links through N4Lid: 10.1601/ex.9806. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12600. N4Lid 10.1601/nm.9806

† *Marinicola seohaensis*^{VP} Yoon et al. 2005. ==> *Roseivirga seohaensis* (new combination). Synonym links through N4Lid: 10.1601/ex.9806. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 12600. High-quality 16S rRNA sequence S000505499 (RDP), AY739663 (Genbank). N4Lid 10.1601/nm.9768

Roseivirga echinomitans^{VP} Nedashkovskaya et al. 2005. Source of type material recommended for DOE sponsored genome sequencing by the JGI: LMG 22587. High-quality 16S rRNA sequence S000426605 (RDP), AY753206 (Genbank). N4Lid 10.1601/nm.9638

Genus † *Marinicola*^{VP} Yoon et al. 2005. ≈ *Roseivirga* (earlier heterotypic synonym), links through 10.1601/nm.8820. N4Lid 10.1601/nm.9385

Genus *Runella*^{AL} Larkin and Williams 1978. N4Lid DOI: 10.1601/nm.8314

Runella slithyformis^{AL} Larkin and Williams 1978. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29530. High-quality 16S rRNA sequence S000016670 (RDP), M62786 (Genbank). N4Lid DOI: 10.1601/nm.8315

Runella zae^{VP} Chelius et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-293. High-quality 16S rRNA sequence S000498586 (RDP), AF137381 (Genbank). N4Lid DOI: 10.1601/nm.8316

Genus *Spirosoma*^{AL} Migula 1894. N4Lid DOI: 10.1601/nm.8317

Spirosoma linguale^{AL} Migula 1894. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33905. High-quality 16S rRNA sequence S000629072 (RDP), AM000023 (Genbank). N4Lid DOI: 10.1601/nm.8318

Genus *Sporocytophaga*^{AL} Stanier 1940. N4Lid DOI: 10.1601/nm.8319

Sporocytophaga myxococcoides^{AL} (Krzemieniewska 1933) Stanier 1940. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 10010. High-quality 16S rRNA sequence S000012082 (RDP), AJ310654 (Genbank). N4Lid DOI: 10.1601/nm.8320

Family "Flammeovirgaceae" N4Lid DOI: 10.1601/nm.8321**Genus *Flammeovirga*^{VP}** Nakagawa et al. 1997. N4Lid DOI: 10.1601/nm.8322

Flammeovirga aprica^{VP} (Reichenbach 1989) Nakagawa et al. 1997. <== *Cytophaga aprica* (basonym). Synonym links through N4Lid: 10.1601/ex.8273. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23126. High-quality 16S rRNA sequence S000439295 (RDP), D12655 (Genbank). N4Lid DOI: 10.1601/nm.8323

† *Cytophaga aprica*^{VP} (ex Lewin 1969) Reichenbach 1989. ==> *Flammeovirga aprica* (new combination). Synonym links through N4Lid: 10.1601/ex.8273. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23126. High-quality 16S rRNA sequence S000439295 (RDP), D12655 (Genbank). N4Lid DOI: 10.1601/nm.8273

Flammeovirga arenaria^{VP} (ex Lewin 1969) Takahashi et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 109101. High-quality 16S rRNA sequence S000711005 (RDP), AB247553 (Genbank). N4Lid DOI: 10.1601/nm.10304

Flammeovirga yaeyamensis^{VP} Takahashi et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 109099. High-quality 16S rRNA sequence S000711006 (RDP), AB247554 (Genbank). N4Lid DOI: 10.1601/nm.10305

Genus *Flexithrix*^{AL} Lewin 1970. N4Lid DOI: 10.1601/nm.8324

Flexithrix dorotheae^{AL} Lewin 1970. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23163. High-quality 16S rRNA sequence S000427984 (RDP), AF039296 (Genbank). N4Lid DOI: 10.1601/nm.8325

Genus *Persicobacter*^{VP} Nakagawa et al. 1997. N4Lid DOI: 10.1601/nm.8326

Persicobacter diffluens^{VP} (Reichenbach 1989) Nakagawa et al. 1997. <== *Cytophaga diffluens* (basonym). Synonym links through N4Lid: 10.1601/ex.8278. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49458. High-quality 16S rRNA sequence S000439300 (RDP), D12660 (Genbank). N4Lid DOI: 10.1601/nm.8327

† *Cytophaga diffluens*^{VP} (ex Stanier 1940) Reichenbach 1989. ==> *Persicobacter diffluens* (new combination). Synonym links through N4Lid: 10.1601/ex.8278. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49458. High-quality 16S rRNA sequence S000439300 (RDP), D12660 (Genbank). N4Lid DOI: 10.1601/nm.8278

Genus *Thermonema*^{VP} Hudson et al. 1989. N4Lid DOI: 10.1601/nm.8328

Thermonema lapsum^{VP} Hudson et al. 1989. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43542. N4Lid DOI: 10.1601/nm.8329

Thermonema rossianum^{VP} Nobre et al. 1997. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 10300. High-quality 16S rRNA sequence S000016110 (RDP), Y08956 (Genbank). N4Lid DOI: 10.1601/nm.8330

Family *Crenotrichaceae*^{AL} Hansgirg 1888. N4Lid DOI: 10.1601/nm.8331**Genus *Crenothrix*^{AL}** Cohn 1870. N4Lid DOI: 10.1601/nm.8332

Crenothrix polyspora^{AL} Cohn 1870. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. GOLD ID: Gi01569. GCAT ID: 000987_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.8333

Genus *Balneola*^{VP} Urios et al. 2006. N4Lid DOI: 10.1601/nm.10262

Balneola vulgaris^{VP} Urios et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17893. High-quality 16S rRNA sequence S000594445 (RDP), AY576749 (Genbank). N4Lid DOI: 10.1601/nm.10261

Genus *Chitinophaga*^{VP} Sangkhobol and Skerman 1981. N4Lid DOI: 10.1601/nm.8334

Chitinophaga pinensis^{VP} Sangkhobol and Skerman 1981. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43595. High-quality 16S rRNA sequence S000428531 (RDP), AF078775 (Genbank). N4Lid DOI: 10.1601/nm.8335

Chitinophaga arvensicola^{VP} (Oyaizu et al. 1983) Kämpfer et al. 2006. <== *Cytophaga arvensicola* (basonym). Synonym links through N4Lid: 10.1601/ex.8275. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51264. High-quality 16S rRNA sequence S000439297 (RDP), D12657 (Genbank). N4Lid 10.1601/nm.9779

- † *Cytophaga arvensicola*^{VP} Oyaizu et al. 1983. ==> *Chitinophaga arvensicola* (new combination). Synonym links through N4Lid: 10.1601/ex.8275. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51264. High-quality 16S rRNA sequence S000439297 (RDP), D12657 (Genbank). N4Lid DOI: 10.1601/nm.8275
- Chitinophaga filiformis*^{VP} (Reichenbach 1989) Kämpfer et al. 2006. <== *Flexibacter filiformis* (basonym). Synonym links through N4Lid: 10.1601/ex.8255. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29495. High-quality 16S rRNA sequence S000436375 (RDP), M58782 (Genbank). N4Lid 10.1601/nm.9791
- † *Flexibacter filiformis*^{VP} (ex Solntseva 1940) Reichenbach 1989. ==> *Chitinophaga filiformis* (new combination). Synonym links through N4Lid: 10.1601/ex.8255. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29495. High-quality 16S rRNA sequence S000436415 (RDP), M57743 (Genbank). N4Lid DOI: 10.1601/nm.8255
- Chitinophaga japonensis*^{VP} (Fujita et al. 1997) Kämpfer et al. 2006. <== *Flexibacter japonensis* (basonym). Synonym links through N4Lid: 10.1601/ex.8256. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13484. High-quality 16S rRNA sequence S000384749 (RDP), AB078055 (Genbank). N4Lid 10.1601/nm.9795
- † *Flexibacter japonensis*^{VP} Fujita et al. 1997. ==> *Chitinophaga japonensis* (new combination). Synonym links through N4Lid: 10.1601/ex.8256. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 13484. High-quality 16S rRNA sequence S000384749 (RDP), AB078055 (Genbank). N4Lid DOI: 10.1601/nm.8256
- Chitinophaga sancti*^{VP} (Lewin 1969) Kämpfer et al. 2006. <== *Flexibacter sancti* (basonym). Synonym links through N4Lid: 10.1601/ex.8264. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23092. High-quality 16S rRNA sequence S000013697 (RDP), M62795 (Genbank). N4Lid 10.1601/nm.9783
- † *Flexibacter sancti*^{AL} Lewin 1969. ==> *Chitinophaga sancti* (new combination). Synonym links through N4Lid: 10.1601/ex.8264. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 23092. High-quality 16S rRNA sequence S000013697 (RDP), M62795 (Genbank). N4Lid DOI: 10.1601/nm.8264
- Chitinophaga skermanii*^{VP} Kämpfer et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 52510. High-quality 16S rRNA sequence S000537535 (RDP), DQ062743 (Genbank). N4Lid DOI: 10.1601/nm.10306
- Genus *Rhodothermus***^{VP} Alfredsson et al. 1995. N4Lid DOI: 10.1601/nm.8336
- Rhodothermus marinus*^{VP} Alfredsson et al. 1995. ≈ *Rhodothermus obamensis* (later heterotypic synonym), links through 10.1601/nm.8337. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43812. High-quality 16S rRNA sequence S000129434 (RDP), X80994 (Genbank). N4Lid DOI: 10.1601/nm.8337
- † *Rhodothermus obamensis*^{VP} Sako et al. 1996. ≈ *Rhodothermus marinus* (earlier heterotypic synonym), links through 10.1601/nm.8337. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 4252. High-quality 16S rRNA sequence S000129434 (RDP), X80994 (Genbank). N4Lid DOI: 10.1601/nm.8338
- Genus *Salinibacter***^{VP} Antón et al. 2002. N4Lid DOI: 10.1601/nm.8339
- Salinibacter ruber*^{VP} Antón et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-605. High-quality 16S rRNA sequence S000391577 (RDP), AF323500 (Genbank). GOLD ID: Gc00331. GCAT ID: 000279_GCAT. Entrez genome id: 16159. Sequenced strain: DSM 13855 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 2 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.8340
- Genus *Terrimonas***^{VP} Xie and Yokota 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: newname. N4Lid DOI: 10.1601/nm.10067
- Terrimonas ferruginea*^{VP} (Sickles and Shaw 1934) Xie and Yokota 2006. <== *Flavobacterium ferrugineum* (basonym). Synonym links through N4Lid: 10.1601/ex.8083. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13524. High-quality 16S rRNA sequence S000007584 (RDP), M62798 (Genbank). N4Lid 10.1601/nm.9782
- † *Flavobacterium ferrugineum*^{AL} Sickles and Shaw 1934. ==> *Terrimonas ferruginea* (new combination). Synonym links through N4Lid: 10.1601/ex.8083. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 13524. High-quality 16S rRNA sequence S000007584 (RDP), M62798 (Genbank). N4Lid DOI: 10.1601/nm.8083

Terrimonas lutea^{VP} Xie and Yokota 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: IAM 15284. N4Lid DOI: 10.1601/nm.10066

Genus *Toxothrix*^{AL} Molisch 1925. N4Lid DOI: 10.1601/nm.8341

Toxothrix trichogenes^{AL} (Cholodny 1924) Beger 1953. Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. N4Lid DOI: 10.1601/nm.8342

Phylum "*Fusobacteria*" N4Lid DOI: 10.1601/nm.8343

Class "*Fusobacteria*" N4Lid DOI: 10.1601/nm.8344

Order "*Fusobacteriales*" N4Lid DOI: 10.1601/nm.8345

Family "*Fusobacteriaceae*" N4Lid DOI: 10.1601/nm.8346

Genus *Fusobacterium*^{AL} Knorr 1922. N4Lid DOI: 10.1601/nm.8347

Fusobacterium nucleatum subsp. nucleatum^{VP} Knorr 1922. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 10953. High-quality 16S rRNA sequence S000259985 (RDP), X55401 (Genbank). GOLD ID: Gc00085. GCAT ID: 000525_GCAT. Entrez genome id: 295. Sequenced strain: ATCC 10953 is type material. Genome sequencing is completed. Number of genomes of this species sequenced 2 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.8348

Fusobacterium nucleatum subsp. animalis^{VP} Gharbia and Shah 1992. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51191. High-quality 16S rRNA sequence S000259986 (RDP), X55404 (Genbank). N4Lid DOI: 10.1601/nm.8349

Fusobacterium nucleatum subsp. fusiforme^{VP} (ex Veillon and Zuber 1898) Gharbia and Shah 1992. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51190. High-quality 16S rRNA sequence S000260777 (RDP), X55403 (Genbank). N4Lid DOI: 10.1601/nm.8350

Fusobacterium nucleatum subsp. polymorphum^{VP} (ex Knorr 1922) Dzink et al. 1990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 10953. High-quality 16S rRNA sequence S000260617 (RDP), X55402 (Genbank). GOLD ID: Gi00264. GCAT ID: 001094_GCAT. Entrez genome id: 17261. Sequenced strain: ATCC 10953 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.8351

Fusobacterium nucleatum subsp. vincentii^{VP} Dzink et al. 1990. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49256. High-quality 16S rRNA sequence S000130331 (RDP), AJ006964 (Genbank). GOLD ID: Gi00265. GCAT ID: 001095_GCAT. Entrez genome id: 1419. Sequenced strain: ATCC 49256 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.8352

Fusobacterium canifelinum^{VP} Conrads et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-689. High-quality 16S rRNA sequence S000417698 (RDP), AY162220 (Genbank). N4Lid DOI: 10.1601/nm.8585

Fusobacterium equinum^{VP} Dorsch et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: JCM 11174. High-quality 16S rRNA sequence S000126816 (RDP), AJ295750 (Genbank). N4Lid DOI: 10.1601/nm.8354

Fusobacterium gonidiaformans^{AL} (Tunncliffe and Jackson 1925) Moore and Holdeman 1970. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25563. High-quality 16S rRNA sequence S000260569 (RDP), X55410 (Genbank). N4Lid DOI: 10.1601/nm.8355

Fusobacterium mortiferum^{AL} (Harris 1901) Moore and Holdeman 1970. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25557. High-quality 16S rRNA sequence S000260074 (RDP), X55414 (Genbank). N4Lid DOI: 10.1601/nm.8356

Fusobacterium naviforme^{AL} (Jungano 1909) Moore and Holdeman 1970. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25832. N4Lid DOI: 10.1601/nm.8357

Fusobacterium necrogenes^{AL} (Weinberg et al. 1937) Moore and Holdeman 1970. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25556. High-

quality 16S rRNA sequence S000260333 (RDP), X55408 (Genbank). N4Lid DOI: 10.1601/nm.8358

Fusobacterium necrophorum subsp. *necrophorum*^{VP} (Flügge 1886) Moore and Holdeman 1969. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25286. High-quality 16S rRNA sequence S000260848 (RDP), X55411 (Genbank). N4Lid DOI: 10.1601/nm.8359

Fusobacterium necrophorum subsp. *funduliforme*^{VP} (ex Hallé 1898) Shinjo et al. 1991. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51357. N4Lid DOI: 10.1601/nm.8360

Fusobacterium perfoetens^{AL} (Tissier 1905) Moore and Holdeman 1973. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 29250. High-quality 16S rRNA sequence S000013707 (RDP), M58684 (Genbank). N4Lid DOI: 10.1601/nm.8361

Fusobacterium periodonticum^{VP} Slots et al. 1984. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33693. High-quality 16S rRNA sequence S000260849 (RDP), X55405 (Genbank). N4Lid DOI: 10.1601/nm.8362

Fusobacterium russii^{AL} (Hauduroy et al. 1937) Moore and Holdeman 1970. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25533. High-quality 16S rRNA sequence S000260568 (RDP), X55409 (Genbank). N4Lid DOI: 10.1601/nm.8367

Fusobacterium simiae^{VP} Slots and Potts 1982. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33568. High-quality 16S rRNA sequence S000259938 (RDP), X55407 (Genbank). N4Lid DOI: 10.1601/nm.8368

Fusobacterium ulcerans^{VP} Adriaans and Shah 1988. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49185. High-quality 16S rRNA sequence S000260725 (RDP), X55412 (Genbank). N4Lid DOI: 10.1601/nm.8370

Fusobacterium varium^{AL} (Eggerth and Gagnon 1933) Moore and Holdeman 1969. ≈ *Fusobacterium pseudonecrophorum* (later heterotypic synonym), links through 10.1601/nm.8371. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 8501. High-quality 16S rRNA sequence S000013698 (RDP), M58686 (Genbank). N4Lid DOI: 10.1601/nm.8371

† *Fusobacterium pseudonecrophorum*^{VP} (ex Harris and Brown 1927) Shinjo et al. 1990. ≈ *Fusobacterium varium* (earlier heterotypic synonym), links through 10.1601/nm.8371. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51644. N4Lid DOI: 10.1601/nm.8366

Genus *Ilyobacter*^{VP} Stieb and Schink 1985. N4Lid DOI: 10.1601/nm.8372

Ilyobacter polytropus^{VP} Stieb and Schink 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 51220. High-quality 16S rRNA sequence S000018604 (RDP), AJ307981 (Genbank). N4Lid DOI: 10.1601/nm.8373

Ilyobacter delafieldii^{VP} Janssen and Harfoot 1991. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 49679. N4Lid DOI: 10.1601/nm.8374

Ilyobacter insuetus^{VP} Brune et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-291. High-quality 16S rRNA sequence S000022851 (RDP), AJ307980 (Genbank). N4Lid DOI: 10.1601/nm.8375

Ilyobacter tartaricus^{VP} Schink 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35898. High-quality 16S rRNA sequence S000019144 (RDP), AJ307982 (Genbank). N4Lid DOI: 10.1601/nm.8376

Genus *Leptotrichia*^{AL} Trevisan 1879. N4Lid DOI: 10.1601/nm.8377

Leptotrichia buccalis^{AL} (Robin 1853) Trevisan 1879. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14201. High-quality 16S rRNA sequence S000129455 (RDP), X90831 (Genbank). N4Lid DOI: 10.1601/nm.8378

Leptotrichia goodfellowii^{VP} Eribe et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 32286. High-quality 16S rRNA sequence S000434625 (RDP), AY029807 (Genbank). N4Lid DOI: 10.1601/nm.8379

Leptotrichia hofstadii^{VP} Eribe et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 47504. High-quality 16S rRNA sequence S000434621 (RDP), AY029803 (Genbank). N4Lid DOI: 10.1601/nm.8380

Leptotrichia shahii^{VP} Eribe et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 47503. High-quality 16S rRNA sequence S000434624 (RDP), AY029806 (Genbank). N4Lid DOI: 10.1601/nm.8381

Leptotrichia trevisanii^{VP} Tee et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700907. High-quality 16S rRNA sequence S000018119 (RDP), AF206305 (Genbank). N4Lid DOI: 10.1601/nm.8382

Leptotrichia wadei^{VP} Eribe et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 47505. N4Lid DOI: 10.1601/nm.8383

Genus *Propionigenium*^{VP} Schink and Pfennig 1983. N4Lid DOI: 10.1601/nm.8384

Propionigenium modestum^{VP} Schink and Pfennig 1983. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35614. High-quality 16S rRNA sequence S000127119 (RDP), X54275 (Genbank). N4Lid DOI: 10.1601/nm.8385

Propionigenium maris^{VP} Janssen and Liesack 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 9537. High-quality 16S rRNA sequence S000011991 (RDP), X84049 (Genbank). N4Lid DOI: 10.1601/nm.8386

Genus *Sebaldella*^{VP} Collins and Shah 1986. N4Lid DOI: 10.1601/nm.8387

Sebaldella termitidis^{VP} (Sebald 1962) Collins and Shah 1986. <== *Bacteroides termitidis* (basonym). Synonym links through N4Lid: 10.1601/ex.7989. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33386. High-quality 16S rRNA sequence S000021758 (RDP), M58678 (Genbank). N4Lid DOI: 10.1601/nm.8388

† *Bacteroides termitidis*^{AL} (Sebald 1962) Holdeman and Moore 1970. ==> *Sebaldella termitidis* (new combination). Synonym links through N4Lid: 10.1601/ex.7989. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 33386. High-quality 16S rRNA sequence S000021758 (RDP), M58678 (Genbank). N4Lid DOI: 10.1601/nm.7989

Genus *Streptobacillus*^{AL} Levaditi et al. 1925. N4Lid DOI: 10.1601/nm.8389

Streptobacillus moniliformis^{AL} Levaditi et al. 1925. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 14647. High-quality 16S rRNA sequence S000022303 (RDP), Z35305 (Genbank). N4Lid DOI: 10.1601/nm.8390

Genus *Sneathia*^{VP} Collins et al. 2002. N4Lid DOI: 10.1601/nm.8391

Sneathia sanguinegens^{VP} Collins et al. 2002. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CCUG 41628. High-quality 16S rRNA sequence S000096693 (RDP), AJ344093 (Genbank). N4Lid DOI: 10.1601/nm.8392

Family *Incertae sedis* II^{NVP} N4Lid DOI: 10.1601/nm.8393

Genus *Cetobacterium*^{VP} Foster et al. 1996. N4Lid DOI: 10.1601/nm.8394

Cetobacterium ceti^{VP} Foster et al. 1996. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700028. High-quality 16S rRNA sequence S000020432 (RDP), X78419 (Genbank). N4Lid DOI: 10.1601/nm.8395

Cetobacterium somerae^{VP} Finegold et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-474. High-quality 16S rRNA sequence S000273264 (RDP), AJ438155 (Genbank). N4Lid DOI: 10.1601/nm.8396

Phylum "*Verrucomicrobia*" N4Lid DOI: 10.1601/nm.8397

Class *Verrucomicrobiae*^{VP} Hedlund et al 1998. N4Lid DOI: 10.1601/nm.8398

Order *Verrucomicrobiales*^{VP} Ward-Rainey et al 1996. N4Lid DOI: 10.1601/nm.8399

Family *Verrucomicrobiaceae*^{VP} Ward-Rainey et al 1996. N4Lid DOI: 10.1601/nm.8400

Genus *Verrucomicrobium*^{VP} Schlesner 1988. GOLD ID: Gi01048. GCAT ID: 001645_GCAT. Sequenced strain: 2D6 is from a non-type strain. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.8401

Verrucomicrobium spinosum^{VP} Schlesner 1988. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 43997. High-quality 16S rRNA sequence S000021618 (RDP), X90515 (Genbank). GOLD ID: Gi00677. GCAT ID: 001644_GCAT. Entrez

genome id: 10620. Sequenced strain: DSM 4136 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.8402

Genus *Akkermansia* ^{VP} Derrien et al. 2004. N4Lid DOI: 10.1601/nm.8445

Akkermansia muciniphila ^{VP} Derrien et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-835. GOLD ID: Gi00999. GCAT ID: 000693_GCAT. Entrez genome id: 15682. Sequenced strain: ATCC BAA-835 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.8446

Genus *Prostheco bacter* ^{VP} (ex Staley et al. 1976) Staley et al. 1980. N4Lid DOI: 10.1601/nm.8403

Prostheco bacter fusiformis ^{VP} (ex Staley et al. 1976) Staley et al. 1980. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 25309. High-quality 16S rRNA sequence S000437979 (RDP), U60015 (Genbank). N4Lid DOI: 10.1601/nm.8404

Prostheco bacter debontii ^{VP} Hedlund et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700200. High-quality 16S rRNA sequence S000437978 (RDP), U60014 (Genbank). N4Lid DOI: 10.1601/nm.8405

Prostheco bacter dejongeii ^{VP} Hedlund et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 27091. High-quality 16S rRNA sequence S000437977 (RDP), U60012 (Genbank). GOLD ID: Gi00484. GCAT ID: 001376_GCAT. Entrez genome id: 13453. Sequenced strain: ATCC 27091 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.8406

Prostheco bacter vanneervenii ^{VP} Hedlund et al. 1998. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 700199. High-quality 16S rRNA sequence S000004778 (RDP), U60013 (Genbank). N4Lid DOI: 10.1601/nm.8407

Family "*Opiritaceae*" GOLD ID: Gi01740. GCAT ID: 000686_GCAT. Entrez genome id: 18333.

Sequenced strain: TAV2 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.8408

Genus *Opiritus* ^{VP} Chin et al. 2001. N4Lid DOI: 10.1601/nm.8409

Opiritus terrae ^{VP} Chin et al. 2001. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 11246. High-quality 16S rRNA sequence S000018839 (RDP), AJ229235 (Genbank). GOLD ID: Gi01027. GCAT ID: 001343_GCAT. Entrez genome id: 16101. Sequenced strain: 4 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.8410

Genus *Alterococcus* ^{VP} Shieh and Jean 1999. N4Lid DOI: 10.1601/nm.3100

Alterococcus agarolyticus ^{VP} Shieh and Jean 1999. Source of type material recommended for DOE sponsored genome sequencing by the JGI: CIP 106113. High-quality 16S rRNA sequence S000428476 (RDP), AF075271 (Genbank). N4Lid DOI: 10.1601/nm.3101

Genus *Rubritalea* ^{VP} Scheuermayer et al. 2006. N4Lid DOI: 10.1601/nm.10299

Rubritalea marina ^{VP} Scheuermayer et al. 2006. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 17716. High-quality 16S rRNA sequence S000651744 (RDP), DQ302104 (Genbank). N4Lid DOI: 10.1601/nm.10298

Family "*Xiphinematobacteriaceae*" N4Lid DOI: 10.1601/nm.8414

Genus "*Xiphinematobacter*" N4Lid DOI: 10.1601/nm.8415

"Xiphinematobacter brevicollis" Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. High-quality 16S rRNA sequence S000389303 (RDP), AF217462 (Genbank). N4Lid DOI: 10.1601/nm.8416

"Xiphinematobacter americanii" Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. High-quality 16S rRNA sequence S000389301 (RDP), AF217460 (Genbank). N4Lid DOI: 10.1601/nm.8417

"Xiphinematobacter revesi" Source of type material recommended for DOE sponsored genome sequencing by the JGI: No viable deposit available. High-quality 16S rRNA sequence S000389302 (RDP), AF217461 (Genbank). N4Lid DOI: 10.1601/nm.8418

Phylum "*Dictyoglomi*" N4Lid DOI: 10.1601/nm.8419

Class "Dictyoglomi" N4Lid DOI: 10.1601/nm.8420

Order "Dictyoglomales" N4Lid DOI: 10.1601/nm.8421

Family "Dictyoglomaceae" N4Lid DOI: 10.1601/nm.8422

Genus *Dictyoglossus*^{VP} Saiki et al. 1985. N4Lid DOI: 10.1601/nm.8423

Dictyoglossus thermophilum^{VP} Saiki et al. 1985. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC 35947. High-quality 16S rRNA sequence S000010022 (RDP), X69194 (Genbank). GOLD ID: Gi00738. GCAT ID: 001004_GCAT. Entrez genome id: 12523. Sequenced strain: DSM 3960 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.8424

Dictyoglossus turgidum^{VP} corrig. Svetlichny and Svetlichnayá 1995. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 6724. N4Lid DOI: 10.1601/nm.8425

Phylum "Gemmatimonadetes" Zhang et al. 2003. N4Lid DOI: 10.1601/nm.8426

Class "Gemmatimonadetes" N4Lid DOI: 10.1601/nm.8427

Order *Gemmatimonadales*^{VP} Zhang et al 2003. N4Lid DOI: 10.1601/nm.8428

Family *Gemmatimonadaceae*^{VP} Zhang et al 2003. N4Lid DOI: 10.1601/nm.8429

Genus *Gemmatimonas*^{VP} Zhang et al. 2003. N4Lid DOI: 10.1601/nm.8430

Gemmatimonas aurantiaca^{VP} Zhang et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: DSM 14586. High-quality 16S rRNA sequence S000251887 (RDP), AB072735 (Genbank). GOLD ID: Gi01301. GCAT ID: 001101_GCAT. Sequenced strain: DSM 14586 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD). N4Lid DOI: 10.1601/nm.8431

Phylum "Lentisphaerae" Cho et al. 2004. N4Lid 10.1601/nm.8952

Class "Lentisphaerae" N4Lid 10.1601/nm.8953

Order *Lentisphaerales*^{VP} Cho et al 2004. N4Lid 10.1601/nm.8940

Family "Lentisphaeraceae" N4Lid 10.1601/nm.8954

Genus *Lentisphaera*^{VP} Cho et al. 2004. N4Lid 10.1601/nm.8670

Lentisphaera araneosa^{VP} Cho et al. 2004. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-859. High-quality 16S rRNA sequence S000358543 (RDP), AY390428 (Genbank). GOLD ID: Gi00847. GCAT ID: 001163_GCAT. Entrez genome id: 13437. Sequenced strain: HTCC 2155 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid 10.1601/nm.8671

Order *Victivallales*^{VP} Cho et al 2004. N4Lid 10.1601/nm.8951

Family "Victivallaceae" N4Lid DOI: 10.1601/nm.8411

Genus *Victivallis*^{VP} Zoetendal et al. 2003. N4Lid DOI: 10.1601/nm.8412

Victivallis vadensis^{VP} Zoetendal et al. 2003. Source of type material recommended for DOE sponsored genome sequencing by the JGI: ATCC BAA-548. High-quality 16S rRNA sequence S000434907 (RDP), AY049713 (Genbank). GOLD ID: Gi01047. GCAT ID: 001633_GCAT. Entrez genome id: 15583. Sequenced strain: DSM 14823 is type material. Genome sequencing is incomplete. Number of genomes of this species sequenced 1 (GOLD) 1 (NCBI). N4Lid DOI: 10.1601/nm.8413