

**TAXONOMIC OUTLINE
OF THE PROCARYOTIC GENERA
BERGEY'S MANUAL[®] OF SYSTEMATIC BACTERIOLOGY,
SECOND EDITION
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Taxonomic Outline of the Procaryotic Genera
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Domain "Archaea"

Phylum AI. *Crenarchaeota* phy. nov.

Class I. *Thermoprotei* class. nov.

Order I. *Thermoproteales*^{VP (T)}

Family I. *Thermoproteaceae*^{VP}

Genus I. *Thermoproteus*^{VP (T)}

Genus II. *Caldivirga*^{VP}

Genus III. *Pyrobaculum*^{VP}

Genus IV. *Thermocladium*^{VP}

Family II. *Thermofilaceae*^{VP}

Genus I. *Thermofilum*^{VP (T)}

Order II. *Desulfurococcales* ord. nov.

Family I. *Desulfurococcaceae*^{VP}

Genus I. *Desulfurococcus*^{VP (T)}

Genus II. ***Acidolobus***^{VP}

Genus III. *Aeropyrum*^{VP}

Genus IV. ***Ignicoccus***^{VP}

Genus V. *Staphylothermus*^{VP}

Genus VI. *Stetteria*^{VP}

Genus VII. *Sulfophobococcus*^{VP}

Genus VIII. *Thermodiscus* gen. nov.

Genus IX. *Thermosphaera*^{VP}

Family II. *Pyrodictiaceae*^{VP}

Genus I. *Pyrodictium*^{VP (T)}

Genus II. *Hyperthermus*^{VP}

Genus III. *Pyrolobus*^{VP}

Order III. *Sulfolobales*^{VP}

Family I. *Sulfolobaceae*^{VP}

Genus I. *Sulfolobus*^{AL (T)}

Genus II. *Acidianus*^{VP}

Genus III. *Metallosphaera*^{VP}

Genus IV. *Stygiolobus*^{VP}

Genus V. *Sulfurisphaera*^{VP}

Genus VI. *Sulfurococcus*^{VP}

Phylum AII. *Euryarchaeota* phy. nov.

Class I. *Methanobacteria* class. nov.

Order I. *Methanobacteriales*^{VP (T)}

Family I. *Methanobacteriaceae*^{AL}

Genus I. *Methanobacterium*^{AL (T)}

Genus II. *Methanobrevibacter*^{VP}

Genus III. *Methanosphaera*^{VP}

Genus IV. *Methanothermobacter*^{VP}

Family II. *Methanothermaceae*^{VP}

Genus I. *Methanothermus*^{VP (T)}

Class II. *Methanococci* class. nov.

Order I. *Methanococcales*^{VP (T)}

Family I. *Methanococcaceae*^{VP}

Genus I. *Methanococcus*^{AL (T)}

Genus II. *Methanothermococcus* gen. nov.

- Family II. *Methanocaldococcaceae* fam. nov.
 - Genus I. *Methanocaldococcus* gen. nov. ^(T)
 - Genus II. *Methanotorris* gen. nov.
- Order II. *Methanomicrobiales* ^{VP}
 - Family I. *Methanomicrobiaceae* ^{VP}
 - Genus I. *Methanomicrobium* ^{VP (T)}
 - Genus II. *Methanoculleus* ^{VP}
 - Genus III. *Methanofollis* ^{VP}
 - Genus IV. *Methanogenium* ^{VP}
 - Genus V. *Methanolacinia* ^{VP}
 - Genus VI. *Methanoplanus* ^{VP}
 - Family II. *Methanocorpusculaceae* ^{VP}
 - Genus I. *Methanocorpusculum* ^{VP (T)}
 - Family III. *Methanospirillaceae* fam. nov.
 - Genus I. *Methanospirillum* ^{AL (T)}
 - Genera incertae sedis
 - Genus I. *Methanocalculus* ^{VP}
- Order III. *Methanosarcinales* ord. nov.
 - Family I. *Methanosarcinaceae* ^{VP}
 - Genus I. *Methanosarcina* ^{AL (T)}
 - Genus II. *Methanococcoides* ^{VP}
 - Genus III. *Methanohalobium* ^{VP}
 - Genus IV. *Methanohalophilus* ^{VP}
 - Genus V. *Methanolobus* ^{VP}
 - Genus VI. ***Methanomicrococcus*** ^{VP}
 - Genus VII. *Methanosalsum* gen. nov.
 - Family II. *Methanosaeetaceae* fam. nov.
 - Genus I. *Methanosaeta* ^{VP (T)}
- Class III. *Halobacteria* class. nov.
 - Order I. *Halobacteriales* ^{VP (T)}
 - Family I. *Halobacteriaceae* ^{AL}
 - Genus I. *Halobacterium* ^{AL (T)}
 - Genus II. *Haloarcula* ^{VP}
 - Genus III. *Halobaculum* ^{VP}
 - Genus IV. *Halococcus* ^{AL}
 - Genus V. *Haloferax* ^{VP}
 - Genus VI. *Halogeometricum* ^{VP}
 - Genus VII. *Halorhabdus* ^{VP}
 - Genus VIII. *Halorubrum* ^{VP}
 - Genus IX. *Haloterrigena* ^{VP}
 - Genus X. *Natrialba* ^{VP}
 - Genus XI. *Natrinema* ^{VP}
 - Genus XII. *Natronobacterium* ^{VP}
 - Genus XIII. *Natronococcus* ^{VP}
 - Genus XIV. *Natronomonas* ^{VP}
 - Genus XV. *Natronorubrum* ^{VP}
- Class IV. *Thermoplasmata* class. nov.
 - Order I. *Thermoplasmatales* ord. nov. ^(T)
 - Family I. *Thermoplasmataceae* fam. nov.
 - Genus I. *Thermoplasma* ^{AL (T)}
 - Family II. *Picrophilaceae* ^{VP}
 - Genus I. *Picrophilus* ^{VP (T)}
 - Family III. ***Ferroplasmataceae*** ^{VP}
 - Genus I. ***Ferroplasma*** ^{VP}
- Class V. *Thermococci* class. nov.

- Order I. *Thermococcales*^{VP (T)}
 Family I. *Thermococcaceae*^{VP}
 Genus I. *Thermococcus*^{VP (T)}
 Genus II. ***Palaeococcus***^{VP}
 Genus III. *Pyrococcus*^{VP}
- Class VI. *Archaeoglobi* class. nov.
 Order I. *Archaeoglobales* ord. nov.^(T)
 Family I. *Archaeoglobaceae* fam. nov.
 Genus I. *Archaeoglobus*^{VP (T)}
 Genus II. *Ferroglobus*^{VP}
- Class VII. *Methanopyri* class. nov.
 Order I. *Methanopyrales* ord. nov.^(T)
 Family I. *Methanopyraceae* fam. nov.
 Genus I. *Methanopyrus*^{VP (T)}
- Domain "Bacteria"
- Phylum BI. *Aquificae* phy. nov.
 Class I. *Aquificae* class. nov.
 Order I. *Aquificales* ord. nov.^(T)
 Family I. *Aquificaceae* fam. nov.
 Genus I. *Aquifex*^{VP (T)}
 Genus II. *Calderobacterium*^{VP}
 Genus III. *Hydrogenobacter*^{VP}
 Genus IV. *Thermocrinis*^{VP}
 Genera incertae sedis
 Genus I. *Desulfurobacterium*^{VP}
- Phylum BII. *Thermotogae* phy. nov.
 Class I. *Thermotogae* class. nov.
 Order I. *Thermotogales* ord. nov.^(T)
 Family I. *Thermotogaceae* fam. nov.
 Genus I. *Thermotoga*^{VP (T)}
 Genus II. *Fervidobacterium*^{VP}
 Genus III. *Geotoga*^{VP}
 Genus IV. *Petrotoga*^{VP}
 Genus V. *Thermosiphon*^{VP}
- Phylum BIII. *Thermodesulfobacteria* phy. nov.
 Class I. *Thermodesulfobacteria* class. nov.
 Order I. *Thermodesulfobacteriales* ord. nov.^(T)
 Family I. *Thermodesulfobacteriaceae* fam. nov.
 Genus I. *Thermodesulfobacterium*^{VP (T)}
- Phylum BIV. "Deinococcus-Thermus"
 Class I. *Deinococci* class. nov.
 Order I. *Deinococcales*^{VP}
 Family I. *Deinococcaceae*^{VP}
 Genus I. *Deinococcus*^{VP (T)}
 Order II. *Thermales* ord. nov.
 Family I. *Thermaceae* fam. nov.
 Genus I. *Thermus*^{AL (T)}
 Genus II. *Meiothermus*^{VP}
- Phylum BV. *Chrysiogenetes* phy. nov.
 Class I. *Chrysiogenetes* class. nov.
 Order I. *Chrysiogenales* ord. nov.^(T)
 Family I. *Chrysiogenaceae* fam. nov.
 Genus I. *Chrysiogenes*^{VP (T)}
- Phylum BVI. *Chloroflexi* phy. nov.

Taxonomic Outline of the Procaryotes

- Class I. "*Chloroflexi*"
Order I. "*Chloroflexales*"
Family I. "*Chloroflexaceae*"
Genus I. *Chloroflexus*^{AL}
Genus II. *Chloronema*^{AL}
Genus III. *Heliothrix*^{VP}
Family II. *Oscillochloridaceae*^{VP}
Genus I. *Oscillochloris*^{VP (T)} (moved)
Order II. "*Herpetosiphonales*"
Family I. "*Herpetosiphonaceae*"
Genus I. *Herpetosiphon*^{AL}
- Phylum BVII. *Thermomicrobia* phy. nov.
Class I. *Thermomicrobia* class. nov.
Order I. *Thermomicrobiales* ord. nov. (T)
Family I. *Thermomicrobiaceae* fam. nov.
Genus I. *Thermomicrobium*^{AL (T)}
- Phylum BVIII. *Nitrospira* phy. nov.
Class I. "*Nitrospira*"
Order I. "*Nitrospirales*"
Family I. "*Nitrospiraceae*"
Genus I. *Nitrospira*^{VP}
Genus II. *Leptospirillum*^{VP}
Genus III. *Magnetobacterium*^{VP}
Genus IV. *Thermodesulfovibrio*^{VP}
- Phylum BIX. *Deferribacteres* phy. nov.
Class I. *Deferribacteres* class. nov.
Order I. *Deferribacterales* ord. nov. (T)
Family I. *Deferribacteraceae* fam. nov.
Genus I. *Deferribacter*^{VP (T)}
Genus II. *Denitrovibrio*^{VP}
Genus III. *Flexistipes*^{VP}
Genus IV. *Geovibrio*^{VP}
Genera incertae sedis
Genus I. *Synergistes*^{VP}
- Phylum BX. *Cyanobacteria*
Class I. "*Cyanobacteria*"
Subsection I.
Family I.
Form genus I. *Chamaesiphon*^{VP}
Form genus II. *Chroococcus*^{VP}
Form genus III. *Cyanobacterium*^{VP}
Form genus IV. *Cyanobium*^{VP}
Form genus V. *Cyanothece*^{VP}
Form genus VI. *Dactylococcopsis*^{VP}
Form genus VII. *Gloeobacter*^{VP}
Form genus VIII. *Gloeocapsa*^{VP}
Form genus IX. *Gloeothece*^{VP}
Form genus X. *Microcystis*^{VP}
Form genus XI. *Prochlorococcus*^{VP}
Form genus XII. *Prochloron*^{VP}
Form genus XIII. *Synechococcus*^{VP}
Form genus XIV. *Synechocystis*^{VP}
Subsection II.
Family I.
Form genus I. *Cyanocystis*^{VP}

Form genus II. Dermocarpella^{VP}

Form genus III. Stanieria^{VP}

Form genus IV. Xenococcus^{VP}

Family II.

Form genus I. Chroococcidiopsis^{VP}

Form genus II. Myxosarcina^{VP}

Form genus III. Pleurocapsa^{VP}

Subsection III.

Family I.

Form genus I. Arthrospira^{VP}

Form genus II. Borzia^{VP}

Form genus III. Crinalium^{VP}

Form genus IV. Geitlerinema^{VP}

Genus V. ***Halospirulina***^{VP}

Form genus VI. Leptolyngbya^{VP}

Form genus VII. Limnothrix^{VP}

Form genus VIII. Lyngbya^{VP}

Form genus IX. Microcoleus^{VP}

Form genus X. Oscillatoria^{VP}

Form genus XI. Planktothrix^{VP}

Form genus XII. Prochlorothrix^{VP}

Form genus XIII. Psuedanabaena^{VP}

Form genus XIV. Spirulina^{VP}

Form genus XV. Starria^{VP}

Form genus XVI. Symploca^{VP}

Genus XVII. *Trichodesmium*^{VP}

Form genus XVIII. Tychonema^{VP}

Subsection IV.

Family I.

Form genus I. Anabaena^{VP}

Form genus II. Anabaenopsis^{VP}

Form genus III. Aphanizomenon^{VP}

Form genus IV. Cyanospira^{VP}

Form genus V. Cylandrospermopsis^{VP}

Form genus VI. Cylandrospermum^{VP}

Form genus VII. Nodularia^{VP}

Form genus VIII. Nostoc^{VP}

Form genus IX. Scytonema^{VP}

Family II.

Form genus I. Calothrix^{VP}

Form genus II. Rivularia^{VP}

Form genus III. Tolypothrix^{VP}

Subsection V.

Family I.

Form genus I. Chlorogloeopsis^{VP}

Form genus II. Fischerella^{VP}

Form genus III. Geitleria^{VP}

Form genus IV. Iyengariella^{VP}

Form genus V. Nostochopsis^{VP}

Form genus VI. Stigonema^{VP}

Phylum BXI. *Chlorobi phy. nov.*

Class I. "*Chlorobia*"

Order I. *Chlorobiales*^{AL}

Family I. *Chlorobiaceae*^{AL}

Genus I. *Chlorobium*^{AL}

Taxonomic Outline of the Procaryotes

- Genus II. *Ancalochloris*^{AL}
- Genus III. *Chloroherpeton*^{VP}
- Genus IV. *Pelodictyon*^{AL}
- Genus V. *Prosthecochloris*^{AL}
- Phylum BXII. *Proteobacteria* phy. nov.
- Class I. "Alphaproteobacteria"
- Order I. *Rhodospirillales*^{AL}
 - Family I. *Rhodospirillaceae*^{AL}
 - Genus I. *Rhodospirillum*^{AL}
 - Genus II. *Azospirillum*^{AL}
 - Genus III. *Magnetospirillum*^{VP}
 - Genus IV. *Phaeospirillum*^{VP}
 - Genus V. *Rhodocista*^{VP}
 - Genus VI. *Rhodospira*^{VP}
 - Genus VII. *Rhodothalassium*^{VP}
 - Genus VIII. *Rhodovibrio*^{VP}
 - Genus IX. *Roseospira*^{VP}
 - Genus X. *Skermanella*^{VP}
 - Family II. *Acetobacteraceae*^{VP}
 - Genus I. *Acetobacter*^{AL}
 - Genus II. *Acidiphilium*^{VP}
 - Genus III. ***Acidisphaera***^{VP}
 - Genus IV. *Acidocella*^{VP}
 - Genus V. *Acidomonas*^{VP}
 - Genus VI. ***Asaia***^{VP}
 - Genus VII. *Craurococcus*^{VP}
 - Genus VIII. *Gluconacetobacter*^{VP}
 - Genus IX. *Gluconobacter*^{AL}
 - Genus X. *Paracraurococcus*^{VP}
 - Genus XI. *Rhodopila*^{VP}
 - Genus XII. *Roseococcus*^{VP}
 - Genus XIII. *Stella*^{VP}
 - Genus XIV. *Zavarzinia*^{VP}
- Order II. *Rickettsiales*^{AL}
 - Family I. *Rickettsiaceae*^{AL}
 - Genus I. *Rickettsia*^{AL}
 - Genus II. *Orientia*^{VP}
 - Genus III. *Wolbachia*^{AL}
 - Family II. *Ehrlichiaeae*^{AL}
 - Genus I. *Ehrlichia*^{AL}
 - Genus II. *Aegyptianella*^{AL}
 - Genus III. *Anaplasma*^{AL}
 - Genus IV. *Cowdria*^{AL}
 - Genus V. *Neorickettsia*^{AL}
 - Genus VI. ***Xenohaliotis***^{VP}
 - Family III. "Holosporaceae"
 - Genus I. *Holospora*^{VP}
 - Genus II. *Caedibacter*^{VP}
 - Genus III. *Lyticum*^{VP}
 - Genus IV. *Polynucleobacter*^{VP}
 - Genus V. *Pseudocaedibacter*^{VP}
 - Genus VI. *Symbiotes*^{AL}
 - Genus VII. *Tectibacter*^{VP}
 - Genus VIII. ***Odyssella***^{VP}
- Order III. "Rhodobacterales"

Family I. "Rhodobacteraceae"

- Genus I. *Rhodobacter*^{VP}
- Genus II. *Ahrensia*^{VP}
- Genus III. *Amaricoccus*^{VP}
- Genus IV. *Antarctobacter*^{VP}
- Genus V. *Gemmobacter*^{VP}
- Genus VI. *Hirschia*^{VP}
- Genus VII. *Hyphomonas*^{VP}
- Genus VIII. *Maricaulis*^{VP}
- Genus IX. ***Methylarcula***^{VP}
- Genus X. *Octadecabacter*^{VP}
- Genus XI. *Paracoccus*^{AL}
- Genus XII. *Rhodovulum*^{VP}
- Genus XIII. ***Roseibium***^{VP}
- Genus XIV. ***Roseinatronobacter***^{VP}
- Genus XV. *Roseivivax*^{VP}
- Genus XVI. *Roseobacter*^{VP}
- Genus XVII. *Roseovarius*^{VP}
- Genus XVIII. *Rubrimonas*^{VP}
- Genus XIX. *Ruegeria*^{VP}
- Genus XX. *Sagittula*^{VP}
- Genus XXI. *Staleyia*^{VP}
- Genus XXII. *Stappia*^{VP}
- Genus XXIII. *Sulfitobacter*^{VP}

Order IV. "Sphingomonadales"

Family I. ***Sphingomonadaceae***^{VP}

- Genus I. *Sphingomonas*^{VP (T)}
- Genus II. *Blastomonas*^{VP}
- Genus III. *Erythrobacter*^{VP}
- Genus IV. *Erythromicrobium*^{VP}
- Genus V. *Erythromonas*^{VP}
- Genus VI. *Porphyrobacter*^{VP}
- Genus VII. *Rhizomonas*^{VP}
- Genus VIII. *Sandaracinobacter*^{VP}
- Genus IX. *Zymomonas*^{AL}

Order V. *Caulobacterales*^{AL}

Family I. *Caulobacteraceae*^{AL}

- Genus I. *Caulobacter*^{AL}
- Genus II. *Asticcacaulis*^{AL}
- Genus III. *Brevundimonas*^{VP}
- Genus IV. *Phenylobacterium*^{VP}

Order VI. "Rhizobiales"

Family I. *Rhizobiaceae*^{AL}

- Genus I. *Rhizobium*^{AL}
- Genus II. *Agrobacterium*^{AL}
- Genus III. *Carbophilus*^{VP}
- Genus IV. *Chelatobacter*^{VP}
- Genus V. *Ensifer*^{VP}
- Genus VI. *Sinorhizobium*^{VP}

Family II. *Bartonellaceae*^{AL}

- Genus I. *Bartonella*^{AL}

Family III. *Brucellaceae*^{AL}

- Genus I. *Brucella*^{AL}
- Genus II. *Mycoplana*^{AL}
- Genus III. *Ochrobactrum*^{VP}

Taxonomic Outline of the Procaryotes

- Family IV. "Phyllobacteriaceae"
 - Genus I. *Phyllobacterium*^{VP}
 - Genus II. *Allorhizobium*^{VP}
 - Genus III. *Aminobacter*^{VP}
 - Genus IV. *Aquamicrobium*^{VP}
 - Genus V. *Defluviibacter*^{VP}
 - Genus VI. *Mesorhizobium*^{VP}
 - Genus VII. *Pseudaminobacter*^{VP}
 - Family V. "Methylocystaceae"
 - Genus I. *Methylocystis*^{VP}
 - Genus II. *Methylopila*^{VP}
 - Genus III. *Methylosinus*^{VP}
 - Family VI. "Beijerinckiaceae"
 - Genus I. *Beijerinckia*^{AL}
 - Genus II. *Chelatococcus*^{VP}
 - Genus III. *Derxia*^{AL}
 - Genus IV. ***Methylocella***^{VP}
 - Family VII. "Bradyrhizobiaceae"
 - Genus I. *Bradyrhizobium*^{VP}
 - Genus II. *Afipia*^{VP}
 - Genus III. *Agromonas*^{VP}
 - Genus IV. *Blastobacter*^{AL}
 - Genus V. *Bosea*^{VP}
 - Genus VI. *Nitrobacter*^{AL}
 - Genus VII. *Oligotropha*^{VP}
 - Genus VIII. *Rhodopseudomonas*^{AL}
 - Family VIII. "Hyphomicrobiaceae"^{AL}
 - Genus I. *Hyphomicrobium*^{AL}
 - Genus II. *Ancalomicrobium*^{AL}
 - Genus III. *Ancylobacter*^{VP}
 - Genus IV. *Angulomicrobium*^{VP}
 - Genus V. *Aquabacter*^{VP}
 - Genus VI. *Azorhizobium*^{VP}
 - Genus VII. *Blastochloris*^{VP}
 - Genus VIII. *Devosia*^{VP}
 - Genus IX. *Dichotomicrobium*^{VP}
 - Genus X. *Filomicrobium*^{VP}
 - Genus XI. *Gemmiger*^{AL}
 - Genus XII. *Labrys*^{VP}
 - Genus XIII. *Methylorhabdus*^{VP}
 - Genus XIV. *Pedomicrobium*^{AL}
 - Genus XV. *Prosthecomicrobium*^{AL}
 - Genus XVI. *Rhodomicrobium*^{AL}
 - Genus XVII. *Rhodoplanes*^{VP}
 - Genus XVIII. *Seliberia*^{AL}
 - Genus XIX. ***Starkeya***^{VP}
 - Genus XX. *Xanthobacter*^{AL}
 - Family IX. "Methylobacteriaceae"
 - Genus I. *Methylobacterium*^{AL}
 - Genus II. *Protomonas*^{VP}
 - Genus III. *Roseomonas*^{VP}
 - Family X. "Rhodobiaceae"
 - Genus I. *Rhodobium*^{VP}
- Class II. "Betaproteobacteria"
Order I. "Burkholderiales"

- Family I. "Burkholderiaceae"
 Genus I. *Burkholderia*^{VP}
 Genus II. *Cupriavidus*^{VP}
 Genus III. *Lautropia*^{VP}
 Genus IV. ***Pandoraea***^{VP}
 Genus V. *Thermothrix*^{VP}
- Family II. "Ralstoniaceae"
 Genus I. *Ralstonia*^{VP}
- Family III. "Oxalobacteraceae"
 Genus I. *Oxalobacter*^{VP}
 Genus II. *Duganella*^{VP}
 Genus III. *Herbaspirillum*^{VP}
 Genus IV. *Janthinobacterium*^{AL}
 Genus V. ***Massilia***^{VP}
 Genus VI. *Telluria*^{VP}
- Family IV. Alcaligenaceae^{VP}
 Genus I. *Alcaligenes*^{AL}
 Genus II. *Achromobacter*^{VP}
 Genus III. *Bordetella*^{AL}
 Genus IV. *Pelistega*^{VP}
 Genus V. *Sutterella*^{VP}
 Genus VI. *Taylorella*^{VP}
- Family V. Comamonadaceae^{VP}
 Genus I. *Comamonas*^{VP}
 Genus II. *Acidovorax*^{VP}
 Genus III. *Aquabacterium*^{VP}
 Genus IV. *Brachymonas*^{VP}
 Genus V. *Delftia*^{VP}
 Genus VI. *Hydrogenophaga*^{VP}
 Genus VII. *Ideonella*^{VP}
 Genus VIII. *Leptothrix*^{AL}
 Genus IX. *Polaromonas*^{VP}
 Genus X. *Rhodoferax*^{VP}
 Genus XI. *Roseateles*^{VP}
 Genus XII. *Rubrivivax*^{VP}
 Genus XIII. *Sphaerotilus*^{AL}
 Genus XIV. ***Tepidimonas***^{VP}
 Genus XV. *Thiomonas*^{VP}
 Genus XVI. *Variovorax*^{VP}
- Order II. "Hydrogenophilales"
 Family I. "Hydrogenophilaceae"
 Genus I. *Hydrogenophilus*^{VP}
 Genus II. *Thiobacillus*^{AL}
- Order III. "Methylophilales"
 Family I. "Methylophilaceae"
 Genus I. *Methylophilus*^{VP}
 Genus II. *Methylobacillus*^{AL}
 Genus III. *Methylovorus*^{VP}
- Order IV. "Neisseriales"
 Family I. Neisseriaceae^{AL}
 Genus I. *Neisseria*^{AL}
 Genus II. *Alysiella*^{AL}
 Genus III. *Aquaspirillum*^{AL}
 Genus IV. *Catenococcus*^{VP}
 Genus V. *Chromobacterium*^{AL}

- Genus VI. Eikenella*^{AL}
Genus VII. Formivibrio^{VP}
Genus VIII. Iodobacter^{VP}
Genus IX. Kingella^{AL}
Genus X. Microvirgula^{VP}
Genus XI. Prolinoborus^{VP}
Genus XII. Simonsiella^{AL}
Genus XIII. Vitreoscilla^{AL}
Genus XIV. Vogesella^{VP}
- Order V. "Nitrosomonadales"
- Family I. "Nitrosomonadaceae"
- Genus I. Nitrosomonas*^{AL}
Genus II. Nitrospira^{AL}
- Family II. Spirillaceae^{AL}
- Genus I. Spirillum*^{AL}
- Family III. Gallionellaceae^{AL}
- Genus I. Gallionella*^{AL}
- Order VI. "Rhodocyclales"
- Family I. "Rhodocyclaceae"
- Genus I. Rhodocyclus*^{AL}
Genus II. Azoarcus^{VP}
Genus III. Azonexus^{VP}
Genus IV. Azospira^{VP}
Genus V. Azovibrio^{VP}
Genus VI. Ferribacterium^{VP}
Genus VII. Propionibacter^{VP}
Genus VIII. Propionivibrio^{VP}
- Genus IX. Thauera*^{VP}
Genus X. Zoogloea^{AL}
- Class III. "Gammaproteobacteria"
- Order I. "Chromatiales"
- Family I. Chromatiaceae^{AL}
- Genus I. Chromatium*^{AL}
Genus II. Allochromatium^{VP}
Genus III. Amoebobacter^{AL}
Genus IV. Halochromatium^{VP}
Genus V. Halothiobacillus^{VP}
Genus VI. Isochromatium^{VP}
Genus VII. Lamprobacter^{VP}
Genus VIII. Lamprocystis^{AL}
Genus IX. Marichromatium^{VP}
Genus X. Nitrosococcus^{AL}
Genus XI. Pfennigia^{VP}
Genus XII. Rhabdochromatium^{VP}
Genus XIII. Thermochromatium^{VP}
Genus XIV. Thioalkalicoccus^{VP}
Genus XV. Thiocapsa^{AL}
Genus XVI. Thiococcus^{VP}
Genus XVII. Thiocystis^{AL}
Genus XVIII. Thiodictyon^{AL}
Genus XIX.
Genus XX. Thiohalocapsa^{VP}
Genus XXI. Thiolamprovum^{VP}
Genus XXII. Thiopedia^{AL}

- Genus XXIII. Thiorhodococcus*^{VP}
Genus XXIV. Thiorhodovibrio^{VP}
Genus XXV. Thiospirillum^{AL}
 Family II. *Ectothiorhodospiraceae*^{VP}
Genus I. Ectothiorhodospira^{AL}
Genus II. Arhodomonas^{VP}
Genus III. Halorhodospira^{VP}
Genus IV. Nitrococcus^{AL}
Genus V. Thiorhodospira^{VP}
 Order II. ***Acidithiobacillales***^{VP}
 Family I. ***Acidithiobacillaceae***^{VP}
Genus I. Acidithiobacillus^{VP (T)}
 Family II. ***Thermithiobacillaceae***^{VP}
Genus I. Thermithiobacillus^{VP (T)}
 Order III. "Xanthomonadales"
 Family I. "Xanthomonadaceae"
Genus I. Xanthomonas^{AL}
Genus II. Frateuria^{VP}
Genus III. Luteimonas^{VP}
Genus IV. Lysobacter^{AL}
Genus V. Nevskia^{AL}
Genus VI. Pseudoxanthomonas^{VP}
Genus VII. Rhodanobacter^{VP}
Genus VIII. Stenotrophomonas^{VP}
Genus IX. Xylella^{VP}
 Order IV. "Cardiobacteriales"
 Family I. *Cardiobacteriaceae*^{VP}
Genus I. Cardiobacterium^{AL}
Genus II. Dichelobacter^{VP}
Genus III. Suttonella^{VP}
 Order V. "Thiotrichales"
 Family I. "Thiotrichaceae"
Genus I. Thiothrix^{AL}
Genus II. Achromatium^{AL}
Genus III. Beggiatoa^{AL}
Genus IV. Leucothrix^{AL}
Genus V. Macromonas^{AL}
Genus VI. Thiobacterium^{VP}
Genus VII. Thiomargarita^{VP}

Genus VIII. Thioploca^{AL}
Genus IX. Thiospira^{AL}
 Family II. "Piscirickettsiaceae"
Genus I. Piscirickettsia^{VP}
Genus II. Cycloclasticus^{VP}
Genus III. Hydrogenovibrio^{VP}
Genus IV. Methylophaga^{VP}
Genus V. Thiomicrospira^{AL}
 Family III. "Francisellaceae"
Genus I. Francisella^{AL}
 Order VI. "Legionellales"
 Family I. *Legionellaceae*^{AL}
Genus I. Legionella^{AL}
 Family II. "Coxiellaceae"
Genus I. Coxiella^{AL}

- Genus II. Rickettsiella*^{AL}
- Order VII. "Methylococcales"
- Family I. *Methylococcaceae*^{VP}
- Genus I. Methylococcus*^{AL}
- Genus II. Methylobacter*^{VP}
- Genus III. Methylocaldum*^{VP}
- Genus IV. Methylomicrobium*^{VP}
- Genus V. Methylomonas*^{VP}
- Genus VI. Methylosphaera*^{VP}
- Order VIII. "Oceanspirillales"
- Family I. "Oceanspirillaceae"
- Genus I. Oceanspirillum*^{AL}
- Genus II. Balneatrix*^{VP}
- Genus III. Fundibacter*^{VP}
- Genus IV. Marinomonas*^{VP}
- Genus V. Marinospirillum*^{VP}
- Genus VI. Neptunomonas*^{VP}
- Family II. *Halomonadaceae*^{VP}
- Genus I. Halomonas*^{VP}
- Genus II. Alcanivorax*^{VP}
- Genus III. Carnimonas*^{VP}
- Genus IV. Chromohalobacter*^{VP}
- Genus V. Deleya*^{VP}
- Genus VI. Zymobacter*^{VP}
- Order IX. *Pseudomonadales*^{AL}
- Family I. *Pseudomonadaceae*^{AL}
- Genus I. Pseudomonas*^{AL}
- Genus II. Azomonas*^{AL}
- Genus III. Azotobacter*^{AL}
- Genus IV. Cellvibrio*^{VP}
- Genus V. Chryseomonas*^{VP}
- Genus VI. Flavimonas*^{VP}
- Genus VII. Lampropedia*^{AL}
- Genus VIII. Mesophilobacter*^{VP}
- Genus IX. Morococcus*^{VP}
- Genus X. Oligella*^{VP}
- Genus XI. Rhizobacter*^{VP}
- Genus XII. Rugamonas*^{VP}
- Genus XIII. Serpens*^{AL}
- Genus XIV. Thermoleophilum*^{VP}
- Genus XV. Xylophilus*^{VP}
- Family II. *Moraxellaceae*^{VP}
- Genus I. Moraxella*^{AL}
- Genus II. Acinetobacter*^{AL}
- Genus III. Psychrobacter*^{VP}
- Order X. "Alteromonadales"
- Family I. "Alteromonadaceae"
- Genus I. Alteromonas*^{AL}
- Genus II. Allishewanella*^{VP}
- Genus III. Colwellia*^{VP}
- Genus IV. Ferrimonas*^{VP}
- Genus V. Glaciecicola*^{VP}
- Genus VI. Idiomarina*^{VP}
- Genus VII. Marinobacter*^{VP}
- Genus VIII. Marinobacterium*^{VP}

- Genus IX. *Microbulbifer*^{VP}
 Genus X. *Moritella*^{VP}
 Genus XI. *Pseudoalteromonas*^{VP}
 Genus XII. *Shewanella*^{VP}
- Order XI. "Vibrionales"
- Family I. *Vibrionaceae*^{AL}
- Genus I. *Vibrio*^{AL}
 Genus II. *Allomonas*^{VP}
 Genus III. *Enhydrobacter*^{VP}
 Genus IV. *Listonella*^{VP}
 Genus V. *Photobacterium*^{AL}
 Genus VI. *Salinivibrio*^{VP}
- Order XII. "Aeromonadales"
- Family I. *Aeromonadaceae*^{VP}
- Genus I. *Aeromonas*^{AL}
 Genus II. ***Oceanomonas***^{VP}
 Genus III. *Tolomonas*^{VP}
- Family II. *Succinivibrionaceae*^{VP}
- Genus I. *Succinivibrio*^{AL}
 Genus II. *Anaerobiospirillum*^{AL}
 Genus III. *Ruminobacter*^{VP}
 Genus IV. *Succinimonas*^{VP}
- Order XIII. "Enterobacteriales"
- Family I. *Enterobacteriaceae*^{AL}
- Genus I. *Enterobacter*^{AL}
 Genus II. *Alterococcus*^{VP}
 Genus III. *Arsenophonus*^{VP}
 Genus IV. *Brenneria*^{VP}
 Genus V. *Buchnera*^{VP}
 Genus VI. *Budvicia*^{VP}
 Genus VII. *Buttiauxella*^{VP}
 Genus VIII. *Calymmatobacterium*^{VP}
 Genus IX. *Cedecea*^{VP}
 Genus X. *Citrobacter*^{AL}
 Genus XI. *Edwardsiella*^{AL}
 Genus XII. *Erwinia*^{AL}
 Genus XIII. *Escherichia*^{AL}
 Genus XIV. *Ewingella*^{VP}
 Genus XV. *Hafnia*^{AL}
 Genus XVI. *Klebsiella*^{AL}
 Genus XVII. *Kluyvera*^{VP}
 Genus XVIII. *Leclercia*^{VP}
 Genus XIX. *Leminorella*^{VP}
 Genus XX. *Moellerella*^{VP}
 Genus XXI. *Morganella*^{AL}
 Genus XXII. *Obesumbacterium*^{AL}
 Genus XXIII. *Pantoea*^{VP}
 Genus XXIV. *Pectobacterium*^{AL}
 Genus XXV. *Photorhabdus*^{VP}
 Genus XXVI. *Plesiomonas*^{AL}
 Genus XXVII. *Pragia*^{VP}
 Genus XXVIII. *Proteus*^{AL}
 Genus XXIX. *Providencia*^{AL}
 Genus XXX. *Rahnella*^{VP}
 Genus XXXI. *Saccharobacter*^{VP}

- Genus XXXII. *Salmonella*^{AL}
- Genus XXXIII. *Serratia*^{AL}
- Genus XXXIV. *Shigella*^{AL}
- Genus XXXV. *Sodalis*^{VP}
- Genus XXXVI. *Tatumella*^{VP}
- Genus XXXVII. *Trabulsiella*^{VP}
- Genus XXXVIII. *Wigglesworthia*^{VP}
- Genus XXXIX. *Xenorhabdus*^{AL}
- Genus XL. *Yersinia*^{AL}
- Genus XLI. *Yokenella*^{VP}
- Order XIV. "Pasteurellales"
 - Family I. *Pasteurellaceae*^{VP}
 - Genus I. *Pasteurella*^{AL}
 - Genus II. *Actinobacillus*^{AL}
 - Genus III. *Haemophilus*^{AL}
 - Genus IV. *Lonepinella*^{VP}
 - Genus V. *Mannheimia*^{VP}
 - Genus VI. *Phocoenobacter*^{VP}
- Class IV. "Deltaproteobacteria"
 - Order I. "Desulfurellales"
 - Family I. "Desulfurellaceae"
 - Genus I. *Desulfurella*^{VP}
 - Genus II. *Hippea*^{VP}
 - Order II. "Desulfovibrionales"
 - Family I. "Desulfovibrionaceae"
 - Genus I. *Desulfovibrio*^{AL}
 - Genus II. *Bilophila*^{VP}
 - Genus III. *Lawsonia*^{VP}
 - Family II. "Desulfomicrobiaceae"
 - Genus I. *Desulfomicrobium*^{VP}
 - Family III. "Desulfohalobiaceae"
 - Genus I. *Desulfohalobium*^{VP}
 - Genus II. *Desulfomonas*^{AL}
 - Genus III. *Desulfonatronovibrio*^{VP}
 - Family IV. "Desulfonatronumaceae"
 - Genus I. *Desulfonatronum*^{VP}
 - Order III. "Desulfobacterales"
 - Family I. "Desulfobacteraceae"
 - Genus I. *Desulfobacter*^{VP}
 - Genus II. *Desulfobacterium*^{VP}
 - Genus III. ***Desulfobacula***^{VP}
 - Genus IV. *Desulfocella*^{VP}
 - Genus V. *Desulfococcus*^{VP}
 - Genus VI. *Desulfofaba*^{VP}
 - Genus VII. *Desulfofrigus*^{VP}
 - Genus VIII. *Desulfonema*^{VP}
 - Genus IX. *Desulfosarcina*^{VP}
 - Genus X. *Desulfospira*^{VP}
 - Genus XI. *Desulfotalea*^{VP}
 - Genus XII. ***Desulfotignum***^{VP}
 - Family II. "Desulfobulbaceae"
 - Genus I. *Desulfobulbus*^{VP}
 - Genus II. *Desulfocapsa*^{VP}
 - Genus III. *Desulfofustis*^{VP}
 - Genus IV. *Desulforhopalus*^{VP}

- Family III. "Nitrospinaceae"*
Genus I. Nitrospina^{AL}
Genus II. Desulfobacca^{VP}
Genus III. Desulfomonile^{VP}
- Order IV. "Desulfuromonadales"
Family I. "Desulfuromonadaceae"
Genus I. Desulfuromonas^{AL}
Genus II. Desulfuromusa^{VP}
Family II. "Geobacteraceae"
Genus I. Geobacter^{VP}
Family III. "Pelobacteraceae"
Genus I. Pelobacter^{VP}
Genus II. Malonomonas^{VP}
*Genus III. **Trichlorobacter***^{VP}
- Order V. "Syntrophobacterales"
Family I. "Syntrophobacteraceae"
Genus I. Syntrophobacter^{VP}
Genus II. Desulfacinum^{VP}
Genus III. Desulforhabdus^{VP}
*Genus IV. **Desulfovirga***^{VP}
Genus V. Thermodesulforhabdus^{VP}
Family II. "Syntrophaceae"
Genus I. Syntrophus^{VP}
Genus II. Smithella^{VP}
- Order VI. "Bdellovibrionales"
Family I. "Bdellovibrionaceae"
Genus I. Bdellovibrio^{AL}
*Genus II. **Bacteriovorax***^{VP}
Genus III. Micavibrio^{VP}
Genus IV. Vampirovibrio^{VP}
- Order VII. Myxococcales^{AL}
Family I. Myxococcaceae^{AL}
Genus I. Myxococcus^{AL}
Genus II. Angiococcus^{VP}
Family II. Archangiaceae^{AL}
Genus I. Archangium^{AL}
Family III. Cystobacteraceae^{AL}
Genus I. Cystobacter^{AL}
Genus II. Melittangium^{AL}
Genus III. Stigmatella^{AL}
Family IV. Polyangiaceae^{AL}
Genus I. Polyangium^{AL}
Genus II. Chondromyces^{AL}
Genus III. Nannocystis^{VP}
- Class V. "Epsilonproteobacteria"
 Order I. "Campylobacterales"
Family I. Campylobacteraceae^{VP}
Genus I. Campylobacter^{AL}
Genus II. Arcobacter^{VP}
Genus III. Sulfurospirillum^{VP}
Genus IV. Thiovulum^{AL}
Family II. "Helicobacteraceae"
Genus I. Helicobacter^{VP}
Genus II. Wolinella^{VP}
- Phylum BXIII. Firmicutes^{AL}

Class I. "Clostridia"

Order I. Clostridiales^{AL}

Family I. Clostridiaceae^{AL}

- Genus I. Clostridium^{AL}
- Genus II. Acetivibrio^{VP}
- Genus III. Acidaminobacter^{VP}
- Genus IV. Anaerobacter^{VP}
- Genus V. Caloramator^{VP}
- Genus VI. **Coprobacillus**^{VP}
- Genus VII. Natronincola^{VP}
- Genus VIII. Oxobacter^{VP}
- Genus IX. Sarcina^{AL}
- Genus X. Sporobacter^{VP}
- Genus XI. Thermobrachium^{VP}
- Genus XII. **Thermohalobacter**^{VP}
- Genus XIII. Tindallia^{VP}

Family II. "Lachnospiraceae"

- Genus I. Lachnospira^{AL}
- Genus II. Acetitamaculum^{VP}
- Genus III. Anaerofilum^{VP}
- Genus IV. Butyrivibrio^{AL}
- Genus V. **Catenibacterium**^{VP}
- Genus VI. Catonella^{VP}
- Genus VII. Coprococcus^{AL}
- Genus VIII. Johnsonella^{VP}
- Genus IX. Pseudobutyrvibrio^{VP}
- Genus X. Roseburia^{VP}
- Genus XI. Ruminococcus^{AL}
- Genus XII. Sporobacterium^{VP}

Family III. "Peptostreptococcaceae"

- Genus I. Peptostreptococcus^{AL}
- Genus II. Filifactor^{VP}
- Genus III. **Fingoldia**^{VP}
- Genus IV. Fusibacter^{VP}
- Genus V. Helcococcus^{VP}
- Genus VI. **Micromonas**^{VP}
- Genus VII. Tissierella^{VP}

Family IV. "Eubacteriaceae"

- Genus I. Eubacterium^{AL}
- Genus II. Acetobacterium^{AL}
- Genus III. **Anaerovorax**^{VP}
- Genus IV. **Mogibacterium**^{VP}
- Genus V. Pseudoramibacter^{VP}

Family V. Peptococcaceae^{AL}

- Genus I. Peptococcus^{AL}
- Genus II. Anaeroarcus^{VP}
- Genus III. Anaerosinus^{VP}
- Genus IV. Anaerovibrio^{AL}
- Genus V. Carboxydotherrnus^{VP}
- Genus VI. Centipeda^{VP}
- Genus VII. Dehalobacter^{VP}
- Genus VIII. Dendrosporobacter^{VP}
- Genus IX. Desulfitobacterium^{VP}
- Genus X. Desulfonispora^{VP}
- Genus XI. Desulfosporosinus^{VP}

- Genus XII. *Desulfotomaculum*^{AL}
 Genus XIII. *Mitsuokella*^{VP}
 Genus XIV. *Propionispira*^{VP}
 Genus XV. *Succinispira*^{VP}
 Genus XVI. *Syntrophobotulus*^{VP}
 Genus XVII. *Thermoterrabacterium*^{VP}
 Family VI. "Heliobacteriaceae"
 Genus I. *Heliobacterium*^{VP}
 Genus II. *Heliobacillus*^{VP}
 Genus III. *Heliophilum*^{VP}
 Genus IV. ***Heliorestis***^{VP}
 Family VII. "Acidaminococcaceae"
 Genus I. *Acidaminococcus*^{AL}
 Genus II. *Acetonema*^{VP}
 Genus III. *Anaeromusa*^{VP}
 Genus IV. *Dialister*^{VP}
 Genus V. *Megasphaera*^{AL}
 Genus VI. ***Papillibacter***^{VP}
 Genus VII. *Pectinatus*^{AL}
 Genus VIII. *Phascolarctobacterium*^{VP}
 Genus IX. *Quinella*^{VP}
 Genus X. *Schwartzia*^{VP}
 Genus XI. *Selenomonas*^{AL}
 Genus XII. *Sporomusa*^{VP}
 Genus XIII. *Succiniclasticum*^{VP}
 Genus XIV. *Veillonella*^{AL}
 Genus XV. *Zymophilus*^{VP}
 Family VIII. *Syntrophomonadaceae*^{VP}
 Genus I. *Syntrophomonas*^{VP}
 Genus II. *Acetogenium*^{VP}
 Genus III. *Aminobacterium*^{VP}
 Genus IV. *Aminomonas*^{VP}
 Genus V. *Anaerobaculum*^{VP}
 Genus VI. *Anaerobranca*^{VP}
 Genus VII. *Caldicellulosiruptor*^{VP}
 Genus VIII. *Dethiosulfovibrio*^{VP}
 Genus IX. ***Pelospora***^{VP}
 Genus X. *Syntrophospora*^{VP}
 Genus XI. ***Syntrophothermus***^{VP}
 Genus XII. *Thermaerobacter*^{VP}
 Genus XIII. *Thermanaerovibrio*^{VP}
 Genus XIV. *Thermohydrogenium*^{VP}
 Genus XV. *Thermosyntropha*^{VP}
 Order II. "Thermoanaerobacteriales"
 Family I. "Thermoanaerobacteriaceae"
 Genus I. *Thermoanaerobacterium*^{VP}
 Genus II. *Ammonifex*^{VP}
 Genus III. ***Carboxydoabrachium***^{VP}
 Genus IV. *Coprothermobacter*^{VP}
 Genus V. *Moorella*^{VP}
 Genus VI. *Sporotomaculum*^{VP}
 Genus VII. ***Thermacetogenium***^{VP}
 Genus VIII. *Thermoanaerobacter*^{VP}
 Genus IX. *Thermoanaerobium*^{VP}
 Order III. *Haloanaerobiales*^{VP}

- Family I. Haloanaerobiaceae*^{VP}
Genus I. Haloanaerobium^{VP}
Genus II. Halocella^{VP}
Genus III. Halothermothrix^{VP}
Genus IV. Natroniella^{VP}
Family II. Halobacteroidaceae^{VP}
Genus I. Halobacteroides^{VP}
Genus II. Acetohalobium^{VP}
Genus III. Haloanaerobacter^{VP}
Genus IV. Orenia^{VP}
Genus V. Sporohalobacter^{VP}
- Class II. *Mollicutes*^{AL}
- Order I. *Mycoplasmatales*^{AL}
- Family I. Mycoplasmataceae*^{AL}
Genus I. Mycoplasma^{AL}
Genus II. Eperythrozoon^{AL}
Genus III. Haemobartonella^{AL}
Genus IV. Ureaplasma^{AL}
- Order II. *Entomoplasmatales*^{VP}
- Family I. Entomoplasmataceae*^{VP}
Genus I. Entomoplasma^{VP}
Genus II. Mesoplasma^{VP}
Family II. Spiroplasmataceae^{VP}
Genus I. Spiroplasma^{AL}
- Order III. *Acholeplasmatales*^{VP}
- Family I. Acholeplasmataceae*^{AL}
Genus I. Acholeplasma^{AL}
- Order IV. *Anaeroplasmatales*^{VP}
- Family I. Anaeroplasmataceae*^{VP}
Genus I. Anaeroplasma^{AL}
Genus II. Asteroleplasma^{VP}
- Order V. *Incertae sedis*
- Family I. "Erysipelotrichaceae"*
Genus I. Erysipelothrix^{AL}
*Genus II. **Bulleidia***^{VP}
Genus III. Holdemania^{VP}
*Genus IV. **Solobacterium***^{VP}
- Class III. "*Bacilli*"
- Order I. *Bacillales*^{AL}
- Family I. Bacillaceae*^{AL}
Genus I. Bacillus^{AL}
Genus II. Amphibacillus^{VP}
*Genus III. **Anoxybacillus***^{VP}
Genus IV. Exiguobacterium^{VP}
Genus V. Gracilibacillus^{VP}
Genus VI. Halobacillus^{VP}
Genus VII. Saccharococcus^{VP}
Genus VIII. Salibacillus^{VP}
Genus IX. Virgibacillus^{VP}
Family II. Planococcaceae^{AL}
Genus I. Planococcus^{AL}
Genus II. Filibacter^{VP}
Genus III. Kurthia^{AL}
Genus IV. Sporosarcina^{AL}
Family III. Caryophanaceae^{AL}

- Genus I. *Caryophanon*^{AL}
 Family IV. "Listeriaceae"
 Genus I. *Listeria*^{AL}
 Genus II. *Brochothrix*^{AL}
 Family V. "Staphylococcaceae"
 Genus I. *Staphylococcus*^{AL}
 Genus II. *Gemella*^{AL}
 Genus III. *Macrococcus*^{VP}
 Genus IV. *Salinicoccus*^{VP}
 Family VI. "Sporolactobacillaceae"
 Genus I. *Sporolactobacillus*^{AL}
 Genus II. *Marinococcus*^{VP}
 Family VII. "Paenibacillaceae"
 Genus I. *Paenibacillus*^{VP}
 Genus II. *Ammoniphilus*^{VP}
 Genus III. *Aneurinibacillus*^{VP}
 Genus IV. *Brevibacillus*^{VP}
 Genus V. *Oxalophagus*^{VP}
 Genus VI. ***Thermicanus***^{VP}
 Genus VII. *Thermobacillus*^{VP}
 Family VIII. "Alicyclobacillaceae"
 Genus I. *Alicyclobacillus*^{VP}
 Genus II. *Pasteuria*^{AL}
 Genus III. *Sulfobacillus*^{VP}
 Family IX. "Thermoactinomycetaceae"
 Genus I. *Thermoactinomyces*^{AL}
 Order II. "Lactobacillales"
 Family I. *Lactobacillaceae*^{AL}
 Genus I. *Lactobacillus*^{AL}
 Genus II. ***Paralactobacillus***^{VP}
 Genus III. *Pediococcus*^{AL}
 Family II. "Aerococcaceae"
 Genus I. *Aerococcus*^{AL}
 Genus II. *Abiotrophia*^{VP}
 Genus III. *Dolosicoccus*^{VP}
 Genus IV. *Eremococcus*^{VP}
 Genus V. *Facklamia*^{VP}
 Genus VI. *Globicatella*^{VP}
 Genus VII. *Ignavigranum*^{VP}
 Family III. "Carnobacteriaceae"
 Genus I. *Carnobacterium*^{VP}
 Genus II. *Agitococcus*^{VP}
 Genus III. *Alloiococcus*^{VP}
 Genus IV. *Desemzia*^{VP}
 Genus V. *Dolosigranulum*^{VP}
 Genus VI. ***Granulicatella***^{VP}
 Genus VII. *Lactosphaera*^{VP}
 Genus VIII. *Trichococcus*^{VP}
 Family IV. "Enterococcaceae"
 Genus I. *Enterococcus*^{VP}
 Genus II. ***Atopobacter***^{VP}
 Genus III. *Melissococcus*^{VP}
 Genus IV. *Tetragenococcus*^{VP}
 Genus V. *Vagococcus*^{VP}
 Family V. "Leuconostocaceae"

Taxonomic Outline of the Prokaryotes

- Genus I. *Leuconostoc*^{AL}
- Genus II. *Oenococcus*^{VP}
- Genus III. *Weissella*^{VP}
- Family VI. *Streptococcaceae*^{AL}
 - Genus I. *Streptococcus*^{AL}
 - Genus II. *Lactococcus*^{VP}
- Family VII. *Incertae sedis*^{VP}
 - Genus I. *Acetoanaerobium*^{VP}
 - Genus II. *Oscillospira*^{AL}
 - Genus III. *Syntrophococcus*^{VP}
- Phylum BXIV. *Actinobacteria* *phy. nov.*
 - Class I. *Actinobacteria*^{VP}
 - Subclass I. *Acidimicrobidae*^{VP}
 - Order I. *Acidimicrobiales*^{VP}
 - Suborder I. "*Acidimicrobinae*"
 - Family I. *Acidimicrobiaceae*^{VP}
 - Genus I. *Acidimicrobium*^{VP}
 - Subclass II. *Rubrobacteridae*^{VP}
 - Order I. *Rubrobacterales*^{VP}
 - Suborder II. "*Rubrobacterinae*"
 - Family I. *Rubrobacteraceae*^{VP}
 - Genus I. *Rubrobacter*^{VP}
 - Subclass III. *Coriobacteridae*^{VP}
 - Order I. *Coriobacteriales*^{VP}
 - Suborder III. "*Coriobacterinae*"
 - Family I. *Coriobacteriaceae*^{VP}
 - Genus I. *Coriobacterium*^{VP}
 - Genus II. *Atopobium*^{VP}
 - Genus III. *Collinsella*^{VP}
 - Genus IV. *Cryptobacterium*^{VP}
 - Genus V. ***Denitrobacterium***^{VP}
 - Genus VI. *Eggerthella*^{VP}
 - Genus VII. *Slackia*^{VP}
 - Subclass IV. *Sphaerobacteridae*^{VP}
 - Order I. *Sphaerobacterales*^{VP}
 - Suborder IV. "*Sphaerobacterinae*"
 - Family I. *Sphaerobacteraceae*^{VP}
 - Genus I. *Sphaerobacter*^{VP}
 - Subclass V. *Actinobacteridae*^{VP}
 - Order I. *Actinomycetales*^{AL}
 - Suborder V. *Actinomycineae*^{VP}
 - Family I. *Actinomycetaceae*^{AL}
 - Genus I. *Actinomyces*^{AL}
 - Genus II. *Actinobaculum*^{VP}
 - Genus III. *Arcanobacterium*^{VP}
 - Genus IV. *Mobiluncus*^{VP}
 - Suborder VI. *Micrococcineae*^{VP}
 - Family I. *Micrococcaceae*^{AL}
 - Genus I. *Micrococcus*^{AL}
 - Genus II. *Arthrobacter*^{AL}
 - Genus III. *Kocuria*^{VP}
 - Genus IV. *Nesterenkonia*^{VP}
 - Genus V. ***Renibacterium***^{VP} *(moved)*
 - Genus VI. *Rothia*^{AL}
 - Genus VII. *Stomatococcus*^{VP}

- Family II. *Bogoriellaceae*^{VP}
 Genus I. *Bogoriella*^{VP} (moved)
- Family III. *Rarobacteraceae*^{VP}
 Genus I. *Rarobacter*^{VP (T)} (moved)
- Family IV. *Sanguibacteraceae*^{VP}
 Genus I. *Sanguibacter*^{VP (T)}
- Family V. *Brevibacteriaceae*^{AL}
 Genus I. *Brevibacterium*^{AL}
- Family VI. *Cellulomonadaceae*^{VP}
 Genus I. *Cellulomonas*^{AL}
 Genus II. *Oerskovia*^{AL}
- Family VII. *Dermabacteraceae*^{VP}
 Genus I. *Dermabacter*^{VP}
 Genus II. *Brachybacterium*^{VP}
- Family VIII. *Dermatophilaceae*^{AL}
 Genus I. *Dermatophilus*^{AL (T)}
- Family IX. *Dermacoccaceae*^{VP}
 Genus I. *Dermacoccus*^{VP (T)} (moved)
 Genus II. *Demetria*^{VP} (moved)
 Genus III. *Kytococcus*^{VP} (moved)
- Family X. *Intrasporangiaceae*^{VP}
 Genus I. *Intrasporangium*^{AL}
 Genus II. *Janibacter*^{VP}
 Genus III. *Ornithinicoccus*^{VP}
 Genus IV. *Ornithinimicrobium*^{VP}
 Genus V. *Nostocoidia*^{VP}
 Genus VI. *Terrabacter*^{VP}
 Genus VII. *Terracoccus*^{VP}
 Genus VIII. *Tetrasphaera*^{VP}
- Family XI. *Jonesiaceae*^{VP}
 Genus I. *Jonesia*^{VP (T)}
- Family XII. *Microbacteriaceae*^{VP}
 Genus I. *Microbacterium*^{AL (T)}
 Genus II. *Agrococcus*^{VP}
 Genus III. *Agromyces*^{AL}
 Genus IV. *Aureobacterium*^{VP}
 Genus V. *Clavibacter*^{VP}
 Genus VI. *Cryobacterium*^{VP}
 Genus VII. *Curtobacterium*^{AL}
 Genus VIII. *Frigoribacterium*^{VP}
 Genus IX. *Leifsonia*^{VP}
 Genus X. *Leucobacter*^{VP} (moved)
 Genus XI. *Rathayibacter*^{VP}
 Genus XII. *Subtercola*^{VP}
- Family XIII. "Beutenbergiaceae"
 Genus I. *Beutenbergia*^{VP}
- Family XIV. *Promicromonosporaceae*^{VP}
 Genus I. *Promicromonospora*^{AL}
- Suborder VII. *Corynebacterineae*^{VP}
- Family I. *Corynebacteriaceae*^{AL}
 Genus I. *Corynebacterium*^{AL}
- Family II. *Dietziaceae*^{VP}
 Genus I. *Dietzia*^{VP}
- Family III. *Gordoniaceae*^{VP}
 Genus I. *Gordonia*^{VP}

- Genus II. *Skermania*^{VP}
- Family IV. *Mycobacteriaceae*^{AL}
 - Genus I. *Mycobacterium*^{AL}
- Family V. *Nocardiaceae*^{AL}
 - Genus I. *Nocardia*^{AL}
 - Genus II. *Rhodococcus*^{AL}
- Family VI. *Tsukamurellaceae*^{VP}
 - Genus I. *Tsukamurella*^{VP}
- Family VII. *Williamsiaceae*^{VP}
 - Genus I. *Williamsia*^{VP}
- Suborder VIII. *Micromonosporineae*^{VP}
 - Family I. *Micromonosporaceae*^{AL}
 - Genus I. *Micromonospora*^{AL}
 - Genus II. *Actinoplanes*^{AL}
 - Genus III. *Catellatospora*^{VP}
 - Genus IV. *Catenuloplanes*^{VP}
 - Genus V. *Couchioplanes*^{VP}
 - Genus VI. *Dactylosporangium*^{AL}
 - Genus VII. *Pilimelia*^{AL}
 - Genus VIII. *Spirilliplanes*^{VP}
 - Genus IX. *Verrucosispora*^{VP}
- Suborder IX. *Propionibacterineae*^{VP}
 - Family I. *Propionibacteriaceae*^{AL}
 - Genus I. *Propionibacterium*^{AL}
 - Genus II. *Luteococcus*^{VP}
 - Genus III. *Microlunatus*^{VP}
 - Genus IV. *Propioniferax*^{VP}
 - Genus V. *Tessaracoccus*^{VP}
 - Family II. *Nocardioidaceae*^{VP}
 - Genus I. *Nocardioides*^{AL}
 - Genus II. *Aeromicrobium*^{VP}
 - Genus III. *Friedmanniella*^{VP}
 - Genus IV. ***Hongia***^{VP}
 - Genus V. *Kribbella*^{VP}
 - Genus VI. *Micropruina*^{VP}
 - Genus VII. ***Marmoricola***^{VP}
- Suborder X. *Pseudonocardineae*^{VP}
 - Family I. *Pseudonocardiaceae*^{VP}
 - Genus I. *Pseudonocardia*^{AL}
 - Genus II. ***Actinoalloteichus***^{VP}
 - Genus III. *Actinopolyspora*^{AL}
 - Genus IV. *Amycolatopsis*^{VP}
 - Genus V. *Kibdelosporangium*^{VP}
 - Genus VI. *Kutzneria*^{VP}
 - Genus VII. *Prauserella*^{VP}
 - Genus VIII. *Saccharomonospora*^{AL}
 - Genus IX. *Saccharopolyspora*^{AL}
 - Genus X. *Streptoalloteichus*^{VP}
 - Genus XI. *Thermobispora*^{VP}
 - Genus XII. *Thermocrispum*^{VP}
 - Family II. *Actinosynnemataceae*^{VP}
 - Genus I. *Actinosynnema*^{AL}
 - Genus II. *Actinokineospora*^{VP}
 - Genus III. *Lentzea*^{VP}
 - Genus IV. *Saccharothrix*^{VP}

- Suborder XI. *Streptomycineae*^{VP}
 Family I. *Streptomycetaceae*^{AL}
 Genus I. *Streptomyces*^{AL}
 Genus II. *Kitasatospora*^{VP}
 Genus III. *Streptovercillium*^{AL}
- Suborder XII. *Streptosporangineae*^{VP}
 Family I. *Streptosporangiaceae*^{VP}
 Genus I. *Streptosporangium*^{AL}
 Genus II. *Acrocarpospora*^{VP}
 Genus III. *Herbidospora*^{VP}
 Genus IV. *Microbispora*^{AL}
 Genus V. *Microtetraspora*^{AL}
 Genus VI. *Nonomuraea*^{VP}
 Genus VII. *Planobispora*^{AL}
 Genus VIII. *Planomonospora*^{AL}
 Genus IX. *Planopolyspora*^{VP}
 Genus X. *Planotetraspora*^{VP}
- Family II. *Nocardiopsaceae*^{VP}
 Genus I. *Nocardiopsis*^{AL}
 Genus II. *Thermobifida*^{VP}
- Family III. *Thermomonosporaceae*^{VP}
 Genus I. *Thermomonospora*^{AL}
 Genus II. *Actinomadura*^{AL}
 Genus III. *Spirillospora*^{AL}
- Suborder XIII. *Frankineae*^{VP}
 Family I. *Frankiaceae*^{AL}
 Genus I. *Frankia*^{AL}
- Family II. *Geodermatophilaceae*^{VP}
 Genus I. *Geodermatophilus*^{AL}
 Genus II. *Blastococcus*^{AL}
 Genus III. *Modestobacter*^{VP}
- Family III. *Microsphaeraceae*^{VP}
 Genus I. *Microsphaera*^{VP}
- Family IV. *Sporichthyaceae*^{VP}
 Genus I. *Sporichthya*^{AL}
- Family V. *Acidothermaceae*^{VP}
 Genus I. *Acidothermus*^{VP}
- Family VI. *"Kineosporiaceae"*
 Genus I. *Kineosporia*^{AL}
 Genus II. *Cryptosporangium*^{VP}
 Genus III. *Kineococcus*^{VP}
- Suborder XIV. *Glycomycineae*^{VP}
 Family I. *Glycomycetaceae*^{VP}
 Genus I. *Glycomyces*^{VP}
- Order II. *Bifidobacteriales*^{VP}
 Family I. *Bifidobacteriaceae*^{VP}
 Genus I. *Bifidobacterium*^{AL}
 Genus II. *Falcivibrio*^{VP}
 Genus III. *Gardnerella*^{VP}
- Family II. *Unknown Affiliation*^{VP}
 Genus I. *Actinobispora*^{VP}
 Genus II. *Actinocorallia*^{VP}
 Genus III. *Excellospora*^{AL}
 Genus IV. *Pelczaria*^{VP}
 Genus V. *Turicella*^{VP}

Taxonomic Outline of the Procaryotes

- Phylum BXV. *Planctomycetes* phy. nov.
Class I. "*Planctomycetacia*"
Order I. *Planctomycetales*^{VP}
Family I. *Planctomycetaceae*^{VP}
Genus I. *Planctomyces*^{AL}
Genus II. *Gemmata*^{VP}
Genus III. *Isosphaera*^{VP}
Genus IV. *Pirellula*^{VP}
- Phylum BXVI. *Chlamydiae* phy. nov.
Class I. "*Chlamydiae*"
Order I. *Chlamydiales*^{AL}
Family I. *Chlamydiaceae*^{AL}
Genus I. *Chlamydia*^{AL}
Genus II. *Chlamydomphila*^{VP}
Family II. *Parachlamydiaceae*^{VP}
Genus I. *Parachlamydia*^{VP}
Family III. *Simkaniaceae*^{VP}
Genus I. *Simkania*^{VP}
Family IV. *Waddliaceae*^{VP}
Genus I. *Waddlia*^{VP}
- Phylum BXVII. *Spirochaetes* phy. nov.
Class I. "*Spirochaetes*"
Order I. *Spirochaetales*^{AL}
Family I. *Spirochaetaceae*^{AL}
Genus I. *Spirochaeta*^{AL}
Genus II. *Borrelia*^{AL}
Genus III. *Brevinema*^{VP}
Genus IV. *Clevelandina*^{VP}
Genus V. *Cristispira*^{AL}
Genus VI. *Diplocalyx*^{VP}
Genus VII. *Hollandina*^{VP}
Genus VIII. *Pillotina*^{VP}
Genus IX. *Treponema*^{AL}
Family II. "*Serpulinaceae*"
Genus I. *Serpulina*^{VP}
Genus II. *Brachyspira*^{VP}
Family III. *Leptospiraceae*^{AL}
Genus I. *Leptonema*^{VP}
Genus II. *Leptospira*^{AL}
- Phylum BXVIII. *Fibrobacteres* phy. nov.
Class I. "*Fibrobacteres*"
Order I. "*Fibrobacterales*"
Family I. "*Fibrobacteraceae*"
Genus I. *Fibrobacter*^{VP}
- Phylum BXIX. *Acidobacteria* phy. nov.
Class I. "*Acidobacteria*"
Order I. "*Acidobacteriales*"
Family I. "*Acidobacteriaceae*"
Genus I. *Acidobacterium*^{VP}
Genus II. *Geothrix*^{VP}
Genus III. *Holophaga*^{VP}
- Phylum BXX. *Bacteroidetes* phy. nov.
Class I. "*Bacteroidetes*"
Order I. "*Bacteroidales*"
Family I. *Bacteroidaceae*^{AL}

- Genus I. Bacteroides*^{AL}
Genus II. Acetofilamentum^{VP}
Genus III. Acetomicrobium^{VP}
Genus IV. Acetothermus^{VP}
Genus V. Anaerorhabdus^{VP}
Genus VI. Megamonas^{VP}
 Family II. "Rikenellaceae"
Genus I. Rikenella^{VP}
Genus II. Marinilabilia^{VP}
 Family III. "Porphyromonadaceae"
Genus I. Porphyromonas^{VP}
*Genus II. **Dysgonomonas***^{VP}
 Family IV. "Prevotellaceae"
Genus I. Prevotella^{VP}
 Class II. "Flavobacteria"
 Order I. "Flavobacteriales"
 Family I. Flavobacteriaceae^{VP}
Genus I. Flavobacterium^{AL}
Genus II. Bergeyella^{VP}
Genus III. Capnocytophaga^{VP}
Genus IV. Cellulophaga^{VP}
Genus V. Chryseobacterium^{VP}
Genus VI. Coenonia^{VP}
Genus VII. Empedobacter^{VP}
Genus VIII. Gelidibacter^{VP}
Genus IX. Ornithobacterium^{VP}
Genus X. Polaribacter^{VP}
Genus XI. Psychroflexus^{VP}
Genus XII. Psychroserpens^{VP}
Genus XIII. Riemerella^{VP}
*Genus XIV. **Saligentibacter***^{VP}
Genus XV. Weeksella^{VP}
 Family II. "Myroidaceae"
Genus I. Myroides^{VP}
Genus II. Psychromonas^{VP}
 Family III. "Blattabacteriaceae"
Genus I. Blattabacterium^{AL}
 Class III. "Sphingobacteria"
 Order I. "Sphingobacteriales"
 Family I. Sphingobacteriaceae^{VP}
Genus I. Sphingobacterium^{VP}
Genus II. Pedobacter^{VP}
 Family II. "Saprospiraceae"
Genus I. Saprospira^{AL}
Genus II. Haliscomenobacter^{AL}
Genus III. Lewinella^{VP}
 Family III. "Flexibacteraceae"
Genus I. Flexibacter^{AL}
Genus II. Cyclobacterium^{VP}
Genus III. Cytophaga^{AL}
*Genus IV. **Dyadobacter***^{VP}
Genus V. Flectobacillus^{AL}
Genus VI. Hymenobacter^{VP}
Genus VII. Meniscus^{AL}
Genus VIII. Microscilla^{AL}

Taxonomic Outline of the Procaryotes

- Genus IX. *Runella*^{AL}
- Genus X. *Spirosoma*^{AL}
- Genus XI. *Sporocytophaga*^{AL}
- Family IV. "Flammeovirgaceae"
- Genus I. *Flammeovirga*^{VP}
- Genus II. *Flexithrix*^{AL}
- Genus III. *Persicobacter*^{VP}
- Genus IV. *Thermonema*^{VP}
- Family V. *Crenotrichaceae*^{AL}
- Genus I. *Crenothrix*^{AL}
- Genus II. *Chitinophaga*^{VP}
- Genus III. *Rhodothermus*^{VP}
- Genus IV. *Toxothrix*^{AL}
- Phylum BXXI. *Fusobacteria* phy. nov.
- Class I. "Fusobacteria"
- Order I. "Fusobacteriales"
- Family I. "Fusobacteriaceae"
- Genus I. *Fusobacterium*^{AL}
- Genus II. *Ilyobacter*^{VP}
- Genus III. *Leptotrichia*^{AL}
- Genus IV. *Propionigenium*^{VP}
- Genus V. *Sebaldella*^{VP}
- Genus VI. *Streptobacillus*^{AL}
- Family II. *Incertae sedis*^{VP}
- Genus I. *Cetobacterium*^{VP}
- Phylum BXXII. *Verrucomicrobia* phy. nov.
- Class I. *Verrucomicrobiae*^{VP}
- Order I. *Verrucomicrobiales*^{VP}
- Family I. *Verrucomicrobiaceae*^{VP}
- Genus I. *Verrucomicrobium*^{VP}
- Genus II. *Prostheco bacter*^{VP}
- Family II. "*Xiphinematobacteriaceae*"
- Genus I. *Xiphinematobacter*^{VP}
- Phylum BXXIII. *Dictyoglossus* phy. nov.
- Class I. "Dictyoglossi"
- Order I. "Dictyoglossales"
- Family I. "Dictyoglossaceae"
- Genus I. *Dictyoglossus*^{VP}

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