

Bergeys Manual Of Systematic Bacteriology Volume 5 The Actinobacteria Bergeys Manual Of Systematic Bacteriology Springer Verlag

Covers the nature of bacterial identification schemes, the differentiation of procaryotic from eucaryotic microorganisms, and major categories and groups of bacteria.

Includes a revised taxonomic outline for the phyla Bacteroidetes, Planctomycetes, Chlamydiae, Spirochetes, Fibrobacteres, Fusobacteria, Acidobacteria, Verrucomicrobia, Dictyoglomi, and Gemmatimonadetes based upon the SILVA project as well as a description of more than 153 genera in 29 families. Includes many medically important taxa.

One of the most authoritative works in bacterial taxonomy, this resource has been extensively revised. This five volume second edition has been reorganized along phylogenetic lines to reflect the current state of prokaryotic taxonomy. In addition to the detailed treatments provided for all of the validly named and well-known species of prokaryotes, this edition includes new ecological information and more extensive introductory chapters.

Includes a description of the Alpha-, Beta-, Delta-, and Epsilonproteobacteria (1256 pages, 512 figures,

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Bergeys Manual Of Systematic Bacteriology Springer Verlag and 371 tables). This large taxa include many well known medically and environmentally important

groups. Especially notable are *Acetobacter*, *Agrobacterium*, *Aquospirillum*, *Brucella*, *Burkholderia*, *Caulobacter*, *Desulfovibrio*, *Gluconobacter*, *Hyphomicrobium*, *Leptothrix*, *Myxococcus*, *Neisseria*, *Paracoccus*, *Propionibacter*, *Rhizobium*, *Rickettsia*, *Sphingomonas*, *Thiobacillus*, *Xanthobacter* and 268 additional genera.

Bacteriologists from all levels of expertise and within all specialties rely on this Manual as one of the most comprehensive and authoritative works. Since publication of the first edition of the Systematics, the field has undergone revolutionary changes, leading to a phylogenetic classification of prokaryotes based on sequencing of the small ribosomal subunit. The list of validly named species has more than doubled since publication of the first edition, and descriptions of over 2000 new and realigned species are included in this new edition along with more in-depth ecological information about individual taxa and extensive introductory essays by leading authorities in the field.

Includes a revised taxonomic outline for the Actinobacteria or the high G+C Gram positives is based upon the SILVA project as well as a description of greater than 200 genera in 49 families. Includes many medically and industrially important taxa.

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Includes introductory chapters on classification of prokaryotes, the concept of bacterial species, numerical and polyphasic taxonomy, bacterial nomenclature and the etymology of prokaryotic names, nucleic acid probes and their application in environmental microbiology, culture collections, and the intellectual property of prokaryotes. The first Road Map to the prokaryotes is included as well as an overview of the phylogenetic backbone and taxonomic framework for prokaryotic systematics.

Volume 2 "The Proteobacteria." (2004) Don J. Brenner, Noel R. Krieg, James T. Staley (Volume Editors), and George M. Garrity (Editor-in-Chief) with contributions from 339 colleagues. The volume provides descriptions of more than 2000 species in 538 genera that are assigned to the phylum Proteobacteria. This volume is subdivided into three parts. Part A, The Introductory Essays (332 pgs, 76 figures, 37 tables); Part B, The Gammaproteobacteria (1203 pages, 222 figures, and 300 tables); and Part C The Alpha-, Beta-, Delta-, and Epsilonproteobacteria (1256 pages, 512 figures, and 371 tables). The volume on the Proteobacteria culminates a four year effort by Bergey's Manual Trust and more than 150 internationally recognized authorities to provide a comprehensive view of the Proteobacteria, the largest prokaryotic phylum. At present, there are roughly 6250 named species of Bacteria, and the Proteobacteria represent the single largest phylum. It encompasses 72 families and includes descriptions of 425 genera and over 1875 named species. The Proteobacteria also represent the most metabolically and ecologically diverse group of bacteria and contains many of the clinically relevant species that are of significance in human, animal and plant health. As a result, this volume caters to the broadest audience, and the set is an

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essential reference for the microbiologist. The volume is subdivided into three sub-volumes: Introductory chapters (Part A), The Gammaproteobacteria (Part B), and the Alpha-, Beta-, Delta-, and Epsilonproteobacteria. (Part C). Most importantly, medically important species appear in both the B and C sub-volumes.

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