

Bergeys Manual Of Systematic Bacteriology Volume 5

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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 description of the gammaproteobacteria 1203 pages 222 figures and 300 tables this large taxon includes many well known medically and environmentally important groups especially notable are the enterobacteriaceae aeromonas beggiatoa chromatium legionella nitrococcus oceanospirillum pseudomonas rickettsiella vibrio xanthomonas and 155 additional genera

includes a description of the alpha beta delta and epsilonproteobacteria 1256 pages 512 figures 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

includes a revised taxonomic outline for the firmicutes based upon the silva project as well as a description of more than 1346 species and 235 genera belonging to the phylum firmicutes which are also called the low mol g c gram positive prokaryotes major taxa to be included are alicyclobacillus bacillus clostridium enterococcus erysipelothrix eubacterium haloanaerobium heliobacterium lachnospira lactobacillus leuconostoc listeria paenibacillus peptococcus ruminococcus staphylococcus streptococcus syntrophomonas thermoactinomyces thermoanaerobacter veillonella and 229 additional genera includes many medically and industrially important taxa

the manual is designed to assist in the identification of bacteria and to indicate the relationships that exist between the various kinds of bacteria the manual is presented as various sections based on a few readily determined criteria each section bears a vernacular name all accepted genera have been placed in what seems the most appropriate section each article dealing with a bacterial genus is presented wherever possible in a definite sequence in each article dealing with a genus there are generally three kinds of tables

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 garrrity 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 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

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

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