

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

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 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

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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

this manual is one of the most comprehensive and authoritative works in the field of prokaryotic systematics it is undergoing an extensive revision that will ultimately culminate in a five volume second edition arrangement of the content of the second edition follows the now familiar and well regarded phylogeny of the 16s rrna gene yet retains much of the layout of the first edition volume 1 encompassing the archaea deeply branching and phototrophic bacteria was published in 2001 work on volume 2 the proteobacteria has been completed this 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

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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

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