

9th Edition Bergeys Manual Of Determinative Bacteriology

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

covers the nature of bacterial identification schemes the differentiation of prokaryotic from eukaryotic microorganisms and major categories and groups of bacteria

includes a description of the alpha beta delta and epsilonproteabacteria 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

phototrophic bacteria the gilding bacteria the sheathed bacteria budding and or appendaged bacteria the spirochetes spiral and curved bacteria gram negative aerobic rods and cocci gram negative facultatively anaerobic rods gram negative anaerobic bacteria gram negative cocci and coccobacilli gram negative anaerobic cocci gram negative chemolithotrophic bacteria methane producing bacteria gram positive cocci endospore forming rods and cocci gram positive asporoge nous rod shaped bacteria actinomycetes and related organisms the rickettsias the mycoplasmas

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 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

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