Bergey Manual Of Systematic Bacteriology Volume 9

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Bacteriology: Part A. Introductory essays Bergey's Manual of Systematic Bacteriology *David R. Boone George M. Garrity David R. Boone David Hendricks Bergey Don J. Brenner John G. Holt George Garrity Aidan Parte David Hendricks Bergey Noel R. Krieg David R. Boone Brian J.B. Wood Robert Earle Buchanan M. Goodfellow William B. Whitman*

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 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

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 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

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

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 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

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

bergey s manual of systematic bacteriology noel r krieg editor volume 1 john g holt editor in chief

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

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the lactic acid bacteria is planned as a series in a number of volumes and the interest shown in it appears to justify a cautious optimism that a series comprising at least five volumes will appear in the fullness of time this being so i feel that it is desirable to introduce the series by providing a little of the history of the events which culminated in the decision to produce such a series i also wish to indicate the boundaries of the group the lactic acid bacteria as i have defined them for the present purposes and to outline my hopes for future topics in the series historical background lowe my interest in the lactic acid bacteria lab to the late dr cyril rainbow who introduced me to their fascinating world when he offered me a place with him to work for a phd on the carbohydrate metabolism of some lactic rods isolated from english beer breweries by himself and others notably dr dora kulka he was particularly interested in their preference for maltose over glucose as a source of carbohydrate for growth expressed in most cases as a more rapid growth

on the disaccharide but one isolate would grow only on maltose eventually we showed that maltose was being utilised by direct fermentation as the older texts called it specifically by the phosphorolysis which had first been demonstrated for maltose by doudoroff and his associates in their work on maltose metabolism by a strain of neisseria meningitidis

this book provides microbiologists with a comprehensive treatment of concepts ideas and methods that make up the subject of modern bacterial systematics it includes not only traditional numerical and chemotaxonomic methods but also full coverage of molecular systematics the book is divided into three sections classification nomenclature and identification the authors are world leaders in the field and many are involved in the bergey s manual which is the bible of the field key features provides microbiologists with a comprehensive treatment of the concepts ideas and methods that make up the subject of modern bacterial systematics includes not only traditional numerical and chemotaxonomic methods but also full coverage of molecular systamatics three sections included are classification nomenclature and identification the authors are world leaders in this subject many are involved in the bergey s manual which is the bible of the field

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