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for courses in general microbiology a streamlined approach to master microbiology brock biology of microorganisms is the leading majors microbiology text on the market it sets the standard for impeccable scholarship accuracy and strong coverage of ecology evolution and metabolism the 15th edition seamlessly integrates the most current science paying particular attention to molecular biology and the genomic revolution it introduces a flexible more streamlined organization with a consistent level of detail and comprehensive art program brock biology of microorganisms helps students quickly master concepts both in and outside the classroom through personalized learning engaging activities to improve problem solving skills and superior art and animations with mastering microbiology also available with mastering microbiology mastering microbiology is an online homework tutorial and assessment product designed to improve results by helping students quickly master concepts students benefit from self paced tutorials that feature personalized wrong answer feedback and hints that emulate the office hour experience and help keep students on track with a wide range of interactive engaging and assignable activities students are encouraged to actively learn and retain tough course concepts students if interested in purchasing this title with mastering microbiology ask your instructor for the correct package isbn and course id instructors contact your pearson representative for more information note you are purchasing a standalone product mastering microbiology does not come packaged with this content students if interested in purchasing this title with mastering microbiology ask your instructor for the correct package isbn and course id instructors contact your pearson representative for more information if you would like to purchase both the physical text and mastering microbiology search for 0134268660 9780134268668 brock biology of microorganisms plus mastering microbiology with etext access card package 15 e package consists of 0134261925 9780134261928 brock biology of microorganisms 0134603974 9780134603971 mastering microbiology with pearson etext standalone access card for brock biology of microorganisms 15 e masteringmicrobiology should only be purchased when required by an instructor

die 10 auflage dieses etablierten standardwerks für wasserfachleute bietet dem leser einen breiten Überblick zu chemischen hydrogeologischen und mikro biologischen themen rund um das wasser außerdem enthalten sind aktuelle informationen zu modernen chemischen und biologischen verfahren der wasseranalytik praktische aspekte der aufbereitung desinfektion und verwendung von wasser sowie zur abwasserreinigung und zum schutz von gewässern

this book provides a broad overview how extremophiles can be used in biotechnology including for the production and degradation of compounds it reviews various recent discoveries and applications related to a large variety of extremophiles considering both prokaryotes as well as eukaryotes

the oxford companion to cheese answers a clear call for the kind of subject defining reference work that the oxford companion to wine achieved it is the first truly comprehensive cheese book containing 855 a z scholarly yet accessible entries on the history culture and science of cheese making and cheese enjoyment worldwide an astonishing 325 authors contributed entries residing in 35 countries they included cheesemakers cheesemongers dairy scientists anthropologists food historians journalists archaeologists and on from backgrounds as diverse as the topics they write about this landmark encyclopedia is the most wide ranging comprehensive and reliable reference work on cheese available

efficient techniques for identifying gram positive clinical bacteria is a comprehensive guide to the latest methods and techniques used in clinical microbiology for the identification of gram positive bacteria this book serves as a valuable resource for researchers clinicians and students in the field of microbiology the book begins by introducing the concept of gram positive bacteria and their significance in clinical settings it then delves into the different laboratory techniques used for the identification of gram positive bacteria including traditional culture methods biochemical tests and molecular techniques the book also covers the identification of specific groups of gram positive bacteria such as staphylococci streptococci and enterococci and provides an overview of the clinical significance of these bacteria and their associated diseases in addition the book discusses the challenges associated with identifying gram positive bacteria in clinical samples including the potential for contamination and the need for rapid identification in critically ill patients the authors offer practical solutions to these challenges and provide guidelines for implementing these

techniques in a clinical setting overall efficient techniques for identifying gram positive clinical bacteria is an essential reference for anyone working in the field of microbiology it provides a comprehensive overview of the latest methods and techniques for identifying gram positive bacteria and offers practical guidance for optimizing accuracy and efficiency in the laboratory happy reading and learning

this book overviews the cutting edge applications of biotechnological tools and techniques in valorizing industrial waste to achieve the united nations sustainable development goals it provides comprehensive insights into the latest research technologies processes and case studies making it an invaluable resource for researchers professionals policymakers and students interested in waste management bioenergy recovery and sustainable development by transforming industrial waste into high value products this book fosters a circular economy and lessens environmental strain bridging the gap between academia and industry with practical solutions and innovative strategies it seeks to fill the gap between academics and industry by outlining workable solutions and discussing cutting edge tactics that can be used in realistic situations while providing an in depth exploration of advanced biotechnological techniques being widely used to valorize industrial waste the book covers a wide range of issues that help academics and professionals efficiently deal with various waste streams such as microbial bioremediation renewable energy resource recovery enzymatic degradation metabolic engineering bioprocess development and others the book intends to motivate and guide students researchers practitioners and policymakers in pursuing sustainable waste management strategies by exhibiting the revolutionary power of microbial technology the concise and impartial content structure will also benefit corporate researchers it is an essential resource for anyone interested in the intersection of biotechnology and environmental sustainability offering insights that are both academically rigorous and practically applicable

caves are dark underground hollow spaces with relatively constant temperature high humidity and limited nutrients many caves are associated with karst topography which is formed by the dissolution of soluble bedrock such as limestone dolomite and gypsum in areas where groundwaters are undersaturated with respect to the minerals in the host rock karst landforms spread widely accounting for approximately 20 of the earth s dry ice free surface ford and williams 2007 as a typical feature of subsurface landscape karst caves develop globally with over 50 000 distributed in the united states barton and jurado 2007 china also has a

large contiguous karst terrain and the yunnan guizhou plateau in the southwest developed most karst caves among which the longest cave exceeds 138 km zhang and zhu 2012 many caves are relatively shallow and form near the water table in karst terranes although some caves develop by deep seated hypogenic process at substantial depths and by process other than dissolution such as lava flows caves are oligotrophic ecosystems with less than 2 mg of total organic carbon per liter yet host flourishing microbial groups figure 1a with an average number of 106 microbial cells per gram of cave rock barton and jurado 2007 the study revealed a high diversity within bacteria domain and proteobacteria and actinobacteria were abundant in oligotrophic cave samples of air rock sediment and water chloroflexi planctomycetes bacteroidetes firmicutes acidobacteria nitrospirae gemmatimonadetes and verrucomicrobia also accounted for large proportions of the total microbial community in caves wu et al 2015 zhu et al 2019 in some organic cave samples such as biofilms in sulfur cave bat guanos spiders webs and earthworm castings mycobacterium was prevalently detected modra et al 2017 sarbu et al 2018 hubelova et al 2021 pavlik et al 2021 over 500 genera of fungi such as penicillium aspergillus and mortierella have been reported in caves vanderwolf et al 2013 and new fungal species were identified from cave air rock sediment and water samples zhang et al 2017 2021 these microbial communities contain novel diversity and promote important biogeochemical processes with no sunlight microorganisms in cave environment cannot perform photosynthesis and are intensively involved in the biogeochemical cycles of carbon nitrogen sulfur and metals such as fe and mn to offset the lack of exogenous nutrients and energy

this authored book collates information on extremophilic microorganisms from around the world with special emphasis on india the main focus of this book is to describe extreme environments as the habitats of these microorganisms mechanisms of the extremophiles to cope up with the surrounding environment new taxa created their physiological properties their biotechnological potential in the production of different biomolecules and biomaterials and their role in sustainability the concept of the book is to have comprehensive information on the diversity of microorganisms in one place the purpose of the present book is to make aware young researchers of the attempts made so far to isolate these different microbes inspire them to revisit the extreme environments investigate their biodiversity using advanced molecular techniques and explore further their biotechnological potential this book is of interest to post graduate students young researchers of india as well as other countries it is

useful reading material for researchers involved in environmental microbiology microbial diversity microbial systematics microbial culture collections molecular taxonomy and microbial biotechnology

the landmark text that belongs in the hands of every cardiologist fully updated and reorganized to make it more patient centric than ever a doody s core title for 2023 world famous for its authority and clinical relevance fuster and hurst s the heart is cardiology s longest continuously published reference book written to meet the ever changing needs of cardiologists fellows and interns this trusted classic offers a solid foundation in cardiovascular medicine and complete coverage of all major cardiovascular topics this fifteenth edition presents a greater focus on the practicalities of patient care additionally the content is ordered in a more methodical pattern from mechanism to management reflecting the latest technical therapeutic and clinical advances fuster and hurst s the heart provides invaluable concise summaries of major new trials and guidelines authoritative coverage and unmatched utility central illustrations new section on cardiovascular critical care new chapter cardiovascular disease and covid 19 chapter summaries acc aha esc guidelines in all chapters 1 200 photos and illustrations sections include risk factors for cardiovascular disease atherosclerosis and coronary heart disease diseases of the great vessels and peripheral vessels valvular heart disease rhythm and conduction abnormalities heart failure diseases of the pericardium cardiopulmonary disease critical cardiovascular care adult congenital heart disease special populations and topics in cardiovascular disease

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sustainability basics of microbiology biochemistry metabolism genetics and information flow microbial ecology stoichiometry and energetics microbial kinetics and products biofilm kinetics reactor characteristics and kinetics methanogenesis aerobic suspended growth processes aerobic biofilm processes nitrogen transformation and recovery phosphorus removal and recovery biological treatment of drinking water

list of members in vol 2 58

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