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Theory, Microbes
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Yuan Kun Lee



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Biomining Douglas E. Rawlings,2013-03-09 Biomining is the use of microorganisms in the recovery of metals from ores During bioleaching metals such as copper nickel or zinc are oxidized through microbial action from the water insoluble sulfide to the soluble sulfate forms Although gold is inert to microbial action microbes can also be used in gold recovery from certain types of ores because as they oxidize the ore they open up its structure thereby allowing a gold solubilizing agent such as cyanide to penetrate the ore The book describes several industrial bioleaching and biooxidation processes as well as the underlying theory and biology of the microbes involved **Biomining** Douglas E Rawlings,2014-01-15

Forthcoming Books Rose Arny,1999-04 **The British National Bibliography** Arthur James Wells,1999 **Subject Guide to Books in Print** ,2001 *Biomining* Douglas E. Rawlings,D. Barrie Johnson,2006-10-05 Biomining uses microorganisms to recover metals in particular copper and gold from ores and concentrates This book takes a strong applied approach to the study of biomining It describes emerging and established industrial processes as well as the underlying theory of the process along with the biology of the microorganisms involved Chapters have been contributed by experts from leading biomining companies consultants and internationally recognized researchers and academics **Biomining** Douglas E. Rawlings,D. Barrie Johnson,2010-10-14 Biomining uses microorganisms to recover metals in particular copper and gold from ores and concentrates This book takes a strong applied approach to the study of biomining It describes emerging and established industrial processes as well as the underlying theory of the process along with the biology of the microorganisms involved Chapters have been contributed by experts from leading biomining companies consultants and internationally recognized researchers and academics **Applications of Microorganisms in Industrial Biotechnology** Patrícia Alexandra Batista Branco,2017-11 The field of microbiology and biotechnology are intertwined since time immemorial however the ties between the two areas became prominent in the last century The areas provided various products which enriched mankind in various ways mainly in the form of food and succeeded in producing medicines There was no technology which provoked the humans to understand the mechanisms involved whilst using microbes In previous millennia microbes were utilized by humans for several needs however there was no scope of understanding the machinery to the complete detail The nineteenth century bore an outstanding scientist named Louis Pasteur who pioneered in industrial microbiology His understanding of microbes laid a path to the other discoveries which made human life more comfortable and also increment in life span is clearly noticed The fight against infectious diseases has progressed with the advancements in microbiology The era of mass production of the microbial products initiated mainly with citric acid production The Second World War provided an essentiality to understand the process of preservation of products in aseptic conditions The economically viable products such as vaccines cytokines pharmaceuticals and foods were produced in a large scale due to advancements in genetic engineering in the seventies The applied microbiology and biotechnology are playing a crucial role

in dictating national economy medicine agriculture environmental protection and pharmaceuticals The main reason to devise this part of literature is to introduce and summarize the current state of knowledge which concerns microbial application in large scale production lines This book is built on my experiences with several research fronts during these two decades The field of industrial microbiology and biotechnology deals with exploitation of microbes in a systematic manner in order to obtain goods and services for human welfare The two immediate aspects of industrial microbiology are fermentation processes and service delivery especially in pollution control It is assumed that the reader may have got some learned experience in microbiology to understand this book The students of any life sciences and chemistry can understand the concept delivered in this book without any hassles The application of microbiology in industrial biotechnology is broadly emphasized in this book The chapters were designed to let the reader take a systematic study without getting struck at any concept and never feel confused I would like to express my gratitude to all the professors and researchers who provided me variety of inputs to make this literature work a success All the valuable time they invested in me to bring out this book is duly appreciated and some of the reflections which they expect are in due till the book is read by many of the enthusiastic students

Modern Industrial Microbiology and Biotechnology Nduka Okafor, Benedict C. Okeke, 2017-11-22 The field of industrial microbiology involves a thorough knowledge of the microbial physiology behind the processes in the large scale profit oriented production of microbe related goods which are the subject of the field In recent times a paradigm shift has occurred and a molecular understanding of the various processes by which plants animals and microorganisms are manipulated is now central to industrial microbiology Thus the various applications of industrial microbiology are covered broadly with emphasis on the physiological and genomic principles behind these applications Relevance of the new elements such as bioinformatics genomics proteomics site directed mutation and metabolic engineering which have necessitated the paradigm shift in industrial microbiology are discussed

Microbial Biotechnology: Principles And Applications (3rd Edition) Yuan Kun Lee, 2013-01-30 The rapidly expanding molecular biological techniques and approaches have significant impact on microbial biotechnology hence the need for the addition of four new chapters in the third edition of this textbook Chapter 3 Application of Omics Technologies in Microbial Fermentation Chapter 5 Microbial Genome Mining for Identifying Antimicrobial Targets Chapter 21 Bacterial Biofilm Molecular Characterization and Impacts on Water Management and Chapter 23 Microbial Biomining Chapter 15 Transgenic Plants has been completely revised while most of the other chapters have been thoroughly updated in this new edition There already exist a number of excellent general textbooks on microbiology and biotechnology that deal with the basic principles of microbial biotechnology To complement them this book focuses on the various applications of microbial biotechnological principles A teaching based format is adopted whereby working problems as well as answers to frequently asked questions supplement the main text The book also includes real life examples of how the application of microbial biotechnological principles has achieved breakthroughs in both research and industrial production

Although written for polytechnic students and undergraduates the book contains sufficient information to be used as a reference for postgraduate students and lecturers It may also serve as a resource book for corporate planners managers and applied research personnel

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