

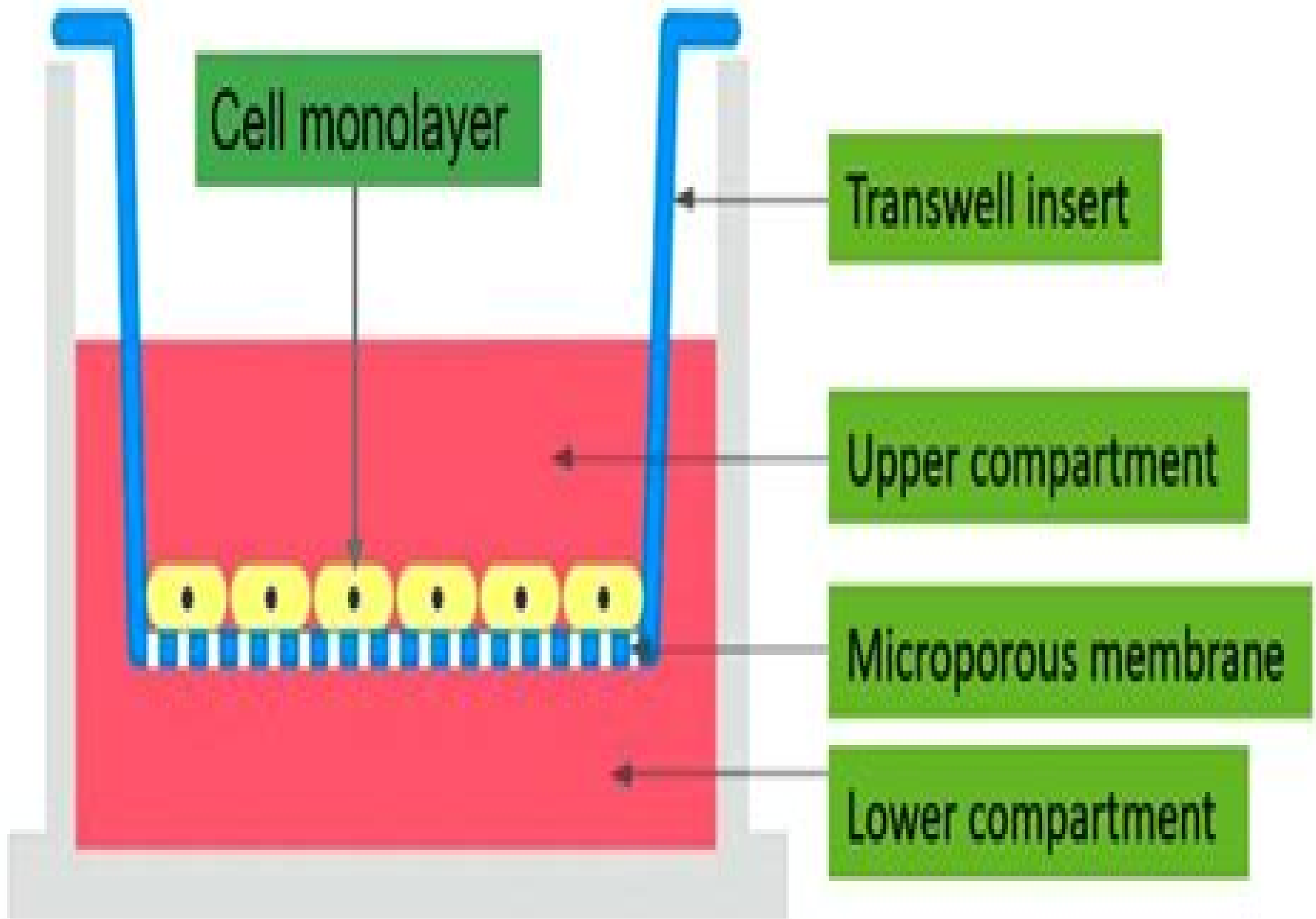
Cell monolayer

Transwell insert

Upper compartment

Microporous membrane

Lower compartment



Microbial Permeability

Ralf Weiskirchen



Microbial Permeability:

Theory and Practice in Microbial Enhanced Oil Recovery Kun Sang Lee, Tae-Hyuk Kwon, Taehyung Park, Moon Sik Jeong, 2020-07-18 Selection of the optimal recovery method is significantly influenced by economic issues in today's oil and gas markets. Consequently, the development of cost-effective technologies which bring maximum oil recovery is the main interest in today's petroleum research communities. Theory and Practice in Microbial Enhanced Oil Recovery provides the fundamentals, latest research, and creditable field applications. Microbial Enhanced Oil Recovery (MEOR) is potentially a low-priced and eco-friendly technique in which different microorganisms and their metabolic products are implemented to recover the remaining oil in the reservoir. Despite drastic advantages of MEOR technology, it is still not fully supported in the industry due to lack of knowledge on microbial activities and their complexity of the process. While some selected strategies have demonstrated the feasibility to be used on a mass scale through both lab and field trials, more research remains to implement MEOR into more oil industry practices. This reference delivers comprehensive descriptions on the fundamentals, including basic theories on geomicrobiology, experiments, and modeling, as well as current tested field applications. Theory and Practice in Microbial Enhanced Oil Recovery gives engineers and researchers the tool needed to stay up to date on this evolving and more sustainable technology. Covers fundamental screening criteria and theories, selective plugging, and mobility control mechanisms. Describes the basic effects on environmental parameters and the mechanics of simulation, including microbial growth kinetics. Applies up to date practical applications proven in both the lab and the field.

Microbial Enhanced Oil Recovery E.C. Donaldson, G.V. Chilingarian, T.F. Yen, 1989-02-01 The use of microorganisms and their metabolic products to stimulate oil production is currently receiving renewed interest worldwide. This technique involves the injection of selected microorganisms into the reservoir and the subsequent stimulation and transportation of their in situ growth products in order that their presence will aid in further reduction of residual oil left in the reservoir after secondary recovery is exhausted. Although unlikely to replace conventional microbial enhanced oil recovery, this unique process seems superior in many respects. Self-duplicating units, namely the bacteria cells, are injected into the reservoir and by their in situ multiplication they magnify beneficial effects. This new approach to enhancement of oil recovery was initiated in 1980 and the first results were published in the proceedings of two international conferences. This book evolved from these conferences and was designed to encompass all current aspects of microbial enhanced oil recovery: the development of specific cultures, increase of the population for field application, various methods for field applications, and the results and the environmental concerns associated with this newly developed technology. It provides a comprehensive treatise of the subject and is arranged to show the laboratory development of microbes suited to microbial enhanced oil recovery and the perpetuation of the special cultures in a petroleum reservoir. Thus, this book has specific usefulness in the laboratory, the oilfield, and the classroom. Although not written as a text book, it can be used as a reference volume for graduate studies in enhanced oil recovery.

Microbial Permeability John P. Reeves,1973

Microbial Enhanced Oil Recovery Lalit Pandey,Pankaj

Tiwari,2021-10-21 This book presents the fundamentals of the reservoir and interfacial engineering The book systematically starts with the basics of primary secondary and tertiary enhanced oil recovery and emphasizes on the theory of microbial enhanced oil recovery MEOR and its potential toward recovery of oil in place Different approaches of MEOR such as in situ ex situ and integration of chemical and microbial enhanced oil recovery EOR are discussed in detail This book highlights the link between the effectiveness of MEOR and the local reservoir conditions crude oil characteristics and indigenous microbial community The latest implementations of MEOR across the globe are highlighted as case studies to outline the potential as well as the scope of MEOR Given the topics covered this book will be useful for professionals and researchers working in the areas of petroleum science and engineering chemical engineering biotechnology bioengineering and other related fields

Microbes Prakash S. Bisen,Mousumi Debnath,G. B. Prasad,2012-06-22 An accessible introduction to the world of microbes from basic microbe biology through industrial applications Microbes affect our lives in a variety of ways playing an important role in our health food agriculture and environment While some microbes are beneficial others are pathogenic or opportunistic Microbes Concepts and Applications describes basic microbe biology and identification and shows not only how they operate in the subfields of medicine biotechnology environmental science bioengineering agriculture and food science but how they can be harnessed as a resource It provides readers with a solid grasp of etiologic agents pathogenic processes epidemiology and the role of microbes as therapeutic agents Placing a major emphasis on omics technology the book covers recent developments in the arena of microbes and discusses their role in industry and agriculture as well as in related fields such as immunology cell biology and molecular biology It offers complete discussions of the major bacterial viral fungal and parasitic pathogens includes information on emerging infectious diseases antibiotic resistance and bioterrorism and talks about the future challenges in microbiology The most complete treatment of microbial biology available Microbes features eye opening chapters on Human and Microbial World Gene Technology Application and Techniques Molecular Diagnostic and Medical Microbiology Identification and Classification of Microbes Diversity of Microorganisms Microbes in Agriculture Microbes as a Tool for Industry and Research Complete with charts and figures this book is an invaluable textbook for university teachers students researchers and people everywhere who care about microorganisms

Proceedings of 1982 International Conference on Microbial Enhancement of Oil Recovery Erle C. Donaldson,J. Bennett Clark,1983

Microbial Enhancement of Oil Recovery - Recent Advances E.T. Premuzic,A. Woodhead,1993-07-23 This volume is concerned with many aspects of petroleum microbiology and biochemistry all with strong commercial applications Worldwide research on the major topic MEOR Microbially Enhanced Oil Recovery is comprehensively covered under experimental work field applications and modeling The challenge of formulating a complete in situ MEOR system microorganisms nutrient package and other amendments is explored together with the future needs in the design and execution of this new

biotechnology *Microbial Enhancement of Oil Recovery - Recent Advances* E.C. Donaldson,1991-04-03 This conference was instituted to examine field activities in Microbial Enhancement of Oil Recovery The U S Department of Energy has sponsored several field projects and the details from some of these were presented as well as a few from industry The balance of the program was concerned with new developments in research Today s oil production technology leaves one third to one half of the original oil in place in the reservoir at abandonment of secondary recovery waterflooding This leaves a very large target for microbial enhanced oil recovery which was shown by the research papers of this conference to be capable of producing up to 50% of the residual oil The field trials show that the normal projected oil production decline curve can be reversed or leveled off by microbial enhancement of oil recovery This conference has shown that a variety of applications are possible to correct oilfield problems as well as to enhance oil recovery Among these is the suppression of hydrogen sulfide production which alone is a tremendous advance because of the large quantity of sour oil production If hydrogen sulfide production can be curtailed it would increase the value of the produced oil decrease its toxicity and largely decrease its corrosiveness All of these would be welcome both in the field and at the petroleum refinery where special precautions must be taken to process sour crude oil Another very important discovery is the ability of certain bacteria to eliminate paraffin deposition around the producing well and in the tubulars This is a welcome improvement for many producers who have considerable difficulty in controlling paraffin deposition **Evaluation of Flame Emission** William Rudolf Seitz,1973

Subsurface Biological Activity in Relation to Ground Water Pollution William J. Dunlap,James F. McNabb,1973
Biological activity occurring in subsurface regions below the soil zone may be of considerable importance in determining the fate and effect of pollutants in ground water but this possibility has received little previous attention This paper comprises a discussion of subsurface biological activity in regard to ground water pollution as reflected by available literature references The subsurface environment is discussed in terms of factors likely to be of greatest significance in regard to the development of biological systems and previous investigations of subsurface microbial activity are reviewed Available information indicates the presence in the upper continental crust of the earth of numerous regions particularly those of sedimentary origin which are probably suitable habitats for many microbial species Previous investigations of subsurface microbial activity clearly show the presence of diverse microbial populations in many subsurface regions below the soil zone Hence microbial activity appears both possible and probable in most subsurface regions of importance in regard to ground water Further elucidation of the extent and nature of microbial activity in subsurface regions is needed in developing methods for predicting the impact on ground water quality of pollutants released into the earth s crust **Research Reporting Series**,1973 *Geomechanics and Geodynamics of Rock Masses* Vladimir Litvinenko,2018-05-15 Geomechanics and Geodynamics of Rock Masses contains contributions presented at EUROCK 2018 the 2018 International Symposium of the International Society for Rock Mechanics ISRM 2018 Saint Petersburg Russia 22-26 May 2018 Dedicated to recent advances and

achievements in the fields of geomechanics and geotechnology the main topics of the book include Physical and mechanical properties of fractured rock laboratory testing and rock properties field measurements and site investigations Geophysics in rock mechanics Rock mass strength and failure Nonlinear problems in rock mechanics Effect of joint water on the behavior of rock foundation Numerical modeling and back analysis Mineral resources development methods and rock mechanics problems Rock mechanics and underground construction in mining hydropower industry and civil engineering Rock mechanics in petroleum engineering Geodynamics and monitoring of rock mass behavior Risks and hazards Geomechanics of technogenic deposits Geomechanics and Geodynamics of Rock Masses will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering EUROCK 2018 organized by the Saint Petersburg Mining University is a continuation of the successful series of ISRM symposia in Europe which began in 1992 in Chester UK

Mathematical and Numerical Modeling in Porous Media Martin A. Diaz Viera,Pratap Sahay,Manuel Coronado,Arturo Ortiz Tapia,2012-07-24 Porous media are broadly found in nature and their study is of high relevance in our present lives In geosciences porous media research is fundamental in applications to aquifers mineral mines contaminant transport soil remediation waste storage oil recovery and geothermal energy deposits Despite their importance there is as yet no complete

Recovery Improvement Qiwei Wang,2022-09-06 Oil and Gas Chemistry Management Series brings an all inclusive suite of tools to cover all the sectors of oil and gas chemicals from drilling completion to production processing storage and transportation The third reference in the series Recovery Improvement delivers the critical chemical basics while also covering the latest research developments and practical solutions Organized by the type of enhanced recovery approaches this volume facilitates engineers to fully understand underlying theories potential challenges practical problems and keys for successful deployment In addition to the chemical gas and thermal methods this reference volume also includes low salinity smart water microorganism and nanofluid based recovery enhancement and chemical solutions for conformance control and water shutoff in near wellbore and deep in the reservoir Supported by a list of contributing experts from both academia and industry this book provides a necessary reference to bridge petroleum chemistry operations from theory into more cost efficient and sustainable practical applications Covers background information and practical guidelines for various recovery enhancement domains including chapters on enhanced oil recovery in unconventional reservoirs and carbon sequestration in CO2 gas flooding for more environment friendly and more sustainable initiatives Provides effective solutions to control chemistry related issues and mitigation strategies for potential challenges from an industry list of experts and contributors Delivers both up to date research developments and practical applications featuring various case studies **Effects of**

Alcohol Use on Immunity and Immune Responses Suhas Sureshchandra,Samantha Yeligar,Derrick R. Samuelson,Ilhem Messaoudi,2023-11-29 Alcohol use disorder AUD is a significant global health burden Globally alcohol misuse is the fifth leading risk factor for premature death and disability and accounts for 3 3 million deaths annually Chronic alcohol use

deleteriously affects both normal behavior e.g. depression, anxiety and alcohol craving and physiology e.g. oxidative stress, intestinal hyperpermeability, immune dysfunction and organ damage. Both heavy and binge drinking patterns alter immune frequencies, compromise immune cell function, resulting in increased morbidity and mortality. Alcohol misuse can damage barrier functions in vital organs such as the lungs, gut, increase susceptibility to both bacterial and viral infections but delay wound healing. Chronic alcoholics are also at a greater risk of developing Acute respiratory distress syndrome (ARDS), alcoholic liver disease (ALD) and certain cancers. A lot of progress has been made in elucidating the relationship between alcohol consumption and immune function and how it affects human health. However, the mechanisms by which alcohol and its metabolites interact with peripheral and tissue resident immune systems remain poorly defined. Defining specific systemic adaptations and molecular mechanisms is important for understanding the long term consequences of chronic alcohol use. These studies will help devise new interventions or refine existing ones to target the immune system in mitigating alcohol related diseases. The aim of this Research Topic is to bring together new research in the alcohol field exploring the broad molecular and cellular adaptations of binge and heavy drinking on peripheral and tissue immunity. Studies would ideally include a combination of in vitro cell line models and in vivo animal models and/or human studies of alcohol induced end organ damage mediated by dysregulated immune responses. Papers in this Research Topic could be used to identify complementary mechanisms and pathways that may be the focus of future therapeutic strategies. We encourage the submission of Original Research articles as well as Reviews, Mini Reviews and Perspectives covering the following or related topics:

1. Innate and adaptive immune adaptations with moderate and heavy drinking
2. Transcriptional and epigenetic mechanisms of alcohol associated immune dysfunction
3. Alcohol microbiome cross talk and its role on immune function
4. Alcohol and tissue immunity impact on barrier function, immune stromal cell crosstalk
5. Alcohol and immune responses to vaccines and infections
6. Impact of alcohol on immune metabolism and mitochondrial dysfunction
7. Sex differences in the impact of heavy drinking on immune responses
8. Organ-organ interactions and immunity

o Gut-Lung-Liver axis
o Gut-brain axis
o Liver-brain axis

Cellular and Molecular Mechanisms Underlying the Pathogenesis of Hepatic Fibrosis Ralf Weiskirchen, 2020-12-29

Worldwide liver fibrosis is a major cause of morbidity and mortality and is associated with a high medical and economic burden. It is the common consequence of chronic liver injury due to various etiologies. During fibrogenesis, there is a progressive substitution of the liver parenchyma by scar tissue. Recent advances in the understanding of the history of liver fibrosis have shown that the pathogenesis is driven by different cell types and a large variety of soluble mediators. At present, scientists working in this field aim to increase basic knowledge, improve diagnostics and try to translate experimental findings into new treatment modalities. This book includes 12 selected contributions from the Special Issue *Cellular and Molecular Mechanisms Underlying the Pathogenesis of Hepatic Fibrosis* that was published in *Cells*. These articles summarize current perspectives and findings in hepatic fibrosis research, showing how scientists try to use basic

scientific research to create new therapies and diagnostics Research Grants Index National Institutes of Health (U.S.). Division of Research Grants,1967 Introduction to Enhanced Oil Recovery (EOR) Processes and Bioremediation of Oil-Contaminated Sites Laura Romero-Zerón,2012-05-23 This book offers practical concepts of EOR processes and summarizes the fundamentals of bioremediation of oil contaminated sites The first section presents a simplified description of EOR processes to boost the recovery of oil or to displace and produce the significant amounts of oil left behind in the reservoir during or after the course of any primary and secondary recovery process it highlights the emerging EOR technological trends and the areas that need research and development while the second section focuses on the use of biotechnology to remediate the inevitable environmental footprint of crude oil production such is the case of accidental oil spills in marine river and land environments The readers will gain useful and practical insights in these fields *52nd International Congress of Meat Science and Technology* Declan Troy,Rachel Pearce,Briege Byrne,Joseph Kerry,2023-08-28 This book contains over 300 offered papers in addition to 4 papers from invited speakers presented at the 52nd International Congress of Meat Science and Technology held in Dublin Ireland from 13 18 August 2006 Under the theme of harnessing and exploiting global opportunities areas covered in the congress included meat quality encompassing genomics and biotechnology animal production and production systems muscle biology and biochemistry meat safety meat processing and packaging technology consumer topics and meat and health A new approach this year was to address specific hot topics important to the industry and meat scientists in particular electrical stimulation and new instrumental methods for evaluation of meat quality characteristics These proceedings reflect the truly global nature of meat research and give an insight into the current research issues for the industry **Hydrocarbon Biotechnology** Wael Ahmed Ismail,Jonathan Van Hamme,2022-11-24 This volume offers environmentally friendly technical solutions that can be implemented to solve problems throughout the value chain of the fossil fuel industry This new book presents an up to date view of hydrocarbon microbiology and biotechnology presented by experts around the world with interest in how our expanding understanding of hydrocarbonoclast ecology and physiology can translate to better tools for bioremediation oil recovery bio upgrading of unconventional crudes the development of biorefining technologies and the production of hydrogen and electricity from hydrocarbon wastes The common theme across the chapters in this book is an interest in how developing hydrocarbon biotechnologies may reduce our impact on the global environment Written by eminent scientists from both academia and industry the book starts with a historical perspective on hydrocarbon chemistry and formation petroleum microbiology and biotechnology This is followed by a review of recent research developments in bioremediation and other biotechnologies for hydrocarbons the principal constituents of petroleum and natural gas

Microbial Permeability Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Microbial Permeability**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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