

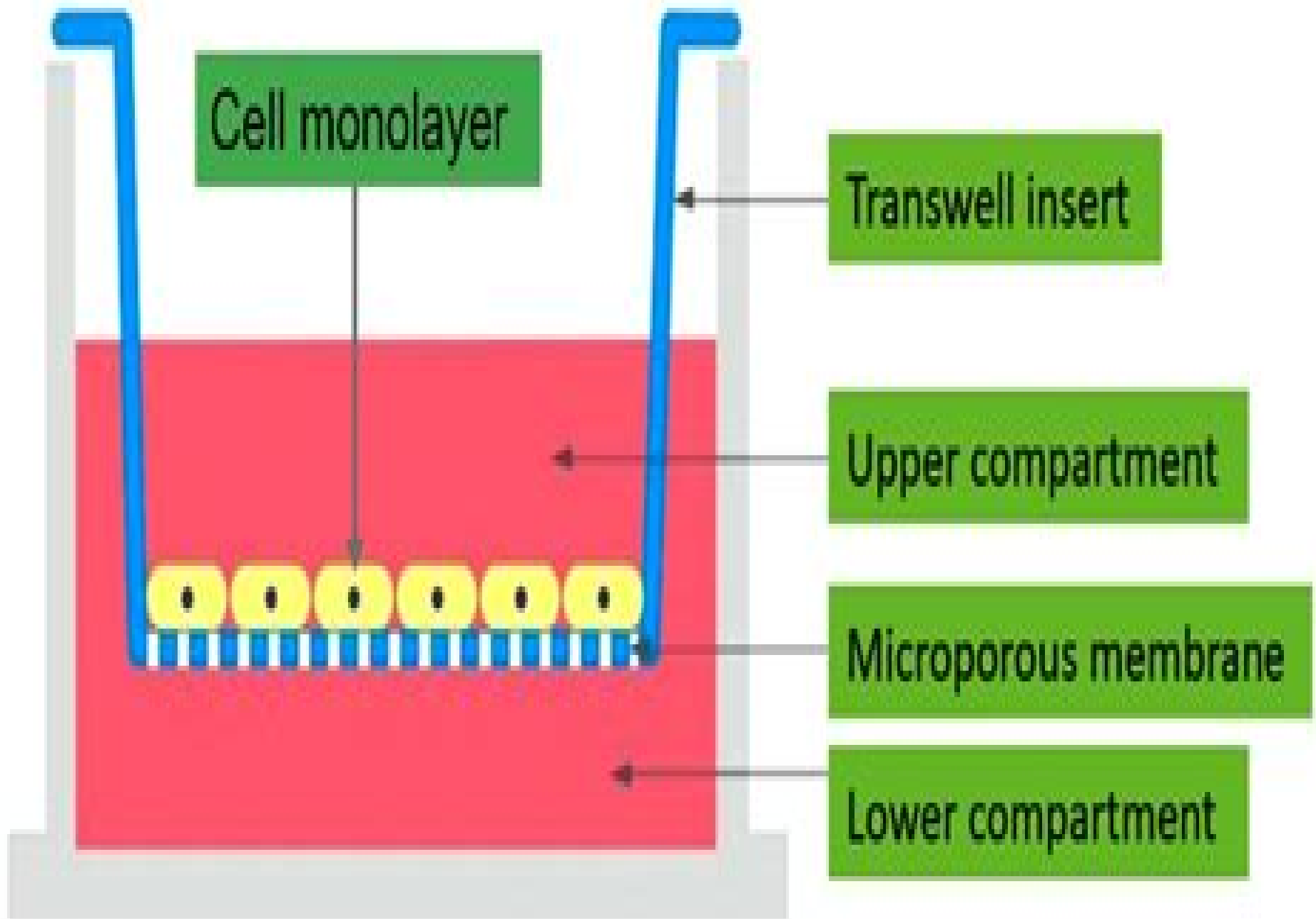
Cell monolayer

Transwell insert

Upper compartment

Microporous membrane

Lower compartment



Microbial Permeability

**Marina I. Arleevskaya, Rustam
Aminov, Wesley H. Brooks, Gayane
Manukyan, Yves Renaudineau**

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

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. Microbial Permeability John P. Reeves, 1973

Fundamentals of Enhanced Oil and Gas Recovery from Conventional and Unconventional Reservoirs Alireza Bahadori, 2018-08-18 Fundamentals of Enhanced Oil and Gas Recovery from Conventional and Unconventional Reservoirs delivers the proper foundation on all types of currently utilized and upcoming enhanced oil recovery, including methods used in emerging unconventional reservoirs. Going beyond traditional secondary methods, this reference includes advanced water

based EOR methods which are becoming more popular due to CO₂ injection methods used in EOR and methods specific to target shale oil and gas activity Rounding out with a chapter devoted to optimizing the application and economy of EOR methods the book brings reservoir and petroleum engineers up to speed on the latest studies to apply Enhanced oil recovery continues to grow in technology and with ongoing unconventional reservoir activity underway enhanced oil recovery methods of many kinds will continue to gain in studies and scientific advancements Reservoir engineers currently have multiple outlets to gain knowledge and are in need of one product go to reference Explains enhanced oil recovery methods focusing specifically on those used for unconventional reservoirs Includes real world case studies and examples to further illustrate points Creates a practical and theoretical foundation with multiple contributors from various backgrounds Includes a full range of the latest and future methods for enhanced oil recovery including chemical waterflooding CO₂ injection and thermal

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

Inhibition and Destruction of the Microbial Cell W Hugo,2012-12-02 Inhibition and Destruction of the Microbial Cell focuses on the effects of various classes of toxic chemical agents on microbial cell This book is organized into 14 chapters that cover the topics from two points of view the agent and the target the microbial cell The introductory chapters are devoted to the inhibitory effects of elevating temperature and to the lethal effect of environmental thermal energy supply restriction on growing bacteria A chapter focuses on the effect of various classes of antibacterial compounds such as 4 amino quinaldinium and 8 hydroxyquinoline derivatives chlorhexidine amidines halogens dyes and nitrofurans The subsequent chapters examine the effects of other chemical agents on microorganisms including toxic gases solutes ions and radiations The book goes on examining the inhibition and destruction of specific microorganisms such as Pseudomonas aeruginosa Enterobacteriaceae Mycobacteria Cocci bacterial spores molds yeasts and viruses The last chapter discusses the effect of the cultural prehistory of microorganisms upon their response to inhibition and destruction This book is an invaluable resource for graduate research workers and scientists in pure and applied microbiology This will also be a good reference for undergraduates reading specialized courses at honors level in microbiology or applied courses in food science and agriculture Furthermore it will be of interest to the medical profession especially those involved in public health and pathology as well as to scientists in the pharmaceutical industry

Petroleum Microbiology Trevor Jones,Jean-Paul Vandecasteele, Hydrocarbons and their derivatives oxygenated and chlorinated in particular both natural and xenobiotic represent a very large class of compounds whose conversions and degradation by microorganisms cover an extremely rich

field whose concepts are detailed in this book The fascinating evolution of these concepts over the last twenty years has revealed the extent of the processes implemented in the environment and has multiplied their industrial applications The resulting achievements and the current developments are described in this book The English edition of this reference manual is an entirely revised and updated version of the French edition It is intended for professionals microbiologists and chemists as well as scientists engineers teachers and post doctoral researchers who are interested by the conversions of hydrocarbons and by microbial ecology The French edition of this book was awarded a special mention for engineering education text book by the Roberval Prize committee in 2007

Enhanced Oil Recovery Field Case Studies James J. Sheng, 2013-04-10 This chapter presents microbial enhanced oil recovery MEOR mechanisms first Microbes and nutrients used in MEOR are introduced Screening criteria are listed Finally several microbial field applications are presented These applications include single well microbial huff and puff microbial waterflooding wellbore stimulation to remove wellbore or formation damage and MEOR using indigenous microbes

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

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 interacts 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

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 understanding of the physical processes involved in fluid flow and transport This fact can be attributed to the complexity of the phenomena which include multicomponent fluids multiphase flow and rock fluid interactions Since its formulation in 1856 Darcy s law has been generalized to describe multi phase compressible fluid flow through anisotropic and heterogeneous porous and fractured rocks Due to the scarcity of information a high degree of uncertainty on the porous medium properties is commonly present Contributions to the knowledge of modeling flow and transport as well as to the characterization of porous media at field scale are of great relevance This book addresses several of these issues treated with a variety of methodologies grouped into four parts I Fundamental concepts II Flow and transport III Statistical and stochastic characterization IV Waves The problems analyzed in this book cover diverse length scales that range from small rock samples to field size porous formations They belong to the most active areas of research in porous media with applications in geosciences developed by diverse authors This book was written for a broad audience with a prior and basic knowledge of porous media The book is addressed to a wide readership and it will be useful not only as an authoritative textbook for undergraduate and graduate students but also as a reference source for professionals including geoscientists hydrogeologists geophysicists engineers applied mathematicians and others working on porous media

Leaky Gut Syndrome: Pathophysiology, Diagnosis, and Integrative Management Dr. Spineanu Eugenia, Leaky Gut Syndrome Pathophysiology

Diagnosis and Integrative Management is an authoritative and comprehensive treatise on a complex gastrointestinal condition This in depth guide explores the latest scientific insights into the mechanisms of leaky gut syndrome including its impact on gut permeability systemic health and associated disorders Readers will find detailed information on the structural and functional aspects of the intestinal mucosa the role of gut microbiota and the biochemical markers of permeability The treatise provides a thorough overview of diagnostic criteria laboratory tests and imaging techniques alongside evidence based conventional and complementary treatments Emphasizing a holistic approach it integrates dietary interventions probiotics stress management and lifestyle modifications to optimize gut health This resource is essential for healthcare professionals researchers and individuals seeking a deeper understanding of leaky gut syndrome and effective management strategies

Enzyme Technologies for Pharmaceutical and Biotechnological Applications Herbert A Kirst,Wu-Kuang Yeh,2001-06-05 A review of enzyme function in human and animal health this book covers basic principles and applications in antibiotic biosynthesis biocatalysis and screening and assay optimization as well as new and emerging technologies in the biotechnological and pharmaceutical industries It offers real world examples of timely laboratory pharmaceutical and manufacturing processes including large scale applications of enzyme manipulations

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

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 **Microbial Permeability**

Reeves,1973-08-01 **List of BPO Publications** Bartlesville Project Office,1992 Shaping of Human Immune System

and Metabolic Processes by Viruses and Microorganisms Marina I. Arleevskaya,Rustam Aminov,Wesley H. Brooks,Gayane

Manukyan,Yves Renaudineau,2019-08-15 Recent advances in the understanding of microbiota in health and diseases are

presented in this special issue of Frontiers in Immunology and Frontiers in Microbiology as well as their impact on the

immune system that can lead to the development of pathologies Potential perspectives and biomarkers are also addressed

We offer this Research Topic involving 64 articles and 501 authors to discuss recent advances regarding 1 An overview of the

human microbiota and its capacity to interact with the human immune system and metabolic processes 2 New developments

in understanding the immune system s strategies to respond to infections and escape strategies used by pathogens to

counteract such responses 3 The link between the microbiota and pathology in terms of autoimmunity allergy cancers and

other diseases *Fruit and Vegetable Phytochemicals* Elhadi M. Yahia,2017-08-29 Now in two volumes and containing more

than seventy chapters the second edition of Fruit and Vegetable Phytochemicals Chemistry Nutritional Value and Stability

has been greatly revised and expanded Written by hundreds of experts from across the world the chapters cover diverse

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