Microlfudics

Microalgae-Based SystemsMicrofluidics for Medical ApplicationsMicroscale AcoustofluidicsSmart Materials for Tissue EngineeringHuman-based Systems for Translational ResearchIntracellular Delivery IIIIntroduction to Single Cell OmicsHayes' Principles and Methods of ToxicologyMicrofluidicsMicrofluidicsHighly Integrated Microfluidics DesignMicrofluidics and Lab-on-a-chipIntroduction to MicrofluidicsAdvances in MicrofluidicsMicrofluidics and Nanofluidics HandbookMicrofluidicsMicrofluidic Technology and ApplicationsMicrofluidics: History, Theory and ApplicationsEncyclopedia of Microfluidics and NanofluidicsOpen-Space Microfluidics Eduardo Jacob-Lopes Albert van den Berg Thomas Laurell Qun Wang Robert Coleman Ale Prokop Xinghua Pan A. Wallace Hayes Yujun Song Yujun Song Dan E. Angelescu Andreas Manz Patrick Tabeling Ryan Kelly Sushanta K. Mitra Bingcheng Lin Michael Koch William B. J. Zimmerman Dongqing Li Emmanuel Delamarche

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process integration and intensification are means to improve the sustainability metrics of the industrial processes balancing the pillars of economy environment and social demand the book covers a sequential framework for the design and operation of microalgae based facilities using process integration and intensifi cation discusses products and applications and provides a global perspective with contributions from renowned experts covers relevant opportunities of process integration and intensification applied to microalgae based systems provides a complete review of the state of the art of these industrial approaches presents new insights into industrial sustainability

lab on a chip devices for point of care diagnostics have been present in clinics for several years now alongside their continual development research is underway to bring the organs and tissue on a chip to the patient amongst other medical applications of microfluidics this book provides the reader with a comprehensive review of the latest developments in the application of microfluidics to medicine and is divided into three main sections the first part of the book discusses the state of the art in organs and tissue on a chip the second provides a thorough background to microfluidics for medicine and the third and largest section provides numerous examples of point of care diagnostics written with students and practitioners in mind and with contributions from the leaders in the field across the globe this book provides a complete digest of the state of the art in microfluidics medical devices and will provide a handy resource for any laboratory or clinic involved in the development or application of such devices

the manipulation of cells and microparticles within microfluidic systems using external forces is valuable for many microscale analytical and bioanalytical applications acoustofluidics is the ultrasound based external forcing of microparticles with microfluidic systems it has gained much interest because it allows for the simple label free separation of microparticles based on their mechanical properties without affecting the microparticles themselves microscale acoustofluidics provides an introduction to the field providing the background to the fundamental physics including chapters on governing equations in microfluidics and perturbation theory and ultrasound resonances acoustic radiation force on small particles continuum mechanics for ultrasonic particle manipulation and piezoelectricity and application to the excitation of acoustic fields for ultrasonic particle manipulation the book also provides information on the design and characterization of ultrasonic particle manipulation devices as well as applications in acoustic trapping and immunoassays written by leading experts in the field the book will appeal to postgraduate students and researchers interested in microfluidics and lab on a chip applications

in recent years there has been tremendous progress in the area of tissue engineering research this book focusses on the fundamental principles underpinning these recent advances in the materials science developed for tissue engineering purposes smart materials for tissue engineering are produced by modifying the physicochemical and biological properties of the scaffolds with response to external stimuli to enhance the tissue regeneration the functions of living cells can be regulated by smart materials which respond to changes in the surrounding microenvironment this book comprehensively documents the recent advancements in smart materials for tissue engineering and will provide an essential text for those working in materials science and materials engineering in academia and industry

this book provides a history and discussion of the use of human tissues as an alternative to animal based testing for assessing the efficacy and safety of new medicines beginning by providing a historical background to animal based testing this text then describes in detail the issues relating to access to human cells and tissue and the rules and regulations governing their use the book illustrates what is currently possible in humanising medicines research and development and suggests more rational and reliable means of developing safe and effective drugs for the future than those on which we currently rely early chapters establish the need to generate more data in human derived test systems and the need for resources such as tissue banks and standardised processes whilst highlighting the barriers that have prevented such developments so far subsequent chapters explore the alternatives to current animal toxicology studies including stem cells and computational models with balanced views of the technical challenges and opportunities these offer in addition useful information on computational methods and pharmacokinetics are included this book is an essential read for anyone engaged in translational drug discovery who wishes to consolidate their understanding and broaden their awareness of the key issues involved in accessing primary human tissue and the advantages of doing so

a critical review is attempted to assess the status of nanomedicine entry onto the market the emergence of new potential therapeutic entities such as dna and rna fragments requires that these new drugs will need to be delivered in a cell and organelle specific manner although efforts have been made over the last 50 years or so to develop such delivery technology no effective and above all clinically approved protocol for cell specific drug delivery in humans exists as yet various particles macromolecules liposomes and most recently nanomaterials have been said to show promise but none of these promises have so far been reduced to human clinical practice the focus of this volume is on cancer indication since the majority of published research relates to this application within that we focus on solid tumors solid malignancies our aim is critically to evaluate whether nanomaterials both non targeted and targeted to specific cells could be of therapeutic benefit in clinical practice the emphasis of this volume will be on pharmacokinetics pk and pharmacodynamics pd in animal and human studies apart from the case of exquisitely specific antibody based drugs the development of target specific drug carrier delivery systems has not yet been broadly successful at the clinical level it can be argued that drugs generated using the conventional means of drug development i e relying on facile biodistribution and activity after preferably oral administration are not suitable for a target specific delivery and would not benefit from such delivery even when a seemingly perfect delivery system is available therefore successful development of site selective drug delivery systems will need to include not only the development of suitable carriers but also the development of drug entities that meet the required pk pd profile

single cell omics is a progressing frontier that stems from the sequencing of the human genome and the development of omics technologies particularly genomics transcriptomics epigenomics and proteomics but the sensitivity is now improved to single cell level the new generation of methodologies especially the next generation sequencing ngs technology plays a leading role in genomics related fields however the conventional techniques of omics require number of cells to be large usually on the order of millions of cells which is hardly accessible in some cases more importantly harnessing the power of omics technologies and applying those at the single cell level are crucial since every cell is specific and unique and almost every cell population in every systems derived in either vivo or in vitro is heterogeneous deciphering the heterogeneity of the cell population hence becomes critical for recognizing the mechanism and significance of the system however without an extensive examination of individual cells a massive analysis of cell population would only give an average output of the cells but neglect the differences among cells single cell omics seeks to study a number of individual cells in parallel for their different dimensions of molecular profile on genome wide scale providing unprecedented resolution for the interpretation of both the structure and function of an organ tissue or other system as well as the interaction and communication and dynamics of single cells or subpopulations of cells and their lineages importantly single cell omics enables the identification of a minor subpopulation of cells that may play a critical role in biological process over a dominant subpolulation such as a cancer and a developing organ it provides an ultra sensitive tool for us to clarify specific molecular mechanisms and pathways and reveal the nature of cell heterogeneity besides it also empowers the clinical investigation of patients when facing a very low quantity of cell available for analysis such as noninvasive cancer screening with circulating tumor cells ctc noninvasive prenatal diagnostics nipd and preimplantation genetic test pgt for in vitro fertilization single cell omics greatly promotes the understanding of life at a more fundamental level bring vast applications in medicine accordingly single cell omics is also called as single cell analysis or single cell biology within only a couple of years single cell omics especially transcriptomic sequencing scrna seq whole genome and exome sequencing scwgs scwes has become robust and broadly accessible besides the existing technologies recently multiplexing barcode design and combinatorial indexing technology in combination with microfluidic platform exampled by drop seq or even being independent of microfluidic platform but using a regular pcr plate enable us a greater capacity of single cell analysis switching from one single cell to thousands of single cells in a single test the unique molecular identifiers umis allow the amplification bias among the original molecules to be corrected faithfully resulting in a reliable quantitative measurement of omics in single cells of late a variety of single cell epigenomics analyses are becoming sophisticated particularly single cell chromatin accessibility scatac seq and cpg methylation profiling scbs seq scrrbs seq high resolution single molecular fluorescence in situ hybridization smfish and its revolutionary versions ex seqfish merfish and so on in addition to the spatial transcriptome sequencing make the native relationship of the individual cells of a tissue to be in 3d or 4d format visually and quantitatively clarified on the other hand crispr cas9 editing based in vivo lineage tracing methods enable dynamic profile of a whole developmental process to be accurately displayed multi omics analysis facilitates the study of multi dimensional regulation and relationship of different elements of the central dogma in a single cell as well as permitting a clear dissection of the complicated omics heterogeneity of a system last but not the least the technology biological noise sequence dropout and batch effect bring a huge challenge to the bioinformatics of single cell omics while significant progress in the data analysis has been made since then revolutionary theory and algorithm logics for single cell omics are expected indeed single cell analysis exert considerable impacts on the fields of biological studies particularly cancers neuron and neural system stem cells embryo development and immune system other than that it also tremendously motivates pharmaceutic rd clinical diagnosis and monitoring as well as precision medicine this book hereby summarizes the recent developments and general considerations of single cell analysis with a detailed presentation on selected technologies and applications starting with the experimental design on single cell omics the book then emphasizes the consideration on heterogeneity of cancer and other systems it also gives an introduction of the basic methods and key facts for bioinformatics analysis secondary this book provides a summary of two types of popular technologies the fundamental tools on single cell isolation and the developments of single cell multi omics followed by descriptions of fish technologies though other popular technologies are not covered here due to the fact that they are intensively described here and there recently finally the book illustrates an elastomer based integrated fluidic circuit that allows a connection between single cell functional studies combining stimulation response imaging and measurement and corresponding single cell sequencing this is a model system for single cell functional genomics in addition it reports a pipeline for single cell proteomics with an analysis of the early development of xenopus embryo a single cell qrt pcr application that defined the subpopulations related to cell cycling and a new method for synergistic assembly of single cell genome with sequencing of amplification product by phi29 dna polymerase due to the tremendous progresses of single cell omics in recent years the topics covered here are incomplete but each individual topic is excellently addressed significantly interesting and beneficial to scientists working in or affiliated with this field

hayes principles and methods of toxicology has long been established as a reliable and informative reference for the concepts methodologies and assessments integral to toxicology the new edition contains updated and new chapters with the addition of new authors while maintaining the same high standards that have made this book a benchmark resource in the field key features the comprehensive yet concise coverage of various aspects of fundamental and applied toxicology makes this book a valuable resource for educators students and professionals questions provided at the end of each chapter allow readers to test their knowledge and understanding of the material covered all chapters have been updated and over 60 new authors have been added to reflect the dynamic nature of toxicological sciences new topics in this edition include safety assessment of cosmetics and personal care products the importance of the dose rate response novel approaches and alternative models epigenetic toxicology and an expanded glossary the volume is divided into 4 major sections addressing fundamental principles of toxicology section i principles of toxicology major classes of established chemical hazards section ii agents current methods used for the assessment of various endpoints indicative of chemical toxicity section iii methods as well as toxicology of specific target systems and organs section iv organ and system specific toxicology this volume will be a valuable tool for the audience that wishes to broaden their understanding of hazards and mechanisms of toxicity and to stay on top of the emerging methods and concepts of the rapidly advancing field of toxicology and risk assessment

the first book offering a global overview of fundamental microfluidics and the wide range of possible applications for example in chemistry biology and biomedical science as such it summarizes recent progress in microfluidics including its origin and development the theoretical fundamentals and fabrication techniques for microfluidic devices the book also comprehensively covers the fluid mechanics physics and chemistry as well as applications in such different fields as detection and synthesis of inorganic and organic materials a useful reference for non specialists and a basic guideline for research scientists and technicians already active in this field or intending to work in microfluidics

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the recent development of microfluidics has lead to the concept of lab on a chip where several functional blocks are combined into a single device that can perform complex manipulations and characterizations on the microscopic fluid sample however integration of multiple functionalities on a single device can be complicated this a cutting edge resource focuses on the crucial aspects of integration in microfluidic systems it serves as a one stop guide to designing microfluidic systems that are highly integrated and scalable this practical book covers a wide range of critical topics from fabrication techniques and simulation tools to actuation and sensing functional blocks and their inter compatibility this unique reference outlines the benefits and drawbacks of different approaches to microfluidic integration and provides a number of clear examples of highly integrated microfluidic systems

microfluidic technology is revolutionising a number of scientific fields including chemistry biology diagnostics and engineering the ability to manipulate fluids and objects within networks of micrometre scale channels allows reductions in processing and analysis times reagent and sample consumption and waste production whilst allowing fine control and monitoring of chemical or biological processes the integration of multiple components and processes enable lab on a chip devices and micro total analysis systems that have applications ranging from analytical chemistry organic synthesis and clinical diagnostics to cell biology and tissue engineering this concise easy to read book is perfectly suited for instructing newcomers on the most relevant and important aspects of this exciting and dynamic field particularly undergraduate and postgraduate students embarking on new studies or for those simply interested in learning about this widely applicable technology written by a team with more than 20 years of experience in microfluidics research and teaching the book covers a range of topics and techniques including fundamentals e g scaling laws and flow effects microfabrication and materials standard operations e g flow control detection methods and applications furthermore it includes questions and answers that provide for the needs of students and teachers in the area

this new edition is a comprehensive update of introduction to microfluidics showing the fundamentals of the technology providing concepts and methods for understanding designing and microfabricating microfluidics devices

advances in microfluidics provides a current snapshot of the field of microfluidics as it relates to a variety of sub disciplines the chapters have been divided into three sections fluid dynamics technology and applications although a number of the chapters contain aspects that make them applicable to more than one section it is hoped that this book will serve as a useful resource for recent entrants to the field as well as for established practitioners

this comprehensive handbook presents fundamental aspects fabrication techniques introductory materials on microbiology and chemistry measurement techniques and applications of microfluidics and nanofluidics the second volume focuses on topics related to experimental and numerical methods it also covers fabrication and applications in a variety of areas from aerospace to biological systems reflecting the inherent nature of microfluidics and nanofluidics the book includes as much interdisciplinary knowledge as possible it provides the fundamental science background for newcomers and advanced techniques and concepts for experienced researchers and professionals

flow control methods and devices in micrometer scale channels by shuichi shoji and kentaro kawai micromixing within microfluidic devices by lorenzo capretto wei cheng martyn hill and xunli zhang basic technologies for droplet microfluidics by shaojiang zeng xin liu hua xie and bingcheng lin electrorheological fluid and its applications in microfluidics by limu wang xiuqing gong and weijia wen biosensors in microfluidic chips by jongmin noh hee chan kim and taek dong chung a nanomembrane based nucleic acid sensing platform for portable diagnostics by satyajyoti senapati sagnik basuray zdenek slouka li jing cheng and hsueh chia chang optical detection systems on microfluidic chips by hongwei gai yongjun li and edward s yeung integrated microfluidic systems for dna analysis by samuel k njoroge hui wen chen ma gorzata a witek and steven a soper integrated multifunctional microfluidics for automated proteome analyses by john k osiri hamed shadpour ma gorzata a witek and steven a soper cells in microfluidics by chi zhang and danny van noort microfluidic platform for the study of caenorhabditis elegans by weiwei shi hui wen bingcheng lin and jianhua qin

discusses different modelling techniques in microfluidics fem and cfd every reader will have an easy start to model any kind of microfluidic device presents the necessary fabrication technologies and examples of the latest microfluidic devices and systems microfluidics is a very new research area in microelectro mechanical systems mems this book introduces the theory and practice of microfluidic technology the content is designed to be of value to engineers with different backgrounds working in the area of microsystem technology the book includes the necessary fabrication technologies and examples of the latest microfluidic devices and systems that have been realised by a worldwide community of researchers it covers all aspects of microfluidic theory and describes the breath taking developments in this field

microfluidics is a microtechnological field dealing with the precise transport of fluids liquids or gases in small amounts e g microliters nanoliters or even picoliters this book provides a useful introduction into this burgeoning field and a specific application of microfluidics is presented it also gives a survey of microfluidics

covering all aspects of transport phenomena on the nano and micro scale this encyclopedia features over 750 entries in three alphabetically arranged volumes including the most up to date research insights and applied techniques across all areas coverage includes electrical double layers optofluidics dnc lab on a chip nanosensors and more

summarizing the latest trends and the current state of this research field this up to date book discusses in detail techniques to perform localized alterations on surfaces with great flexibility including microfluidic probes multifunctional nanopipettes and various surface patterning techniques such as dip pen nanolithography these techniques are also put in perspective in terms of applications and how they can be transformative of numerous bio chemical processes involving surfaces the editors are from ibm zurich the pioneers and pacesetters in the field at the forefront of research in this new and rapidly expanding area

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