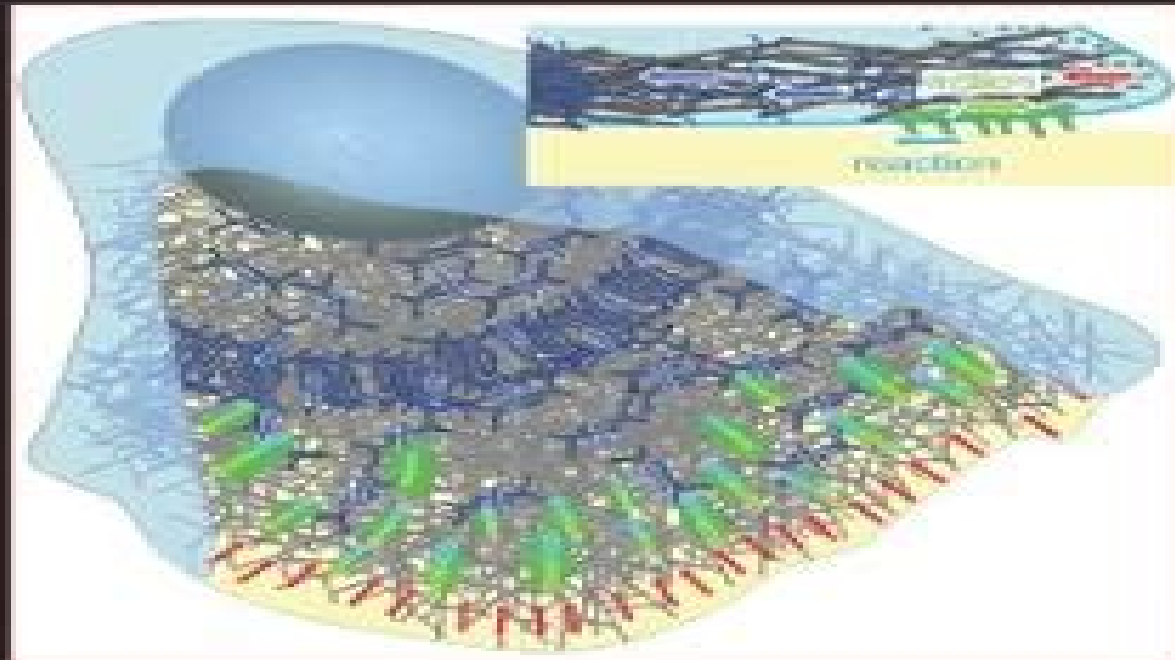


Methods in Cell Biology • Volume 83

CELL MECHANICS



Edited by

Yu-Li Wang • Dennis E. Discher



Cell Mechanics Volume 83 Methods In Cell Biology

Michael Seilmaier



Cell Mechanics Volume 83 Methods In Cell Biology:

Cell Mechanics Yu-Li Wang, Dennis E. Discher, 2007-07-05 Cell mechanics is the field of study that looks at how cells detect modify and respond to the physical properties of the cell environment Cells communicate with each other through chemical and physical signals which are involved in a range of process from embryogenesis and wound healing to pathological conditions such as cancerous invasion Similar principles are also likely to be critical for success in regenerative medicine Cell mechanics is thus central to understanding these principles As cell mechanics draws from the fields of biology chemistry physics engineering and mathematics this book aims not only to provide a collection of research methods but also to develop a common language among scientists who share the interest in cell mechanics but enter the field with diverse backgrounds To this end all of the contributing authors have sought to explain in plain language the nature of the biological problems the rationale for the approaches in addition to the methods themselves In addition to balance practical utility against conceptual advances Cell Mechanics has intentionally included both chapters that provide detailed recipes and those that emphasize basic principles Presents a distinctive emphasis on matrix mechanics and their interplay with cell functions Includes highly significant topics relevant to basic and translational research as well as tissue engineering Emphasizes mechanical input and output of cells

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Laboratory Methods in Cell Biology, 2012-12-31 Cell biology spans among the widest diversity of methods in the biological sciences From physical chemistry to microscopy cells have given up with secrets only when the questions are asked in the right way This new volume of Methods in Cell Biology covers laboratory methods in cell biology and includes methods that are among the most important and elucidating in the discipline such as transfection cell enrichment and magnetic batch separation Covers the most important laboratory methods in cell biology Chapters written by experts in their fields

Cell Mechanics and Tumor Development Ronald L. Huston, 2020 The focus of this book is on centrioles small organelles adjacent to the nucleus in all human and animal eucaryotic cells It provides the findings and critical analyses of over 750 articles written in this century In addition to centrioles the topics include centrosomes chromosomes microtubules and kinetochores cell division and duplication and tumor development The book also includes discussions on centriole dynamics and electromagnetics effects It concludes with a chapter on centriole errors particularly cells with supernumerary centrioles The book is intended for students scholars and researchers studying and working in the field of nuclear mechanics In addition to the book content it provides a guide for literature investigation Publisher s website

Computational Methods in Cell Biology Anand R. Asthagiri, Adam

Arkin,2012-04-13 Computational methods are playing an ever increasing role in cell biology This volume of *Methods in Cell Biology* focuses on Computational Methods in Cell Biology and consists of two parts 1 data extraction and analysis to distill models and mechanisms and 2 developing and simulating models to make predictions and testable hypotheses Focuses on computational methods in cell biology Split into 2 parts data extraction and analysis to distill models and mechanisms and developing and simulating models to make predictions and testable hypotheses Emphasizes the intimate and necessary connection with interpreting experimental data and proposing the next hypothesis and experiment **Laboratory Methods in Cell Biology: Imaging**,2013-01-03 Cell biology spans among the widest diversity of methods in the biological sciences From physical chemistry to microscopy cells have given up with secrets only when the questions are asked in the right way This new volume of *Methods in Cell Biology* covers laboratory methods in cell biology and includes methods that are among the most important and elucidating in the discipline such as bioluminescent imaging of gene expressions confocal imaging and electron microscopy of bone Covers the most important laboratory methods in cell biology Chapters written by experts in their fields **Mechanobiology: Emerging Tools and Methods** Sara Baratchi,Khashayar Khoshmanesh,Charles David Cox,Guillermo Alberto Gomez,2020-08-19 *Rheology* Rajkumar Durairaj,2013-02-13 This book focuses on the current research in the area of rheology Rheological characterizations are performed on materials in order to understand the basic nature of a system quality control of raw materials and final products The rheological characterizations are important to study the effect of different parameters such as formulation shelf life and temperature on the quality of final products The book covers a broad range of rheology related topics such as microrheology capillary rheological measurements characterization of dense suspensions and numerical analysis of viscoelastic fluids *Adhesion of Cells, Viruses and Nanoparticles* Kevin Kendall,Michaela Kendall,Florian Rehfeldt,2010-11-15 *Adhesion of Cells Viruses and Nanoparticles* describes the adhesion of cells viruses and nanoparticles starting from the basic principles of adhesion science familiar to postgraduates and leading on to recent research results The underlying theory is that of van der Waals forces acting between cells and substrates embodied in the molecules lying at the surfaces together with the geometry and elasticity of the materials involved The first part describes the fundamental background to adhesion principles including the phenomenology the important equations and the modeling ideas Then the mechanisms of adhesion are explored in the second part including the elastic deformations of spheres and the importance of the energy of adhesion as measured in various tests It is demonstrated that adhesion of cells is statistical and depends on Brownian movement and on the complex multiple contacts that can form as cells move around Then detailed chapters on cell adhesion contact of viruses and aggregation of nanoparticles follow in Part 3 Finally the last chapter looks to the future understanding of cell adhesion and points out some interesting directions of research development and treatment of diseases related to these phenomena This book is an ideal resource for researchers on adhesion molecules receptors cell and tissue culturing virus infection toxicity of nanoparticles

and bioreactor fouling It can also be used to support undergraduate and Masters level teaching courses This is a fascinating book and it is an invaluable resource for understanding particle particle surface adhesion at micro and nano scales I intend to keep one for my future reference and highly recommend it to my students Prof Zhibing Zhang School of Chemical Engineering University of Birmingham UK **Handbook of Imaging in Biological Mechanics** Corey P. Neu, Guy M. Genin, 2014-10-24 Emerging imaging techniques have opened new fronts to investigate tissues cells and proteins Transformative technologies such as microCT scans super resolution microscopy fluorescence based tools and other methods now allow us to study the mechanics of cancer dissect the origins of cellular force regulation and examine biological specimens

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