

Marie-France Carlier
Editor

Actin-based Motility

Cellular, Molecular
and Physical Aspects

 Springer

Actin Based Motility Cellular Molecular And Physical Aspects

Patrick Vollmar



Actin Based Motility Cellular Molecular And Physical Aspects:

Actin-based Motility Marie-France Carlier, 2010-09-23 Since the discovery of actin by Straub in the 1950 s and the pioneering work of Oosawa on actin self assembly in helical filaments in the 1960 s many books and conference proceedings have been published As one of the most essential proteins in life essential for movement in organisms ranging from bacteria to higher eukaryotes it is no surprise that actin has fascinated generations of scientists from many different fields Actin can be considered as a living treasure of biology the kinetics and thermodynamics of self assembly the dissipative nature of actin polymerization the molecular interactions of monomeric and polymerized actin with regulators the mechanical properties of actin gels and more recently the force producing motile and morphogenetic processes organized by the actin nanomachine in response to signaling are all milestones in actin research Discoveries that directly derive from and provide deeper insight into the fundamental properties of actin are constantly being made making actin an ever appealing research molecule At the same time the explosion in new technologies and techniques in biological sciences has served to attract researchers from an expanding number of disciplines to study actin This book presents the latest developments of these new multiscale approaches of force and movement powered by self assembly processes with the hope of opening our perspectives on the many areas of actin based motility research

Biomechanics of Cells and Tissues Paola Lecca, 2013-01-18 The application of methodological approaches and mathematical formalisms proper to Physics and Engineering to investigate and describe biological processes and design biological structures has led to the development of many disciplines in the context of computational biology and biotechnology The best known applicative domain is tissue engineering and its branches Recent domains of interest are in the field of biophysics e.g multiscale mechanics of biological membranes and films and filaments multiscale mechanics of adhesion biomolecular motors and force generation Modern hypotheses models and tools are currently emerging and resulting from the convergence of the methods and interdisciplinary approaches of the different research areas and disciplines All these emerging approaches share the purpose of disentangling the complexity of organisms tissues and cells and mimicking the function of living systems The contributions presented in this book are current research highlights of six challenging and representative applicative domains of physical engineering and computational approaches in medicine and biology i.e tissue engineering modelling of molecular structures cell mechanics and cell adhesion processes cancer physics and physico chemical processes of metabolic interactions Each chapter presents a compendium or a review of the original results achieved by authors in the last years Furthermore the book also wants to pinpoint the questions that are still open and that could propel the future research

Encyclopedia of Biological Chemistry, 2013-01-08 The 4 volume Encyclopedia of Biological Chemistry Second Edition represents the current state of a dynamic and crucial field of study The Encyclopedia pulls together over 500 articles that help define and explore contemporary biochemistry with content experts carefully chosen by the Editorial Board to assure both breadth and depth in its coverage Editors In Chief

William J Lennarz and M Daniel Lane have crafted a work that proceeds from the acknowledgement that understanding every living process from physiology to immunology and genetics is impossible without a grasp on the basic chemistry that provides its underpinning Each article in the work provides an up to date snapshot of a given topic written by experts as well as suggestions for further readings for students and researcher wishing to go into greater depth Available on line via SciVerse ScienceDirect the functionality of the Encyclopedia will provide easy linking to referenced articles electronic searching as well an online index and glossary to aid comprehension and searchability This 4 volume set thoroughly up to date and comprehensive expertly captures this fast moving field Curated by two esteemed editors in chief and an illustrious team of editors and contributors representing the state of the field Suggestions for further readings offer researchers and students avenues for deeper exploration a wide ranging glossary aids comprehension

Biophysics of the Failing Heart R. John Solaro, Jil C. Tardiff, 2013-08-13 Subjects in the monograph *Biophysics of the Failing Heart* include state of the art chapters considering major biophysical mechanisms for why hearts responding to acquired or inherited stressors enter into maladaptive processes eventually leading to an inability of the heart to respond efficiently to hemodynamic loads especially during exercise The chapters describe biophysical techniques that have been applied to determine the triggers for the heart failure process as well as the mechanisms for sustaining the disorders These techniques include measurements of active and passive mechanical properties and hemodynamics at levels of organization ranging from molecules to hearts beating in situ Biophysical concepts and approaches are also applied to determination of signaling and signal transduction energetics ionic currents transport processes electro chemical and chemo mechanical coupling By its emphasis on biophysical aspects of a prevalent clinical condition the monograph is unique in its perspective and focus The breadth of information in the chapters all in one place will be of value to clinicians and researchers at all levels Modern research approaches and clinical understanding of heart failure demands integration of multiple aspects of the disorders In most cases combinations of clinician scientists and researchers author the chapters A main benefit of the book is couched in its didactic approach together with its emphasis on how biophysical concepts and techniques aid in diagnosis and development of new therapies

Cell Motility Peter Lenz, 2008 A much needed work that provides an authoritative overview of the fundamental biological facts theoretical models and current experimental developments in this fascinating area Cell motility is fundamentally important to a number of biological and pathological processes The main challenge in the field of cell motility is to develop a complete physical description on how and why cells move For this purpose new ways of modeling the properties of biological cells have to be found and this volume is a major stepping stone along the way

Diatom Gliding Motility Stanley A. Cohn, Kalina M. Manoylov, Richard Gordon, 2021-09-08 DIATOM GLIDING MOTILITY Moving photosynthetic organisms are still a great mystery for biologists and this book summarizes what is known and reports the current understanding and modeling of those complex processes The book covers a broad range of work describing our current state of understanding

on the topic including historic knowledge and misconceptions of motility evolution of diatom motility diatom ecology cell biology and biochemistry of diatom motility anatomy of motile diatoms observations of diatom motile behavior diatom competitive ability unique forms of diatom motility as found in the genus *Eunotia* and models of motility This is the first book attempting to gather such information surrounding diatom motility into one volume focusing on this single topic Readers will be able to gather both the current state of understanding on the potential mechanisms and ecological regulators of motility as well as possible models and approaches used to help determine how diatoms accomplish such varied behaviors as diurnal movements accumulation into areas of light niche partitioning to increase species success Given the fact that diatoms remain one of the most ecologically crucial cells in aquatic ecosystems we hope that this volume will act as a springboard towards future research into diatom motility and even better resolution of some of the issues in motility Audience Diatomists phycologists aquatic ecologists cellular physiologists environmental biologists biophysicists diatom nanotechnologists algal ecologists taxonomists

Metformin Anca Pantea Stoian, Manfredi Rizzo, 2020-05-27 The book *Metformin* aims to bring to light new concepts and trends related to the many metformin therapeutic features After a history of over 60 years with moments of decline and spectacular returns metformin can now be regarded as a universal panacea the valences of its therapeutics being increasingly appreciated both in the background treatment of diabetes and pre diabetes but also in reproductive pathology cancer cardiovascular disease and antiageing In this respect the mechanisms of action and the pharmacodynamics of metformin seem to be incompletely known a number of current studies have revealed new action valences

Molecular and Cellular Aspects of Plant Reproduction Rod J. Scott, A. D. Stead, 1994-11-24 Molecular aspects of flower morphogenesis for researchers and students from SEB Seminar The book will appeal to students and researchers in floral physiology

International Review of Cell and Molecular Biology Kwang W. Jeon, 2009-09-18 International Review of Cell Molecular Biology presents current advances and comprehensive reviews in cell biology both plant and animal Articles address structure and control of gene expression nucleocytoplasmic interactions control of cell development and differentiation and cell transformation and growth Authored by some of the foremost scientists in the field Provides up to date information and directions for future research Valuable reference material for advanced undergraduates graduate students and professional scientists

Biomedical Index to PHS-supported Research, 1988

Encyclopedia of Cell Biology, 2015-08-07 The *Encyclopedia of Cell Biology* Four Volume Set offers a broad overview of cell biology offering reputable foundational content for researchers and students across the biological and medical sciences This important work includes 285 articles from domain experts covering every aspect of cell biology with fully annotated figures abundant illustrations videos and references for further reading Each entry is built with a layered approach to the content providing basic information for those new to the area and more detailed material for the more experienced researcher With authored contributions by experts in the field the *Encyclopedia of Cell Biology* provides a fully cross referenced one stop resource for

students researchers and teaching faculty across the biological and medical sciences Fully annotated color images and videos for full comprehension of concepts with layered content for readers from different levels of experience Includes information on cytokinesis cell biology cell mechanics cytoskeleton dynamics stem cells prokaryotic cell biology RNA biology aging cell growth cell Injury and more In depth linking to Academic Press Elsevier content and additional links to outside websites and resources for further reading A one stop resource for students researchers and teaching faculty across the biological and medical sciences

Signalling Networks in Cell Shape and Motility Gregory R. Bock, Jamie A. Goode, 2005-10-31 This book features contributions from experts in cell biology genetics neurobiology immunology and structural biology The unifying element is that they all study processes of cell shape change and motility Several key questions in this field of research are discussed What are the organising principles behind cell shape change Are there master switches present in every cell type How are extracellular signals interpreted by the cell in order to activate intracellular mechanisms What is the influence of the extracellular matrix on cell movement and internal signalling pathways How do pathogens subvert cellular systems in order to stimulate or block their uptake The book addresses all of these important questions Data are presented on the key proteins that regulate cell shape the GTP binding proteins of the Rho family There are also extensive discussions of the potential applications of the data to clinical problems particularly that of cell motility in cancer

Fibrous Proteins: Muscle and Molecular Motors John M. Squire, David A.D. Parry, 2005-08-29 Molecular Motors and Muscle is the second of a three part series on Fibrous Proteins The books are based on a very successful workshop in Alpbach Austria on the general topic of Fibrous Proteins that gave rise to the award winning issue of Journal of Structural Biology There are two major types of protein Globular proteins which are often enzymes which speed up biochemical reactions and Fibrous proteins which often have more structural roles but can also have dynamic properties Fibrous proteins are usually either elongated molecules which pack together to form long filaments as in the case of the intermediate filaments in our hair and skin and as in collagen fibrils in tendons and bones or they are globular proteins which aggregate linearly to form long filaments such as actin filaments or microtubules Fibrous proteins act as molecular scaffolds in cells they can be involved in transport of cell organelles or even on a visible scale as in our muscles They provide the supporting structures of our skeletons bones tendons cartilage and skin They define the mechanical properties of our internal hollow organs such as the intestines heart and blood vessels They are vital for life and represent a fascinating subset of the proteome Advances in Protein Chemistry is available online on ScienceDirect full text online of volumes 53 onwards Elsevier book series on ScienceDirect gives multiple users throughout an institution simultaneous online access to an important compliment to primary research Digital delivery ensures users reliable 24 hour access to the latest peer reviewed content The Elsevier book series are compiled and written by the most highly regarded authors in their fields and are selected from across the globe using Elsevier's extensive researcher network For more information about the Elsevier Book Series on ScienceDirect Program please visit <http://www>

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Aspects of the Cytoskeleton ,2011-09-02 This volume provides an overview of the cytoskeleton particularly on the fundamental role the cytoskeleton plays in the regulation of cell structure and function This book represents new trends in cytoskeletal research that go beyond the traditional approach of identifying new proteins in the cytoskeleton but actually define how these proteins interact with signaling pathways While the major emphasis in this volume remains on the microfilament structure some discussion has been included in this volume to illustrate the similarities and differences between the three cytoskeletal elements namely the actin microfilament the intermediate filaments and the microtubules

Molecular and Cellular Biophysics Jack A. Tuszynski,2018-10-24 From quantum theory to statistical mechanics the methodologies of physics are often used to explain some of life s most complex biological problems Exploring this challenging yet fascinating area of study Molecular and Cellular Biophysics covers both molecular and cellular structures as well as the biophysical processes that occur in these structures Designed for advanced undergraduate and beginning graduate students in biophysics courses this textbook features a quantitative approach that avoids being too abstract in its presentation Logically organized from small scale molecular to large scale cellular systems the text first defines life discussing the scientific controversies between mechanists and vitalists the characteristics of living things and the evolution of life It then delves into molecular structures including nucleic acids DNA RNA interatomic interactions and hydrogen bonds After looking at these smaller systems the author probes the larger cellular structures He examines the cytoplasm the cytoskeleton chromosomes mitochondria motor proteins and more The book concludes with discussions on biophysical processes including oxidative phosphorylation diffusion bioenergetics conformational transitions in proteins vesicle transport subcellular structure formation and cell division

Cell and Matrix Mechanics Roland Kaunas,Assaf Zemel,2014-10-23 Explores a Range of Multiscale Biomechanics Mechanobiology Concepts Cell and Matrix Mechanics presents cutting edge research at the molecular cellular and tissue levels in the field of cell mechanics This book involves key experts in the field and covers crucial areas of cell and tissue mechanics with an emphasis on the roles of mechanical forces in cell matrix interactions Providing material in each chapter that builds on the previous chapters it effectively integrates length scales and contains for each length scale key experimental observations and corresponding quantitative theoretical models Summarizes the Three Hierarchical Levels of Cell Mechanics The book contains 14 chapters and is organized into three sections The first section focuses on the molecular level the second section details mechanics at the cellular level and the third section explores cellular mechanics at the tissue level The authors offer a thorough description of the roles of mechanical forces in cell and tissue biology and include specific examples They incorporate

descriptions of associated theoretical models and provide the data and modeling framework needed for a multi scale analysis In addition they highlight the pioneering studies in cell matrix mechanics by Albert K Harris The topics covered include The passive and active mechanical properties of cytoskeletal polymers and associated motor proteins along with the behavior of polymer networks The mechanical properties of the cell membrane with an emphasis on membrane protein activation caused by membrane forces The hierarchical organization of collagen fibrils revealing that a delicate balance exists between specific and nonspecific interactions to result in a structure with semicrystalline order as well as loose associations The roles of matrix mechanical properties on cell adhesion and function along with different mechanical mechanisms of cell cell interactions The effects of mechanical loading on cell cytoskeletal remodeling summarizing various modeling approaches that explain possible mechanisms regulating the alignment of actin stress fibers in response to stretching The mechanical testing of cell populated collagen matrices along with theory relating the passive and active mechanical properties of the engineered tissues Cell migration behavior in 3 D matrices and in collective cell motility The role of mechanics in cartilage development The roles of both cellular and external forces on tissue morphogenesis The roles of mechanical forces on tumor growth and cancer metastasis Cell and Matrix Mechanics succinctly and systematically explains the roles of mechanical forces in cell matrix biology Practitioners and researchers in engineering and physics as well as graduate students in biomedical engineering and mechanical engineering related to mechanobiology can benefit from this work

Molecular Biology of the Cell, 2004

The Oxford Handbook of Soft Condensed Matter Eugene M. Terentjev, David A. Weitz, 2015-02-26 Soft condensed matter is a relatively new topic Condensed matter has typically referred to more traditional liquids which have a long history of study or to solids which have focused more commonly on hard materials driven in large measure by the importance of structural materials or the metals and semiconductors which drove the rapid evolution of microelectronics It is only relatively recently over the past 20 to 30 years that soft condensed matter has matured into its own identifiable field However the field is an amalgam of many subfields and many of these have themselves much longer histories This handbook serves as an overview of many of these topics Because of the great breadth it is impossible to include them all nevertheless the key subjects of soft condensed matter are represented here Together they form both an introduction and an overview of the field Each topic and its representing Chapter could have been a full size book in fact there are a number of such books on many of the topics covered in the handbook Our aim here was to give a current snapshot of the field identify the key principles at play and the most prominent and promising ways of its further development provide essential references for anyone to follow the subject but not necessarily go into a lot of detail on each topic

Manual of Molecular and Clinical Laboratory Immunology Barbara Detrick, John L. Schmitz, Robert G. Hamilton, 2020-07-16 THE authoritative guide for clinical laboratory immunology For over 40 years the Manual of Molecular and Clinical Laboratory Immunology has served as the premier guide for the clinical immunology laboratory From basic serology testing to the present wide range of molecular

analyses the Manual has reflected the exponential growth in the field of immunology over the past decades This eighth edition reflects the latest advances and developments in the diagnosis and treatment of patients with infectious and immune mediated disorders The Manual features detailed descriptions of general and specific methodologies placing special focus on the interpretation of laboratory findings and covers the immunology of infectious diseases including specific pathogens as well as the full range of autoimmune and immunodeficiency diseases cancer and transplantation Written to guide the laboratory director the Manual will also appeal to other laboratory scientists especially those working in clinical immunology laboratories and pathologists It is also a useful reference for physicians mid level providers medical students and allied health students with an interest in the role that immunology plays in the clinical laboratory

Medical Aspects of Biological Warfare, 2e Joel Bozue, Christopher K. Cote, Pamela J. Glass, The Borden Institute, U.S. Army Medical Department, 2018-08-01 Reflecting the critical threat posed by biological warfare and terrorism in a post 9 11 world Medical Aspects of Biological Warfare 2e addresses the weaponization of biological agents categorizing potential agents as food waterborne or agricultural agents or toxins and discusses their respective epidemiology Recent advances in biomedical knowledge are presented that include descriptions of individual agents and the illnesses induced Authors discuss biotoxins and explain methods for early identification for anthrax plague smallpox alphaviruses and staphylococcal enterotoxins Case studies and research on successful management practices treatments and antidotes are also included Contains updated and revised material since previous 2007 edition Previous Print Hardcover ISBN 9780160797316 eBook 9780160872389 Related products More published products by The Borden Institute U S Army Medical Department AMEDD are here <https://bookstore.gpo.gov/agency/army-medical-department/amedd> Arms Weapons collection is available here <https://bookstore.gpo.gov/catalog/arms-weapons> Click here to find resources about Hazardous Materials HAZMAT CBRNE Find more Physician References and Medical Handbooks here <https://bookstore.gpo.gov/catalog/physician-references-medical-handbooks>

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