



Biomechanics of active movement and division of cells

/

Akka, Nuri

Springer-Verlag,
1994

Congress

proceedings (reports)

Conference papers and proceedings.

Congresses (form)

Conference papers and proceedings.

Actes de congrès.

Monografía

The book is the result of interdisciplinary collaboration between scientists from the diverse fields of cell biology, biomechanics, biophysics, biochemistry, engineering, mathematics, and computational sciences. It provides detailed and appropriate mechanical explanations for the causes and consequences of active motion of cells, such as division, locomotion, shape change, and force generation. Also discussed is the applicability of the results in physiology, diagnosis and therapy

<https://rebiunoda.pro.baratznet.cloud:28443/OpacDiscovery/public/catalog/detail/b2FpOmNlbnGVcmF0aW9uOmVzLmJhcmF0ei5yZW4vMzY5ODA2NDg>

Título: Biomechanics of active movement and division of cells edited by Nuri Akka

Editorial: Berlin New York Springer-Verlag 1994

Descripción física: 1 online resource (xiii, 578 pages) illustrations

Tipo Audiovisual: Cells

Mención de serie: NATO ASI series. Series H, Cell biology vol. 84

Bibliografía: Includes bibliographical references and index

Contenido: Modelling of Biological Polymers: Discrete and Continuum Mechanics Formulations / A. Askar -- Cytokinesis: The Mechanism of Formation of the Contractile Ring in Animal Cell Division / A.K. Harris -- Effect of Cortex Stiffness Variation on Cleavage in Animal Cells / N. Akkas and M. Kermanian -- Multicellular Mechanics in the Creation of Anatomical Structures / A.K. Harris -- The Interplay of Active Forces and Passive Mechanical Stresses in Animal Morphogenesis / L.V. Beloussov -- The Role of Elasticity in the Motile Behaviour of Cells / J. Bereiter-Hahn and H. Luers -- On Free Boundary Problems and Amoeboid Motion / M. Dembo -- A Model of the Leukocyte Migration Through Solid Tissue / B.A. Skierczynski, S. Usami and R. Skalak -- Adhesion and Traction Forces in Migration: Insights from Mathematical Models and Experiments / P.A. Dimilla -- The Active Response of an Endothelial Cell to the Onset of Flow / G. Helmlinger, O. Thoumine, T.F. Wiesner and R.M. Nerem Mechanical Aspects of Ciliary Propulsion / M.E.J. Holwill -- Local Bending Fluctuations of the Cell Membrane / R. Korenstein, S. Tuvia, L. Mittelman and S. Levin -- Simulation of Morphogenetic Shape Changes

Using the Finite Element Method / G.W. Brodland and D.A. Clausi -- Locomoting Blebbing Cells: A New Model to Test Whether Formation of Protrusions is Primarily due to Hydrostatic Pressure or to Actin Elongation / H.U. Keller -- Dynamic Morphology of Leukocytes: Statistical Analysis and a Stochastic Model for Receptor-Mediated Cell Motion and Orientation / R.T. Tranquillo, O. Brosteanu and W. Alt -- Observation, Modeling and Simulation of Keratinocyte Movement / W. Alt and H.W. Kaiser -- Strain Transduction in Non-Excitable Cells / D.B. Jones and G. Leivseth -- Self-Organization in Biological Systems as a Result of Interaction Between Active and Passive Mechanical Stresses: Mathematical Model / A.A. Stein -- Biomechanical Events in the Production of Ciliary Movement / P. Satir Microtubule Converging Centers: Implications for Microtubule Dynamics in Higher Plants / A. S. Bajer, E.A. Smirnova, K.A. Wawrowsky, R. Wolf and J. Mole-Bajer -- Elastic Properties of Layered Membranes and Their Role in Transformations of Cellular Shapes / S. Svetina and B. Zeks -- Cortical Flow in Free-Living Amoebae / A. Grebecki -- A Mechanical Model for Growth and Control of the Cell Wall of Rod-Shaped Bacteria / J.J. Thwaites -- Measurement of Passive and Active Force in Single Isolated Smooth Muscle Cells / R. Van Mastrigt, J.J. Glerum and R. Schot -- Molecular Mechanisms of Neutrophil Adhesion Studied by Inducing a High Avidity State at β 2-Integrin / S.I. Simon -- Mechanical Tension Regulates the Phenotype of Cells Cultured in a Collagen Gel / C.A. Lambert, P.Y. Lefebvre, C. Deroanne, B.V. Nusgens and C.M. Lapiere -- The Mechanism of Actomyosin and Microtubule-Kinesin Systems / Y.Z. Ma and E.W. Taylor Immunolocalization of Acetylated Microtubules in Germ Cells of Insects / K.W. Wolf -- Mechanisms of α ₁-Adrenergic Induced Positive Inotropism in Cardiac Cells / G. Vassort, C. Vannier, V. Lakomkine, M. Puceat and O. Clement-Chomienne -- Kinetochore Directional Instability in Vertebrate Mitotic Cells / R.V. Skibbens and E.D. Salmon -- Signal Transduction and Myofibrillogenesis in Isolated Neonatal Heart Myocytes in Vitro / W. Sharp, D.G. Simpson, L. Terracio and T.K. Borg -- Quantitative EMG and Biomechanics / G.V. Dimitrov and N.A. Dimitrova -- The Anaphase Movement and Its Relationship with Cell Cleavage / M. Mota -- Mechanism of Induction of Microspore Embryogenesis in Brassica napus: Significance of the Preprophase Band of Microtubules in the First Sporophytic Division / D.H. Simmonds

Restricciones de acceso: Use copy. Restrictions unspecified star. MiAaHDL

Detalles del sistema: Master and use copy. Digital master created according to Benchmark for Faithful Digital Reproductions of Monographs and Serials, Version 1. Digital Library Federation, December 2002. <http://purl.oclc.org/DLF/benchrepro0212> MiAaHDL

Nota de acción: digitized 2010 HathiTrust Digital Library committed to preserve pda MiAaHDL

Copyright/Depósito Legal: 645890593 868058206 1193362395 1409102861

ISBN: 9783642789755 electronic bk.) 3642789757 electronic bk.) 0387579516 acid-free paper) 9780387579511 acid-free paper) 3540579516 Germany) 9783540579519 Germany) 9783642789779

Materia: Cells- Motility- Congresses Cell Movement- physiology Cell Adhesion- physiology Cellules- Motilité- Congrès 42.15 cytology, cell biology and cell physiology. Cells- Motility. Biomechanica. Cytoskelet. Citologia e biologia celular. Cellules- Motilité- Congrès. Cellules- Division- Congrès.

Autores: Akka, Nuri

Congresos: NATO Advanced Study Institute on Biomechanics of Active Movement and Division of Cells 1993 :. Istanbul, Turkey)

Enlace a formato físico adicional: Print version Biomechanics of active movement and division of cells. Berlin ; New York : Springer-Verlag, 1994 (DLC) 94015684 (OCoLC)30318516

Punto acceso adicional serie-Título: NATO ASI series. Series H Cell biology vol. 84

Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es

