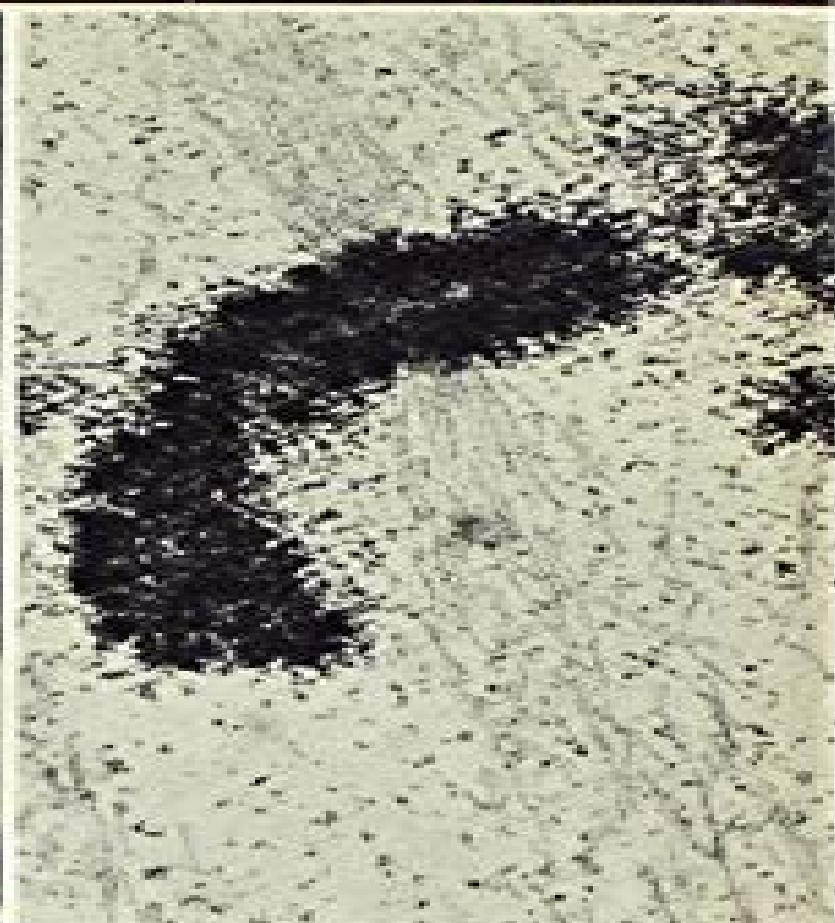


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Spindle Dynamics and Chromosome Movements

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Spindle Dynamics Chromosome Movements

Shinya Inou 

Spindle Dynamics Chromosome Movements:

Spindle Dynamics and Chromosome Movements Andrew S. Bajer, Jadwiga Molè-Bajer, 1972 **Mechanisms of Mitotic Chromosome Segregation** J. Richard McIntosh, 2018-03-23 This book is a printed edition of the Special Issue Mechanisms of Mitotic Chromosome Segregation that was published in Biology Spindle Dynamics and Chromosome Movements Andrew S. Bajer, 1972 *Biomechanics of Active Movement and Deformation of Cells* Nuri Akkas, 2013-06-29 Cytomechanics is the application of the classical principles of mechanics in cell biology It is an applied science concerned with the description and evaluation of mechanical properties of cells and their organelles as well as of the forces exerted by them Thus this topic needs a truly interdisciplinary approach and accordingly this volume gives an up to date account of the current research done on cell division mitosis cytokinesis cell locomotion and cell deformation during normal development and the cytoskeletal role in cell shape Biologists biomechanicians biophysicists biochemists and biomathematicians here discuss the basic concepts of mechanics and thermodynamics emphasizing their applicability to cell activities Analysis of Microtubule Dynamics and Chromosome Movement in Vitro Arshad Desai, 1998 **Biomechanics of Active Movement and Division of Cells** Nuri Akkas, 2013-06-29 The NATO Advanced Study Institute on Biomechanics of Active Movement and Division of Cells was held September 19 29 1993 in Istanbul and the Proceedings are presented in this volume Sixty eight scientists from sixteen countries attended Prof J Bereiter Hahn of Goethe Universitat Frankfurt Germany Prof A K Harris of the University of North Carolina Chapel Hill USA Prof R M Nerem of Georgia Institute of Technology Atlanta USA and Prof R Skalak of the University of California San Diego USA were the members of the International Organizing Committee As the Scientific Director of the Institute I wish to express my sincere appreciation for their assistance without which the Institute could not have taken place This Institute is the third one of the meetings which are now called the NATO Istanbul Meetings on Cytomechanics The first one was the NATO Advanced Research Workshop on Biomechanics of Cell Division which was held October 12 17 1986 in Istanbul The Proceedings were published as NATO ASI Series A Life Sciences Vol 132 by Plenum Press in 1987 The second one was the NATO Advanced Study Institute on Biomechanics of Active Movement and Deformation of Cells which was held September 3 13 1989 in Istanbul The Proceedings were published as NATO ASI Series H Cell Biology Vol 42 by Springer Verlag in 1990 *Collected Works of Shinya Inou* Shinya Inou, 2008 This book collects the publications of Shinya Inou pioneering cell biophysicist and winner of the 2003 International Prize for Biology The articles cover the discovery and elucidate the behavior in living cells of the dynamic molecular filaments which organize the cell and play a central role in cell division Other articles report on the development of microscopes especially those using polarized light and digital image enhancement which make possible studies of the ever changing molecular architecture directly in living cells This book also contains many high quality photo micrographs as well as an appended DVD with an extensive collection of video movies of active living cells After training in Tokyo and at Princeton University Dr Inou has held

teaching positions at the University of Washington Tokyo Metropolitan University University of Rochester Dartmouth Medical School and University of Pennsylvania He is a member of the U S National Academy of Sciences and currently holds the title of Distinguished Scientist at the Marine Biological Laboratory in Woods Hole Massachusetts

Mitosis/Cytokinesis Arthur Zimmerman, 2012-12-02 Mitosis Cytokinesis provides a comprehensive discussion of the various aspects of mitosis and cytokinesis as studied from different points of view by various authors The book summarizes work at different levels of organization including phenomenological molecular genetic and structural levels The book is divided into three sections that cover the premeiotic and premitotic events mitotic mechanisms and approaches to the study of mitosis and mechanisms of cytokinesis The authors used a uniform style in presenting the concepts by including an overview of the field a main theme and a conclusion so that a broad range of biologists could understand the concepts This volume also explores the potential developments in the study of mitosis and cytokinesis providing a background and perspective into research on mitosis and cytokinesis that will be invaluable to scientists and advanced students in cell biology The book is an excellent reference for students lecturers and research professionals in cell biology molecular biology developmental biology genetics biochemistry and physiology

Dynamics of Cell Division Sharyn A. Endow, David M. Glover, 1998-10-01 This volume focuses on the structural aspects of cell division concentrating on both nuclear division meiosis and mitosis and cytoplasmic division cytokinesis Written as a companion volume to the earlier book in the series Cell Cycle Control this book provides an up to date account of developments in this exciting area of cell biology

Digital Microscopy Greenfield Sluder, David E. Wolf, 2007-04-26 The previous edition of this book marked the shift in technology from video to digital camera use with microscope use in biological science This new edition presents some of the optical fundamentals needed to provide a quality image to the digital camera Specifically it covers the fundamental geometric optics of finite and infinity corrected microscopes develops the concepts of physical optics and Abbe's theory of image formation presents the principles of Kohler illumination and finally reviews the fundamentals of fluorescence and fluorescence microscopy The second group of chapters deals with digital and video fundamentals how digital and video cameras work how to coordinate cameras with microscopes how to deal with digital data the fundamentals of image processing and low light level cameras The third group of chapters address some specialized areas of microscopy that allow sophisticated measurements of events in living cells that are below the optical limits of resolution Expands coverage to include discussion of confocal microscopy not found in the previous edition Includes traps and pitfalls as well as laboratory exercises to help illustrate methods

Mitosis Facts and Questions M. Little, N. Paweletz, C. Petzelt, H. Ponstingl, D. Schroeter, H.-P. Administrative Editor: Zimmermann, V. Runnström-Reio, 2012-12-06 Two years ago about twenty people gathered informally in our institute to discuss mitosis We took this opportunity to try to separate the hard facts of mitosis which are accepted by most people from the soft ones which are still open for discussion Surprisingly few hard facts survived with their reputation still intact This result led us to orga

nize a similar meeting on a larger scale The outcome was the workshop Mitosis Facts and Questions which was held at the German Cancer Research Center in Heidelberg from April 25 29 1977 An introductory lecture was given for each of nine major topics followed by an extensive discussion of facts questions and future experiments Further details were provided by posters The proceedings of the meeting are published in this volume We feel that many open questions and facts described here will provide stimulating ideas and a basis for further investigation of this fundamental process The success of the workshop would not have been possible without the help of many people We are very grateful to the German Cancer Research Center for its interest and assistance and for the support of the Verein zur Forderung der Krebsforschung in Deutschland represented by Prof Dr h c K H Bauer the ECBO European Cell Biology Organization and the Deutsche Gesellschaft fur Zellbiologie Our sincere thanks are also extended to our students and technicians for their enthusiastic help and to Mrs Joa for typing the manuscripts

The Ultrastructure of the Animal Cell L. T. Threadgold, 2016-06-06 The Ultrastructure of the Animal Cell focuses on the ultrastructure of the animal cell with emphasis on cell chemistry biochemistry and physiology Discussions are organized around the interphase cell and cell division and cover topics ranging from the general structure and molecular models of cell membranes to the ultrastructure of the nucleus and the cytosome Changes in cell ultrastructure during embryogenesis differentiation and secretion are also examined This monograph is comprised of nine chapters and begins with an introduction to the principles and techniques of electron microscopy The next section is devoted to the interphase cell and first presents an overview of the animal cell before considering the ultrastructure of the nucleus and the cytosome with particular reference to the plasma membrane and associated structures the hyaloplasm endoplasmic reticulum the Golgi complex and mitochondria The changes that take place in the ultrastructure of the cell during embryogenesis differentiation and secretion are also analyzed The last section deals with cell division and the ultrastructure of the dividing cell This text will be a useful resource for cell biologists biochemists and physiologists as well as students and teachers of biology biochemistry and physiology

Aging Gametes: Their Biology and Pathology R. J. Blande, 1975-02-18

Molecular Biology Nancy Lynn Craig, 2010-08-19 Molecular Biology Principles of Genome Function offers a fresh distinctive approach to the teaching of molecular biology With its focus on key principles its emphasis on the commonalities that exist between the three kingdoms of life and its integrated approach throughout it is the perfect companion to any molecular biology course

Chromosomes Today N. Henriquez-Gil, J.S. Parker, M. Puertas, 2012-12-06 Chromosomes Today Volume 12 records the plenary proceedings of the 12th triennial International Chromosome Conference presenting an overview of the current concerns in the developing studies of animal plant and human cytogenetics As well as giving an accurate historical record of the achievements in chromosome studies this important series points the way forward emphasizing the areas in which new developments will take place Volume 12 explores the complete integration of molecular biology and cytogenetics evaluating the consensus of the world's cytogeneticists concerning the nature and activities of the

chromosome It reinforces our view of the chromosome as the genetic organelle whose structure behaviour and modification underlie our modern concept of eukaryote genetics Progress in Cell Cycle Research S. Guidet, S.V. Meijerink, H.Y.L.

Tung, 2012-12-06 Progress in Cell Cycle Research is a new annual series designed to be the source for up to date research on this rapidly expanding field Review articles by international experts examine various aspects of cell division regulation from fundamental perspectives to potential medical applications Researchers as well as advanced undergraduate and graduate students in cell biology biochemistry and molecular biology will benefit from this series *Digital Microscopy*, 2003-12-18

This updated second edition of the popular methods book Video Microscopy shows how to track dynamic changes in the structure or architecture of living cells and in reconstituted preparations using video and digital imaging microscopy Contains 10 new chapters addressing developments over the last several years Basic information principles applications and equipment are covered in the first half of the volume and more specialized video microscopy techniques are covered in the second half Shows how to track dynamic changes in the structure or architecture of living cells and in reconstituted preparations using video and digital imaging microscopy Contains 10 new chapters addressing developments over the last several years Covers basic principles applications and equipment Specialized video microscopy techniques are covered

Biomechanics of Cell Division Nuri Akkas, 2013-03-09 There are virtually hundreds of life scientists publishing hundreds of papers a year on numerous aspects of the cell cycle The following are few of the topics covered cell membrane organization membrane components cytoskeleton and associated proteins cell motility actin in dividing cells surface modulating assemblies microfilaments microtubules cleavage furrow fusion etc In all these topics life scientists talk about among others the forces within the system the motion within the system and the failure of the system The concepts of force motion and failure are one way or another all related to the structure of the cell and to the mechanics of the cell activities When the concepts of mechanics and structure enter the problem then one has to talk about biomechanics in this case biomechanics of cytology which we would like to call Cytomechanics However a review of the journals books and conference proceedings related to various aspects of cytology reveals that mechanicians have not yet entered the field of cytology at a noticeable level Some life scientists have indeed made use of the general principles of mechanics in their works however no truly interdisciplinary publication has yet appeared from the collaboration of mechanicians and life scientists in the field of for instance cell division International Review of Cytology Kwang W. Jeon, 2007-04-13 International Review of Cytology

presents current advances and comprehensive reviews in cell biology both plant and animal Authored by some of the foremost scientists in the field each volume provides up to date information and directions for future research This volume features articles on Molecular mechanism of liver development and regeneration Molecular basis of vertebrate endoderm development YidC as an essential and multifunctional component in membrane protein assembly Mitotic spindle dynamics in Drosophila and Neurogenesis in the Fish Retina **Green Fluorescent Proteins** American Society for Cell Biology, 1999

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