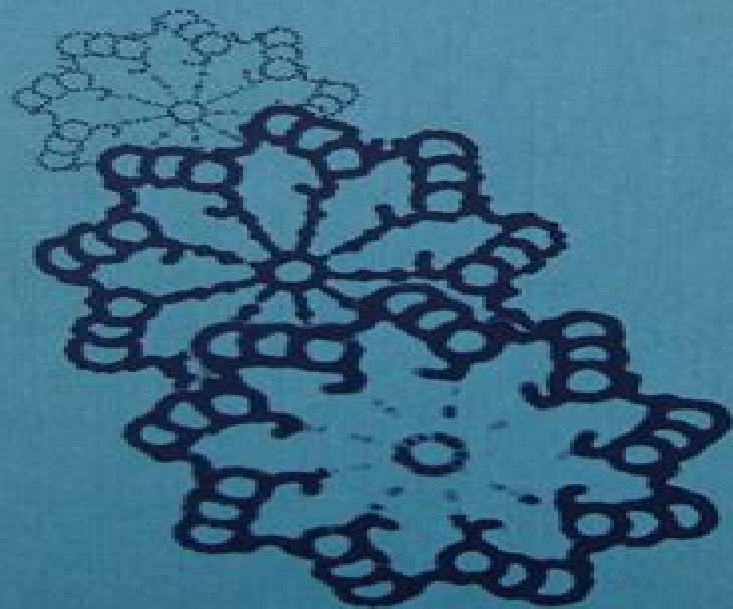


THE CENTRIOLE: A CENTRAL ENIGMA OF CELL BIOLOGY

D. N. Wheatley



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The Centriole A Central Enigma Of Cell Biology

JR Anderson



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The Centriole, a Central Enigma of Cell Biology Denys N. Wheatley, 1982 **Ghadially's Ultrastructural Pathology of the Cell and Matrix** Bart Wagner, John Stirling, Lucy Collinson, Alana Burrell, 2025-07-30 This established handbook is unique in illustrating and reviewing the cell and extracellular matrix organelle by organelle with numerous subsections with emphasis on human pathology Anyone studying normal or pathological tissues whether human animal or tissue culture by conventional transmission electron microscopy for diagnosis or research will use this book to understand what it is they are examining without having to go through large volumes of previously published articles Key Features Illustrates cell ultrastructure with electron micrographs Reviews extracellular matrix structure Assists pathologists in diagnosis of cellular pathologies Includes contributions from an international team of leading researchers *The Cell Biology of Fertilization* Heide Schatten, 2012-12-02 The Cell Biology of Fertilization provides an introduction to the various aspects of fertilization in several species including nematodes insects ascidians clams sea urchins rats hamsters cows pigs sheep and humans This text discusses the experimental approaches using methods of biophysics biochemistry enzymology immunology cell biology and molecular biology This book is comprised of three parts encompassing 15 chapters Part I explores the ability of egg factors to affect sperm motility and initiate the acrosome reaction by modifying ion movements across the sperm plasma membrane Part II considers the aspects of egg architecture ranging from extracellular remodelling to nuclei organization which is involved in embryogenesis and fertilization Part III provides an overview of gene expression oncogenes and nuclear determination during embryogenesis and at fertilization Cell biologists developmental biologists molecular biologists geneticists biophysicists biochemists reproductive biologists scientists researchers and students will find this book extremely useful **Illustrated Encyclopedia of Human Histology** R.V. Krstic, 2012-12-06 During the past three decades histology has seen enormous progress thanks to new techniques and new investigation instruments Numerous discoveries of important structures and morphofunctional phenomena have been described in a wealth of papers of ever increasing size and complexity These publications have become difficult to follow not only because of their number but also because of a disparity of terminology and the multitude of synonyms employed by different authors All of this makes reading and comprehension of the progress that has been achieved laborious even for histologists but especially for students researchers in other basic branches of medicine or clinicians who have to consult histological texts during their studies or investigations In order to facilitate the orientation of all those interested in histology a concise and practical volume in encyclopedic style defining and at the same time illustrating fundamental histological terms enumerating synonyms and describing morphofunctional phenomena has become necessary both because a work of this genre does not exist and because the list of Latin terms elaborated by the International Anatomical Nomenclature Committee in 1977 does not give illustrations or definitions of histological terms The present work attempts to redress this deficiency *Centrosomes in*

Development and Disease Erich A. Nigg, 2006-01-24 Discovered over a century ago the centrosome is the major microtubule organizing center of the animal cell. It is a tiny organelle of surprising structural complexity. Over the last few years our understanding of the structure and composition of centrosomes has greatly advanced and the demonstration of frequent centrosome anomalies in most common human tumors has sparked additional interest in the role of this organelle in a broader scientific community. The centrosome controls the number and distribution of microtubules, a major element of the cell cytoskeleton and hence influences many important cellular functions and properties. These include cell shape, polarity and motility as well as the intracellular transport and positioning of various organelles. Of particular interest, centrosome function is critical for chromosome segregation and cell division. This book is meant to summarize our current knowledge of the structure, function and evolution of microtubule organizing centers, primarily centrosomes. Emphasis is on the role of these organelles in development and disease, particularly cancer. **The Centrosome in Cell Replication and Early**

Development, 2000-09-26 Centrosomes play an integral role in the growth of cells and the ultimate development of many animals and sometimes plants. In addition to the normal growth of cells, centrosomes can also play a key role in the spread of cancer and are of increased interest to both the genetics and oncology communities. Volume 49 of *Current Topics in Developmental Biology* will present all known research surrounding the centrosome across a variety of systems. It will be well referenced and speculate where the research is headed. Discusses centrosomes and cancer, centrosomes and early development and molecular biology of the centrosome. Heavily illustrated with many color figures. Chapters written by international leaders in the field. **Methods in Nano Cell Biology**, 2008-12-11 Understanding live cells at the single molecule level is the most important and single major challenge facing biology and medicine today. Nanobiology focuses on the properties and structure of complex assemblies of biomolecules, biochips and molecular motors, for example, in conjunction with distinctive surfaces, rods, dots and materials of nanoscience. *Nano Cell Biology* will describe the current applications of nanobiology to the study of the structure, function and metabolic processes of cells. Provides historical background on this newly emerging field. Covers the latest application of new instrumentation in the field. Detailed protocols in the study of live cells at the nanometer level. Discusses future technologies and their applications in the study of living cells.

Hierarchical Genome And Differentiation Waves, The: Novel Unification Of Development, Genetics And Evolution (In 2 Volumes) Richard Gordon, 1999-07-12 Over the past few decades, numerous scientists have called for a unification of the fields of embryo development, genetics and evolution. Each field has glaring holes in its ability to explain the fundamental phenomena of life. In this book, the author shows how the phenomenon of cell differentiation, considered in its temporal and spatial aspects during embryogenesis, provides a starting point for a unified theory of multicellular organisms: plants, fungi and animals, including their evolution and genetics. This unification is based on the recent discovery of differentiation waves by the author and his colleagues, described in the appendices and illustrated by a flip movie prepared by a medical artist. To

help the reader through the many fields covered a glossary is included This book will be of great value to the researcher and practicing doctors scientists alike The research students will receive an in depth tutorial on the topics covered The seasoned researcher will appreciate the applications and the gold mine of other possibilities for novel research topics Origins of Sex Lynn Margulis,Dorion Sagan,1990-01-01 A fascinating and detailed examination of the evolution and occasional devolution of sexuality in microorganisms and more complex forms of life Margulis and Sagan trace sex from its inauspicious beginnings in bacteria threatened by ultraviolet radiation to its intimate relation with the origin of mitotic division of nucleated cells The origin of meiotic sex through cannibalism followed by centriole reproductive tardiness and the connection of cell symbiosis to sex and differentiation are explored The authors have not only given us a new and exiting scenario for the evolution of sex but have also provided us with critical ways in which we can test their hypotheses This is a stimulating book that is sure to invoke criticism and discussion I strongly recommend it Symbiosis The book is well organized and well written leading the reader from one thought to another almost effortlessly Background information is presented to aid those of us who are not experts in this field and a glossary is appended The book could be used at all levels of study from interested undergraduates in general biology though postdoctoral students of genetics and evolution I recommend this thought provoking book to you for both your enjoyment and your enlightenment Richard W Cheney Jr Journal of College Science Teaching This book undoubtedly controversial is a thoughtful and original contribution to an important aspect of cellular biology John Langridge **Pathobiology of the Human Atherosclerotic Plaque** Seymour Glagov,William P., III Newman,Sheldon A. Schaffer,2012-12-06 Seymour Glagov The last meeting devoted exclusively to an examination of the atherosclerotic plaque took place in Chicago 25 years ago under the joint auspices of the Council on Arteriosclerosis of the American Heart Association and the Chicago Heart Association The proceedings were published subsequently in a volume entitled Evolution of the Atherosclerotic Plaque edited by Richard J Jones 1 Both experimental and human lesions were considered and several provocative new approaches to the disorder were discussed The electron microscope was being applied systematically to the study of blood vessels at that time so that details of the infrastructure and cellular composition of the artery wall and of atherosclerotic lesions were presented in some detail There was as one result of these explorations considerable discussion of morphologic evidence suggesting that the principal cell involved in the atherogenic process was neither the fibroblast nor the macrophage as had been supposed but the smooth muscle cell In particular the findings indicated that this cell could incorporate lipid and become a foam cell

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