

# Subcellular Localization

## Cytoskeleton

Actin filaments: actin

Microtubules: alpha-tubulin, EB1, EB3

Intermediate filaments: vimentin, keratin

## Nucleus/Chromatin

Histones H2A and H2B

## Endoplasmic Reticulum

Sec61, Ptn1a

## Golgi

Giantin, B4GALT1

## Mitochondria

Outer Membrane: TOMM20, Mif

Inner Membrane: COX8A, ABCb10

## Secretory Pathway

Clastrin-coated vesicles: clathrin

Endosomes:

Early: Rab4, Rab5

Recycling: Rab11a, Rab4a

Late: Rab7a

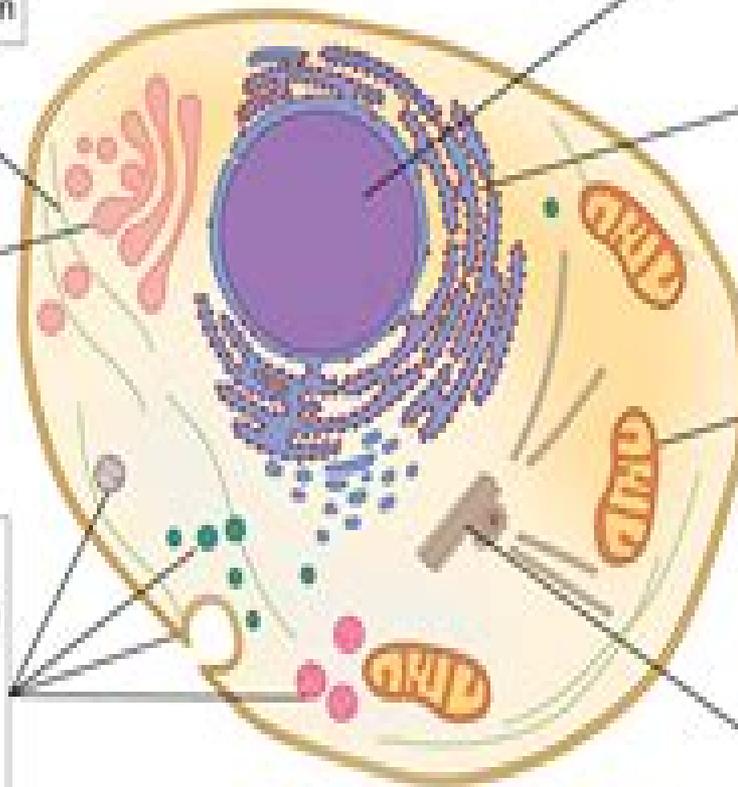
Lysosome: LAMP1

Autophagosome: LC3

## Cell Cycle Dependent Structures

Centrosome: Plk1

Centriole: Centrin-2, Cep170



# Subcellular Particles Structures And Organelles

**Thomas Spence Work, Elizabeth Work**



## **Subcellular Particles Structures And Organelles:**

**Subcellular Particles, Structures, and Organelles** Jerold A. Last, **Endocytic Components: Identification and Characterization** J.J.M. Bergeron, J. Robin Harris, 2013-11-11 In step with the rapid growth of research into the biochemical and functional characterization of the endosome Volume 19 surveys the recent advances in the methodological aspects of this field Coverage includes the use of free flow electrophoresis to define endosome subpopulations the endosomal compartments in rat hepatocytes the role of endosomes in transmembrane signalling and six additional articles *Essential Cell Biology Vol 1* John Davey, J. Mike Lord, 2003-06-05 Biological and medical research relies upon an integrated understanding of the molecules within cells and of the interactions between cells This has imposed great demands on investigators Being an expert in a relatively narrow area is no longer sufficient as many studies now require the use of a wide range of techniques to provide the necessary integration A lack of familiarity with the experimental possibilities can make such diversification difficult to achieve This two volume set of *Essential Cell Biology* is designed to help researchers overcome these problems It has not been possible to include all of the techniques available in cell biology so the challenge was to identify those that might be most relevant to researchers who are new to this topic We have tried to cover both traditional and more recent approaches The theory and basic principles of each technique are described together with detailed protocols and advice for trouble shooting Directions to more specialised techniques are also included We hope the result inspires readers to experience the challenges and rewards of cell biology research for themselves and to contribute to the ongoing task of understanding the life of the cell *Essential Cell Biology* volume 1 focuses on techniques for studying cell structure whilst volume 2 concentrates on understanding how the cell functions Volume 1 details the essential background information and protocols for observing and understanding cell morphology and cell structure including for example investigations of nucleic acids lipids and the cytoskeleton This is the essential guide to cell biology for researchers new to the field [Catalogs of the Scripps Institution of Oceanography Library](#) Scripps Institution of Oceanography. Library, 1980 **Biology of Brain Dysfunction** Gerald E. Gaull, 2012-12-06 The growth of neurochemistry molecular biology and biochemical genetics has led to a burgeoning of new information relevant to the pathogenesis of brain dysfunction This explosion of exciting new information is crying out for collation and meaningful synthesis In its totality it defies systematic summation and of course no one author can cope Thus invitations for contributions were given to various experts in areas which are under active investigation of current neurological interest and pregnant Although this project is relatively comprehensive by dint of size other topics might have been included the selection was solely my responsibility I believe systematic summation a virtual impossibility indeed hardly worth the effort The attempt to assemble all of the sections involved in a large treatise with multiple authors inevitably results in untoward delays due to the difference in the rate at which various authors work Therefore the following strategy has been adopted multiple small volumes and a relatively flexible format with publication in

order of receipt and as soon as enough chapters are assembled to make publication practical and economical In this way the time lag between the ideas and their emergence in print is the shortest

**Laboratory Techniques in Biochemistry and Molecular Biology** Thomas Spence Work, Elizabeth Work, 1969

Quantitative Human Physiology Joseph J Feher, 2017-01-02

Quantitative Human Physiology An Introduction winner of a 2018 Textbook Excellence Award Texty is the first text to meet the needs of the undergraduate bioengineering student who is being exposed to physiology for the first time but requires a more analytical quantitative approach This book explores how component behavior produces system behavior in physiological systems Through text explanation figures and equations it provides the engineering student with a basic understanding of physiological principles with an emphasis on quantitative aspects Winner of a 2018 Textbook Excellence Award College Texty from the Textbook and Academic Authors Association Features a quantitative approach that includes physical and chemical principles Provides a more integrated approach from first principles integrating anatomy molecular biology biochemistry and physiology Includes clinical applications relevant to the biomedical engineering student TENS cochlear implants blood substitutes etc Integrates labs and problem sets to provide opportunities for practice and assessment throughout the course NEW FOR THE SECOND EDITION Expansion of many sections to include relevant information Addition of many new figures and re drawing of other figures to update understanding and clarify difficult areas Substantial updating of the text to reflect newer research results Addition of several new appendices including statistics nomenclature of transport carriers and structural biology of important items such as the neuromuscular junction and calcium release unit Addition of new problems within the problem sets Addition of commentary to power point presentations

*Techniques in the Life Sciences*, 1979

**Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants, 1973

**Biology of Tumors: Surfaces, Immunology, and Comparative Pathology** Frederick Becker, 1975-12-01

As was shown in the first two volumes of this series great strides have been made in identifying many of the agents or classes of substances responsible for carcinogenesis and in delineating their interactions with the cell Clearly the aim of such studies is that once identified these agents can be eliminated from the environment Yet despite these advances and the elimination of some important carcinogenic agents one major problem exists It is a constant monitor of all oncologic study and diminishes the importance of every experiment and of every clinical observation As we noted earlier that problem is our inability to define the malignant cell It is through studies of the fundamental biology of tumors that we seek this definition A vast amount of information has been gathered which describes what this cell does and to a lesser extent how it does it But the why evades us We have been unable to define the malignant cell save in broad terms by comparing it to its normal counterpart The major problem appears to be that the malignant cell does so much It is a chimera mystifyingly composed of normal activities and structures of phenotypic schizophrenia with embryonic fetal and adult characteristics and occasionally a hint of an unclassifiable capacity unique to malignant cells

*Research Awards Index*, *Methods in Membrane Biology* Edward

Korn,1978-02 Many of the methods now in general use in membrane biology and not already discussed in satisfactory detail elsewhere have been covered in the eight previously published volumes of this series Much of this ninth volume is occupied by one authoritative chapter an unusually thorough and critical review of a relatively new and highly specialized technology that has gained rapid acceptance immunofluorescence and immunoelectron microscopy These are powerful experimental tools applicable in fields much broader than membrane research and employing methods drawn from widely diverse disciplines such as organic chemistry protein chemistry immunology and fluorescence and electron microscopy The temptation to use these superficially and deceptively simple but fundamentally complex methods uncritically is almost overwhelming The chapter by de Petris a pioneer in the field is as necessary as it is rigorous and it should long be the standard in this area of research The second chapter in this volume is a more specialized review by Matus of the procedures for the preparation and characterization of the highly differentiated junctional regions of brain plasma membranes These methods are central to the rapidly growing field of neurobiochemistry membrane biochemistry at perhaps its most intricate

**Methods in Membrane Biology** Edward D. Korn,1978 **Monographic Series** Library of Congress,1974

**Medical Book Guide** ,1974 *Glycoproteins* Alfred Gottschalk,1972 **Bowker's Medical Books in Print** ,1975

**Scanning Electron Microscopy** ,1976 Issues for 1971 1977 contain proceedings of workshops on scanning electron microscopy applications Science & Culture ,1960 *Plant Physiology* Frank B. Salisbury,Cleon W. Ross,1969 The marvel of plant function The water milieu Energy relations and diffusion Reactive surfaces Osmosis and the components of water potential Transpiration and heat transfer The ascent of sap Transport across membranes The translocation of solutes Mineral nutrition of plants Enzymes proteins and amino acids Carbohydrates and related compounds Photosynthesis Carbon dioxide fixation and photosynthesis in nature Respiration Metabolism and functions of nitrogen and sulfur Nucleic acids proteins and the genetic code Functions and metabolism of plant lipids and aromatic compounds Growth and the problems morphogenesis Mechanisms and problems of developmental control Plant hormones and growth regulators Differentiation Photomorphogenesis The biological clock Responses to low temperature and related phenomena Photoperiodism and the physiology of flowering Reproduction maturation and senescence Plant physiology in agriculture Physiological ecology

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