

Results and Problems  
in Cell Differentiation  
Volume 2

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# Origin and Continuity of Cell Organelles

Edited by  
J. Reinert and H. Ursprung



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# Origin And Continuity Of Cell Organelles

**William Duncan Patterson Stewart**

## **Origin And Continuity Of Cell Organelles:**

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Ursprung,1971    Comparative Organellography of the Cytoplasm Albert Frey-Wyssling,2012-12-06 Since the publication of my monograph Die submikroskopische Struktur des Cytoplasm as Protoplasmatologia III A12 1955 science has increased our knowledge on this cell constituent in an amazing way At that time cytoplasm was still considered as an amorphous colloid with an amicroscopic structure capable of sol gel transformations Meanwhile within the past 18 years ultrastructure research and molecular biology have shown that it consists of structured organelles thereby revolutionizing our concept of the cytoplasm There is an ontogeny of these organelles which deals with their appearance development growth and eventual disappearance Although the results of relevant studies are less spectacular at this time than those concerning nucleic acids they will become more and more important in the near future because they touch the basic question of how molecular morphogenesis is realized Therefore an attempt is made to portray the actual state of these problems from a biological point of view which involves a comparison of the established organelles I thank Miss SONIA TURLER and Dr Elsa HAUSERMANN for their help with the manuscript and my former pupils and assistants Drs Kopp KUHN SCHWARZENBACH STAHELIN STEINMANN and VOGEL as well as my colleagues Professors MATILE MooR and MUHLETHALER for original electron micro graphs

Evolution by Association Jan Sapp,1994-09-15 In this comprehensive history of symbiosis theory the first to be written Jan Sapp masterfully traces its development from modest beginnings in the late nineteenth century to its current status as one of the key conceptual frameworks for the life sciences The symbiotic perspective on evolution which argues that higher species have evolved from a merger of two or more different kinds of organisms living together is now clearly established with definitive molecular evidence demonstrating that mitochondria and chloroplasts have evolved from symbiotic bacteria In telling the exciting story of an evolutionary biology tradition that has effectively challenged many key tenets of classical neo Darwinism Sapp sheds light on the phenomena movements doctrines and controversies that have shaped attitudes about the scope and significance of symbiosis Engaging and insightful Evolution by Association will be avidly read by students and researchers across the life sciences

### **Cellular Interactions** H. F. Linskens,J.

Heslop-Harrison,2012-12-06 H F LINSKENS and J HESLOP HARRISON The chapters of this volume deal with intercellular interaction phenomena in plants Collectively they provide a broad conspectus of a highly active if greatly fragmented research field Certain limitations have been imposed on the subject matter the most important being the exclusion of long range interactions within the plant body It is true that pervasive hormonal control systems cannot readily be demarcated from controls mediated by pheromones or information carrying molecules with more limited spheres of action but consideration is given in this volume to the main classes of plant hormones and their functions only incidentally since these are treated adequately in other volumes of this Encyclopedia series V ume 9 11 and in numerous other texts and reviews Similarly certain other effects such as those associated with nutrients and ions are not considered in any detail Furthermore we have excluded intracellular interactions and also consideration of transport phenomena which are treated in detail in Vol

ume 3 of this Series Other aspects of inter cellular interaction such as cell surface phenomena and implications of lectin carbohydrate interactions and plant virus inter relationships are treated in other sections of this Encyclopedia Volumes 13B and 14B respectively In the volume on physiological plant pathology Volume 4 of this series special attention has been given to host pathogen interaction These aspects of our subject will therefore be excluded in the present treatise

### **Algal**

**Physiology and Biochemistry** William Duncan Patterson Stewart,1974      **Origin and Continuity of Cell Organelles : a Series of Topical Volumes in Developmental Biology 2** J. Reinert,Heinrich Ursprung,1971      Prevention of Embryonic, Fetal, and Perinatal Disease Robert L. Brent,John E. Fogarty International Center for Advanced Study in the Health Sciences,1976

### **The Journal of Histochemistry and Cytochemistry ,1972      Lipids and Lipid Polymers in Higher Plants**

M. Tevini,H.K. Lichtenthaler,2012-12-06 This book contains a number of papers dealing with the main topics of a Symposium on Lipids and Lipid Polymers in Higher Plants held in July 1976 at the Botanical Institute of the University of Karlsruhe The symposium was organized by Professors E Heinz H K Lichtenthaler H K Mangold and M Tevini The sponsorship by the Deutsche Forschungsgemeinschaft and the Erwin Riesch Stiftung is gratefully acknowledged The intention of the Symposium was to bring together in one place scientists working in very different fields of plant lipids such as fatty acids glycolipids phospholipids prenyllipids sterols and lipid polymers The emphasis was placed on biosynthesis distribution function and physiology of the various higher plant lipids and their role in biomembranes and epidermal cell walls By combining the major contributions in this book we hope to give all plant scientists access to the recent developments in biochemistry and physiology of plant lipid metabolism The editors are very grateful to the contributors who have taken great care to present up to date reviews Karlsruhe May 1977 M TEVINI H K LICHTENTHALER Contents Section

1 Function Organization and Lipid Composition of Biomembranes Chapter 1 Functional Organization of Biomembranes P SITTE With 15 Figures A Introduction 1 B Membrane Functions 2 I Membrane Diversity 2 II Membranes as Barriers 4 III Lipids and Permeability 5 IV Specific Transport 8 V Membrane Flow and Membrane Families 9 VI General Principles of Cellular Compartmentation 10 C Membrane Biogenesis

### **Transport in Plants III** C.R. Stocking,U. Heber,2012-12-06

The problems associated with the movement of water and solutes throughout the plant body have intrigued students of plants since Malpighi s conclusions in 1675 and 1679 that nutrient sap flows upward and downward in stems through vessels in both wood and bark Steven Hale s ingenious experiments on the movement of water in plants in 1726 and Hartig s observations of sieve tube exudation in the mid 19th century set the stage for continued intensive studies on long range transport in plants In spite of this interest for more than 200 years in the movement of solutes and water in plants it has only been within the last 20 to 30 years that extensive research effort has been directed toward a critical evaluation of the interactions among the various cellular organelles The important roles played by the exchange of metabolites in the control and regulation of cellular processes is now widely recognized but in most instances poorly understood

### **The Journal of**

**Cell Biology** ,1984 No 2 pt 2 of November issue each year from v 19 47 1963 70 and v 55 1972 contain the Abstracts of papers presented at the annual meeting of the American Society for Cell Biology 3d 10th 1963 70 and 12th 1972    **The Synthesis, Assembly, and Turnover of Cell Surface Components** George Poste, Garth L. Nicolson, 1977 Research on membranes and cell surfaces today occupies center stage in many areas of biology and medicine This dominant position reflects the growing awareness that many important biological processes in animal and plant cells and in microorganisms are mediated by these structures    CRC Critical Reviews in Biochemistry Chemical Rubber Company, 1972    **Prevention of embryonic, fetal, and perinatal disease** ,1976    *Cell and Muscle Motility* ,1981    *Invertebrate Oogenesis* ,1972

Journal of Cell Science ,1999

Reviewing **Origin And Continuity Of Cell Organelles**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing.

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