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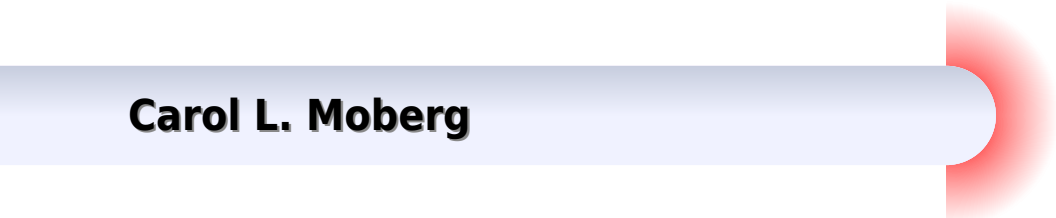
MODERN CELL BIOLOGY

Volume 4

Alan R. Liss, Inc., New York

Modern Cell Biology

Carol L. Moberg



Modern Cell Biology:

Discovering Cell Mechanisms William Bechtel, 2006 Between 1940 and 1970 pioneers in the new field of cell biology discovered the operative parts of cells and their contributions to cell life They offered mechanistic accounts that explained cellular phenomena by identifying the relevant parts of cells the biochemical operations they performed and the way in which these parts and operations were organised to accomplish important functions Cell biology was a revolutionary science but in this book it also provides fuel for yet another revolution one that focuses on the very conception of science itself Laws have traditionally been regarded as the primary vehicle of explanation but in the emerging philosophy of science it is mechanisms that do the explanatory work Bechtel emphasises how mechanisms were discovered focusing especially on the way in which new instruments made these inquiries possible He also describes how new journals and societies provided institutional structure to this new enterprise , **Modern Cell Biology** , **Modern Cell Biology: Modern cell biology** ,1983

Modern Cell Biology Birgit H. Satir, 1983 **Modern Cell Biology** Birgit H. Satir, 1988-01 *Modern Cell Biology* William David McElroy, Carl P. Swanson, 1976 Modern cell biology William David McElroy, Carl Pontius SWANSON, 1968

Modern Cell Biology: Noninvasive techniques in cell biology ,1983 *Modern Cell Biology* J. Richard McIntosh, 1985-04 Modern cell biology. Volume 2 Birgit H. Satir, 1983 *Modern Cell Biology* ,1983 *Modern Cell Biology* Birgit H. Satir, 1985-12 *Visions of Cell Biology* Karl S. Matlin, Jane Maienschein, Manfred D. Laubichler, 2018-01-19 Although modern cell biology is often considered to have arisen following World War II in tandem with certain technological and methodological advances in particular the electron microscope and cell fractionation its origins actually date to the 1830s and the development of cytology the scientific study of cells By 1924 with the publication of Edmund Vincent Cowdry's *General Cytology* the discipline had stretched beyond the bounds of purely microscopic observation to include the chemical physical and genetic analysis of cells Inspired by Cowdry's classic watershed work this book collects contributions from cell biologists historians and philosophers of science to explore the history and current status of cell biology Despite extraordinary advances in describing both the structure and function of cells cell biology tends to be overshadowed by molecular biology a field that developed contemporaneously This book remedies that unjust disparity through an investigation of cell biology's evolution and its role in pushing forward the boundaries of biological understanding Contributors show that modern concepts of cell organization mechanistic explanations epigenetics molecular thinking and even computational approaches all can be placed on the continuum of cell studies from cytology to cell biology and beyond The first book in the series *Convening Science Discovery at the Marine Biological Laboratory Visions of Cell Biology* sheds new light on a century of cellular discovery **Modern Cell Biology: Molecular mechanisms in the regulation of cell behavior** ,1983 Entering an Unseen World Carol L. Moberg, 2012 *Entering an Unseen World* is an in depth story about how a singular laboratory contributed to creating a new science modern cell biology The story begins in 1910 in a laboratory

devoted to studying cancer at The Rockefeller Institute for Medical Research and culminates in 1974 when the Nobel Prize was awarded to three pioneering scientists Chapters devoted to the early years offer a compelling narrative about this laboratory while focusing on five aspects of how this science unfolded through time the hundreds of scientists involved a nurturing environment the experimental procedures developed the instruments devised and mastered and the discoveries made in a previously unseen world First person chapters by more than 20 scientists associated with this laboratory follow They describe their roles exploring the intricate and fascinating world inside living cells Their stories show what it takes to create a science while revealing in detail what we now take for granted the cell is the basic structural and functional unit of all known living organisms Nearly 150 classic illustrations and photographs document the evolution of their discoveries Entering an Unseen World conveys the excitement of process and progress as this science came to life

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