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henry harris here provides an account of how scientists came to understand that the bodies of all living things are composed of microscopic units that we now call cells harris turns to the primary literature the original texts scientific papers and correspondence of medical researchers involved in the formulation of the cell doctrine to reconstruct the events that enabled researchers to comprehend the nature and purpose of cells translating many of these documents into english for the first time harris uncovers a version of events quite different from that described in conventional science textbooks focusing on the scientific history of the genesis of the cell doctrine the author also considers contemporary social and political contexts and shows how these influenced what experiments were undertaken and how the results were represented

this volume examines the origin of eukaryotic cells both phylogenetically and morphogenetically the evolutionary relationship between prokaryotic and eukaryotic organizations is emphasized the difference of inferences from ribosomal rna and protein phylogenetic trees suggests a new possibility of synthesizing an evolutionary origin of eukaryotic cells as integrating morphogenetic contributions

the cell is the basic building block of life in its 3.5 billion years on the planet it has proven to be a powerhouse spreading life first throughout the seas then across land developing the rich and complex diversity of life that populates the planet today with the cell a visual tour of the building block of life jack challoner treats readers to a visually stunning tour of these remarkable molecular machines most of the living things we're familiar with the plants in our gardens the animals we eat are composed of billions or trillions of cells most multicellular organisms consist of many different types of cells each highly specialized to play a particular role from building bones or producing the pigment in flower petals to fighting disease or sensing environmental cues but the great majority of living things on our planet exist as single cell these cellular singletons are every bit as successful and diverse as multicellular organisms and our very existence relies on them the book is an authoritative yet accessible account of what goes on inside every living cell from building proteins and producing energy to making identical copies of themselves and the importance of these chemical reactions both on the familiar everyday

scale and on the global scale along the way challoner sheds light on many of the most intriguing questions guiding current scientific research what special properties make stem cells so promising in the treatment of injury and disease how and when did single celled organisms first come together to form multicellular ones and how might scientists soon be prepared to build on the basic principles of cell biology to build similar living cells from scratch

in the late 1600s a distinguished english polymath robert hooke and an eccentric dutch cloth merchant antonie van leeuwenhoek look down their hand made microscopes what they see introduces a radical concept that alters both biology and medicine forever it is the fact that complex living organisms are assemblages of tiny self contained self regulating units our organs our physiology our selves are built from these compartments hooke christens them cells the discovery of cells announced the birth of a new kind of medicine a hip fracture a cardiac arrest alzheimer s aids lung cancer all could be re conceived as the results of cells or a cellular ecosystem functioning abnormally and all could be treated by therapeutic manipulations of cells this revolution in cell biology is still in progress it represents one of the most significant advances in science and medicine bokinfo

this book is a comprehensive multi authored work on the structure and function of the mammalian testis the approach emphasizes gene expression translation and production of specific gene products and the cellular and molecular regulation of these fundamental processes rather than provide a global survey of all aspects of male reproduction this book stresses specific mechanisms that underscore the structure and function of the testis it explains old and new concepts from a cellular and molecular perspective this novel approach allows the authors to forge links between cell and molecular biology and well established aspects of spermatogenesis and steroidogenesis the result is a well focused comprehensive and synthetic analysis of testicular biology

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what is life fifty years after physicist erwin schrodinger posed this question in his celebrated and inspiring book the answer remains elusive in the way of the cell one of the world s most respected microbiologists draws on his wide knowledge of contemporary science to provide fresh insight into this intriguing and all important question what is the relationship of living things to the inanimate realm of chemistry and physics how do lifeless but special chemicals come together to form those intricate dynamic ensembles that we recognize as life to shed light on these questions franklin harold focuses here on microorganisms in particular the supremely well researched bacterium e coli because the cell is the simplest level of organization that manifests all the features of the phenomenon of life harold shows that as simple as they appear when compared to ourselves every cell displays a dynamic pattern in space and time orders of magnitude richer than its

elements it integrates the writhings and couplings of billions of molecules into a coherent whole draws matter and energy into itself constructs and reproduces its own order and persists in this manner for numberless generations while continuously adapting to a changing world a cell constitutes a unitary whole a unit of life and in this volume one of the leading authorities on the cell gives us a vivid picture of what goes on within this minute precinct the result is a richly detailed meticulously crafted account of what modern science can tell us about life as well as one scientist s personal attempt to wring understanding from the tide of knowledge

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