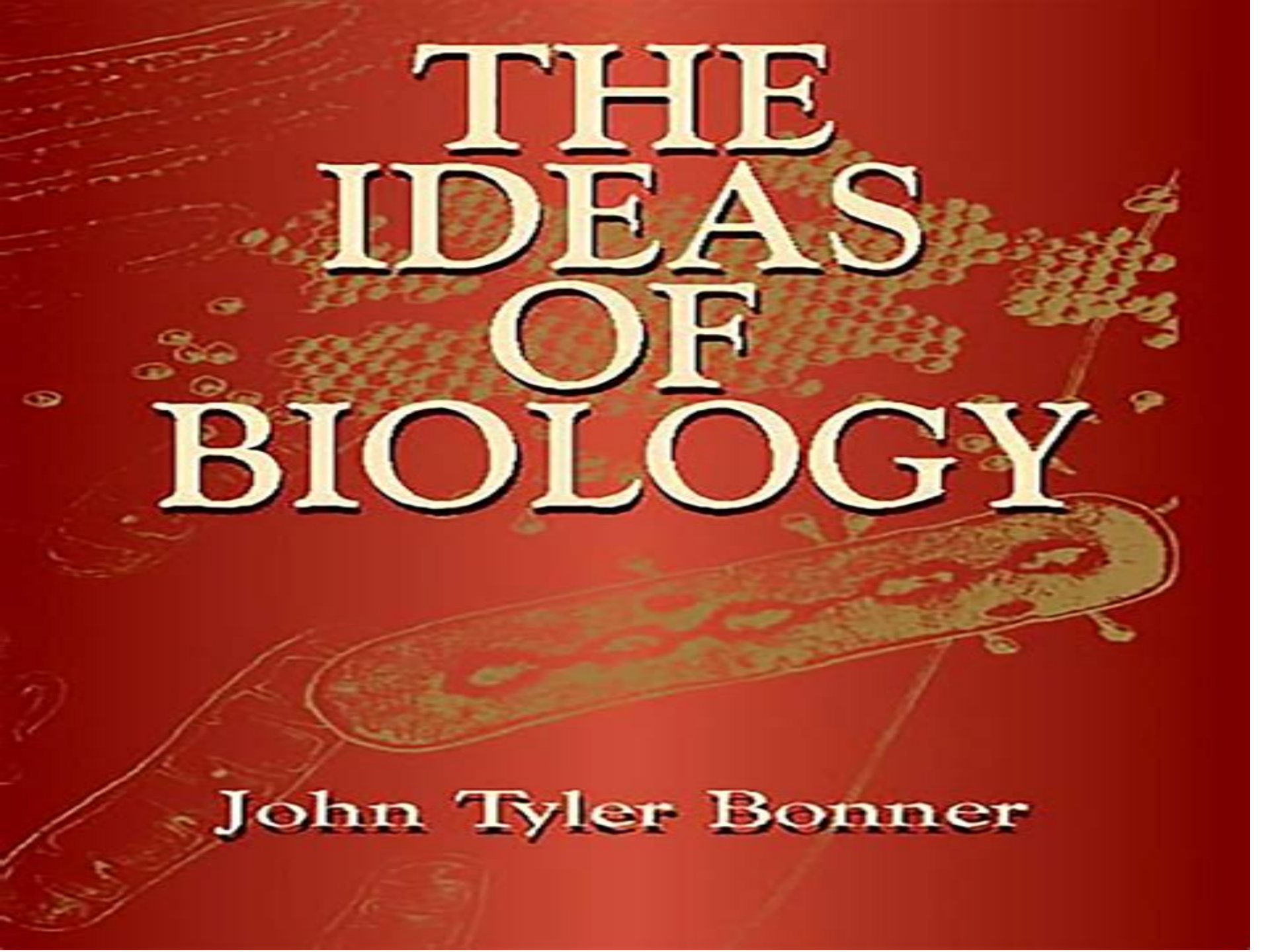


The background is a deep red color with faint, golden-yellow illustrations of biological structures. These include a large, elongated, oval-shaped cell with internal details, a smaller, more complex cell with a nucleus-like structure, and a branching, tree-like structure resembling a microorganism or a plant root system. The text is overlaid on this background.

THE IDEAS OF BIOLOGY

John Tyler Bonner

The Ideas Of Biology John Tyler Bonner

John Tyler Bonner



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The Ideas of Biology John Tyler Bonner, 2012-09-26 The great achievement of this book observed the distinguished science writer Gerald Wendt is that it presents the basic concepts of biology in concise lucid orderly form and thus gradually and understandably transforms the miracle of life into a succession of miraculously simple processes John Tyler Bonner's series of concise essays explores the foundations of modern biology the cell genetics development and evolution Biologists are fortunate in having such a scientist and author interpret these facts for Dr Bonner's style of writing contributes greatly to the success of the work noted Library Journal adding The drawings which accompany the text are excellent Since evolution provides the framework for life the author makes it his central theme with introductory material on the living machine itself and succeeding chapters on heredity embryonic development and ultimately relations between organisms and their environment Written as a supplement to classroom biology texts this volume can be read independently **On**

Development John Tyler Bonner, 1974 On Development is as John Tyler Bonner says a book on ideas the ideas at stake in the contest to unravel the mechanisms of life This fluent discussion of developmental biology synthesizes decades of intensive progress in specialized areas of the science from the dramatic deciphering of the genetic code to detailed analyses of animal behavior patterns Placing these discoveries in an evolutionary context Bonner explores the continuities and the transitoriness of individual lives and individual forms He begins by discussing the ubiquity among organisms of developmental cycles and their universal properties including senescence and death He argues that the life cycle itself is an object of natural selection and shows how in any species it reflects the evolutionary tradeoff between energy requirements of the individual and reproductive efficiency of the species Although nucleic acids are thought to be the ultimate and fundamental source of genetic regulation Bonner points out that a massive amount of information required for normal development is not directly controlled by nuclear DNA during the life cycle Each life cycle is governed by some immediate instructions from the genes and by many gene initiated instructions that were given in previous life cycles and have accumulated in various parts of the fertilized egg All of these instructions taken together govern the development of a new organism Acknowledging the great value of reductionist theories in biology Bonner constructs his synthetic view of development without resorting to vitalist concepts or to hand waving explanations He draws examples and evidence from more than half a century of biological research from sources as diverse as Spemann and Spiegelman Certain organisms such as the cellular slime molds upon which Bonner himself has conducted a number of original experiments and the social insects provide crucial examples of dramatic evolutionary increments in biological complexity and offer insight into the control mechanisms that make such advances possible Why Size Matters John Tyler Bonner, 2011-12-05 Why size plays such a big role in the living world John Tyler Bonner one of our most distinguished and creative biologists here offers a completely new perspective on the role of size in biology In his hallmark friendly style he explores the universal impact of being the right size By examining stories

ranging from Alice in Wonderland to Gulliver's Travels he shows that humans have always been fascinated by things big and small Why then does size always reside on the fringes of science and never on the center stage Why do biologists and others ponder size only when studying something else running speed life span or metabolism Why Size Matters a pioneering book of big ideas in a compact size gives size its due by presenting a profound yet lucid overview of what we know about its role in the living world Bonner argues that size really does matter that it is the supreme and universal determinant of what any organism can be and do For example because tiny creatures are subject primarily to forces of cohesion and larger beasts to gravity a fly can easily walk up a wall something we humans cannot even begin to imagine doing Bonner introduces us to size through the giants and dwarfs of human animal and plant history and then explores questions including the physics of size as it affects biology the evolution of size over geological time and the role of size in the function and longevity of living things As this elegantly written book shows size affects life in its every aspect It is a universal frame from which nothing escapes

Keywords And Concepts In Evolutionary Developmental Biology Manorma Singh, 2007 Contents Sting Journalism Introduction Forms and Features Sting Journalism Ethics Methods and Hidden Cameras Sting Operations Current Perspective Famous Investigative Journalists and Scandals Sting Operations in Indian Perspectives *The Ideas of Biology* John Tyler Bonner, 2002-01-01 The great achievement of this book observed the distinguished science writer Gerald Wendt is that it presents the basic concepts of biology in concise lucid orderly form and thus gradually and understandably transforms the miracle of life into a succession of miraculously simple processes John Tyler Bonner's series of concise essays explores the foundations of modern biology the cell genetics development and evolution Biologists are fortunate in having such a scientist and author interpret these facts for Dr Bonner's style of writing contributes greatly to the success of the work noted Library Journal adding The drawings which accompany the text are excellent Since evolution provides the framework for life the author makes it his central theme with introductory material on the living machine itself and succeeding chapters on heredity embryonic development and ultimately relations between organisms and their environment Written as a supplement to classroom biology texts this volume can be read independently *Keywords and Concepts in Evolutionary Developmental Biology* Brian K. Hall, Wendy M. Olson, 2006-09 Covering more than 50 central terms and concepts in entries written by leading experts this book offers an overview of this new subdiscipline of biology providing the core insights and ideas that show how embryonic development relates to life history evolution adaptation and responses to and integration with environmental factors *Sixty Years of Biology* John Tyler Bonner, 2017-03-14 John Tyler Bonner a major participant in the development of biology as an experimental science is the author not only of important monographs but also of a wonderfully readable book Life Cycles which is both a personal memoir and a profound commentary on the central themes of biology This volume of essays presents new material that extends the concepts from Life Cycles and his other writings Its originality lies in comparing key basic biological processes at different levels from molecular interactions through multicellular development

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John Tyler Bonner,2013-03-24 John Tyler Bonner here challenges a central tenet of evolutionary biology *Man's Place in Nature* Thomas H. Huxley,2013-02-04 Known as Darwin s Bulldog for his impassioned defense of evolutionary theory Thomas Huxley published this his most famous book just a few years after Darwin s *The Origin of the Species* Unlike *Origin* this book focuses on human ancestry and offers a concise nontechnical survey of the state of mid nineteenth century knowledge about primate and human paleontology and ethology *Man s Place in Nature* concurs with Darwin s assertion of the absence of a physiologic and psychic structural line of demarcation between humans and apes Huxley ventures further than Darwin however by making the first attempt to apply the principles of evolution directly to the human race an issue that Darwin skirted Despite Huxley s acknowledgements of the wide gulf represented by the human capacity for rational speech and language some Victorian readers were scandalized by the application of Darwinian theory to humans and by Huxley s evidence of the fundamental similarities between the human brain and the ape brain A landmark of scientific progress this immensely readable book reflects the stylistic gifts that made its author a popular public speaker

The Philosophy of Biology Kostas Kampourakis,2013-06-18 This book brings together for the first time philosophers of biology to write about some of the most central concepts and issues in their field from the perspective of biology education The chapters of the book cover a variety of topics ranging from traditional ones such as biological explanation biology and religion or biology and ethics to contemporary ones such as genomics systems biology or evolutionary developmental biology Each of the 30 chapters covers the respective philosophical literature in detail and makes specific suggestions for biology education The aim of this book is to inform biology educators undergraduate and graduate students in biology and related fields students in teacher training programs and curriculum developers about the current state of discussion on the major topics in the philosophy of biology and its implications for teaching biology In addition the book can be valuable to philosophers of biology as an introductory text in undergraduate and graduate courses

On Growth and Form D'Arcy Wentworth

Thompson,1992-06-23 Classic of modern biology sets forth seminal theory of transformation that evolution takes place in large scale transformations of body as a whole Over 500 photographs and drawings **Encyclopedia of Evolutionary Biology** ,2016-04-14 Encyclopedia of Evolutionary Biology Four Volume Set is the definitive go to reference in the field of evolutionary biology It provides a fully comprehensive review of the field in an easy to search structure Under the collective leadership of fifteen distinguished section editors it is comprised of articles written by leading experts in the field providing a full review of the current status of each topic The articles are up to date and fully illustrated with in text references that allow readers to easily access primary literature While all entries are authoritative and valuable to those with advanced understanding of evolutionary biology they are also intended to be accessible to both advanced undergraduate and graduate students Broad topics include the history of evolutionary biology population genetics quantitative genetics speciation life history evolution evolution of sex and mating systems evolutionary biogeography evolutionary developmental biology molecular and genome evolution coevolution phylogenetic methods microbial evolution diversification of plants and fungi diversification of animals and applied evolution Presents fully comprehensive content allowing easy access to fundamental information and links to primary research Contains concise articles by leading experts in the field that ensures current coverage of each topic Provides ancillary learning tools like tables illustrations and multimedia features to assist with the comprehension process Life Science Library ,1965 **Lives of a Biologist** John Tyler. BONNER,John Tyler Bonner,2009-06-30 Beginning with the discovery of genes on chromosomes and culminating with the unmasking of the most minute genetic mysteries the twentieth century saw astounding and unprecedented progress in the science of biology In an illustrious career that spanned most of the century biologist John Bonner witnessed many of these advances firsthand Part autobiography part history of the extraordinary transformation of biology in his time Bonner s book is truly a life in science the story of what it is to be a biologist observing the unfolding of the intricacies of life itself Bonner s scientific interests are nearly as varied as the concerns of biology ranging from animal culture to evolution from life cycles to the development of slime molds And the extraordinary cast of characters he introduces is equally diverse among them Julian Huxley J B S Haldane Leon Trotsky and Evelyn Waugh Writing with a charm and freshness that bring the most subtle nuances of science to life he pursues these interests through the hundred years that gave us the discovery of embryonic induction the interpretation of evolution in terms of changes in gene frequency in a population growth in understanding of the biochemistry of the cell the beginning of molecular genetics remarkable insights into animal behavior the emergence of sociobiology and the simplification of ecological and evolutionary principles by means of mathematical models In this panoramic view we see both the sweep of world events and scientific progress and the animating details the personal observations and experiences of a career conducted in their midst In Bonner s view biology is essentially the study of life cycles His book marking the cycles of a life in biology is a fitting reflection of this study with its infinite and infinitesimal

permutations Table of Contents Preface 1 The World of My Elders 1900 1920 2 Becoming a Biologist 1920 1940 3 Everything Peaks 1940 1960 4 Revolution and Progress 1960 1980 5 Coming Together 1980 2000 Index Reviews of this book A charming memoir combining autobiography and a 20th century history of biology A gentleman and a scholar aptly describes Bonner Bonner s own lifecycle makes for pleasant reading and inspires a new respect for slime molds Kirkus Reviews Reviews of this book Bonner has devoted much of his imaginative and creative biological research of the intervening years to cellular slime molds which lead fascinating and before Bonner s work previously largely unexplained lives His accounts of his and his graduate students thinking and experiments convey much of the scientific approach to problems lucidly and those of his travels his vacations in Nova Scotia over the course of 40 years and the many amusing and illuminating incidents in his life reflect a refreshing open mindedness This is one scientist s autobiography that manages to be simultaneously delightful and strikingly informative William Beatty Booklist Reviews of this book This charming and unduly modest book is part memoir part distillation of 20th century biology as told by an eminent researcher writer and teacher who witnessed much of it firsthand Bonner invokes life cycles and development his specialties to talk about the last century s gigantic steps forward in biology He covers advances in biochemistry population genetics and embryology the discovery of DNA structure and the human genome project Against this parade of discoveries Bonner considers his own career which included everything from animal social behavior to evolution Publishers Weekly Reviews of this book John Tyler Bonner had the luck to be born into a family that lived a charmed life the fortune to find a lifelong passion and the timing to live at the heyday of his favorite subject In his autobiography The Lives of a Biologist Adventures in a Century of Extraordinary Science Bonner smoothly integrates advances in biology during the 20th century with tales from a life that now stretches into its ninth decade In simple but elegant prose he revisits some of the most important biological advances from embryology to molecular genetics Sally Squires Washington Post Reviews of this book Here is a man of prodigious scientific talent who emerges in Lives of a Biologist as the best kind of scientist a man fascinated by the things he is investigating and finding great joy in them This is a life well and fulfilling lived told with warmth and humor John R G Turner New York Times Book Review Reviews of this book This memoir by the great celebrant of slime moulds offers a fascinating overview of a century of biology Bonner tells of changes in biological thinking and his own pervasive influence in the study of life cycles and morphogenesis New Scientist Reviews of this book A gracefully written memoir Bonner who began his career as an embryologist provides many insights regarding the changing fashions he and others have observed in the field of developmental biology K B Sterling Choice A gracious and immensely enjoyable memoir from an era in which scientists could still be gentlemen Bonner s generosity of spirit shines through on almost every page Evelyn Fox Keller MIT Imagine a wonderful writer who just keeps writing book after book and just keeps getting more and more readable with each one That s John Bonner Now he s done a memoir full of magic names from the past where his kind humor softens a keen eye for human antics including his own If you like biology

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Bulletin - The Cleveland Museum of Natural History, 1961 **The Evolution of Complexity by Means of Natural Selection** John Tyler Bonner, 2020-12-08 John Tyler Bonner makes a new attack on an old problem the question of how progressive increase in the size and complexity of animals and plants has occurred How is it he inquires that an egg turns into an elaborate adult How is it that a bacterium given many millions of years could have evolved into an elephant The author argues that we can understand this progression in terms of natural selection but that in order to do so we must consider the role of development or more precisely the role of life cycles in evolutionary change In a lively writing style that will be familiar to readers of his work The Evolution of Culture in Animals Princeton 1980 Bonner addresses a general audience interested in biology as well as specialists in all areas of evolutionary biology What is novel in the approach used here is the comparison of complexity inside the organism especially cell differentiation with the complexity outside that is within an ecological community Matters of size at both these levels are closely related to complexity The book shows how an understanding of the grand course of evolution can come from combining our knowledge of genetics development ecology and even behavior

Princeton Alumni Weekly, 1953 **The Explorer**, 1961 Life Cycles John Tyler Bonner, 2015-03-08 Within a single captivating narrative John Bonner combines an intensely personal memoir of scientific progress and an overview of what we now know about living things Bonner a major

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