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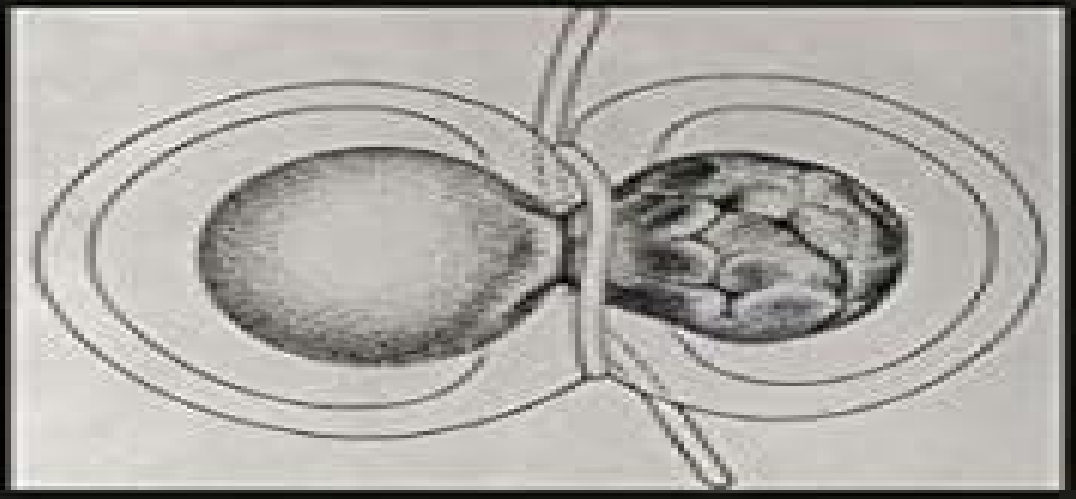

Volume 7

A Conceptual History of Modern Embryology

Edited by SCOTT F. GILBERT

Conceptual History Of Modern Embryology Vol 7

Peter Vickers

Conceptual History Of Modern Embryology Vol 7:

A Conceptual History of Modern Embryology Scott F. Gilbert,2012-04-24 Glory to the science of embryology So Johannes Holtfreter closed his letter to this editor when he granted permission to publish his article in this volume And glory there is glory in the phenomenon of animals developing their complex morphologies from fertilized eggs and glory in the efforts of a relatively small group of scientists to understand these wonderful events Embryology is unique among the biological disciplines for it denies the hegemony of the adult and sees value indeed more value in the stages that lead up to the fully developed organism It seeks the origin and not merely the maintenance of the body And if embryology is the study of the embryo as seen over time the history of embryology is a second order derivative seeing how the study of embryos changes over time As Jane Oppenheimer pointed out Sci ence like life itself indeed like history itself is a historical phenomenon It can build itself only out of its past Thus there are several ways in which embryology and the history of embryology are similar Each takes a current stage of a developing entity and seeks to explain the paths that brought it to its present condition Indeed embryology used to be called Entwicklungsgeschichte the developmental history of the organism Both embryology and its history interpret the interplay between internal factors and external agents in the causation of new processes and events *A Conceptual History of Modern Embryology* Scott F. Gilbert,2013-11-11 Glory to the science of embryology So Johannes Holtfreter closed his letter to this editor when he granted permission to publish his article in this volume And glory there is glory in the phenomenon of animals developing their complex morphologies from fertilized eggs and glory in the efforts of a relatively small group of scientists to understand these wonderful events Embryology is unique among the biological disciplines for it denies the hegemony of the adult and sees value indeed more value in the stages that lead up to the fully developed organism It seeks the origin and not merely the maintenance of the body And if embryology is the study of the embryo as seen over time the history of embryology is a second order derivative seeing how the study of embryos changes over time As Jane Oppenheimer pointed out Sci ence like life itself indeed like history itself is a historical phenomenon It can build itself only out of its past Thus there are several ways in which embryology and the history of embryology are similar Each takes a current stage of a developing entity and seeks to explain the paths that brought it to its present condition Indeed embryology used to be called Entwicklungsgeschichte the developmental history of the organism Both embryology and its history interpret the interplay between internal factors and external agents in the causation of new processes and events *A Conceptual History of Modern Embryology* Scott F. Gilbert,1994 Brings together 13 prominent embryologists and historians to write an account of the history of embryology and to explore the concepts that underlie modern embryology The concept of induction from Pander and von Baer to Ephrussi and Waddington is the book s predominant theme **Becoming Immortal** Stanley Shostak,2012-02-01 Providing the philosophical practical and theoretical leverage for abandoning evolution and development in favor of engineering human beings Becoming Immortal

examines the directions biological change might take if civilization were to take charge of its own destiny With the aid of embryonic manipulation cloning and stem cell therapy immortality would seem within the reach of future generations The question is Do we presently have the wisdom to undertake creating immortal organisms The author examines every facet of this question from theory to practice and provides an answer through an in depth analysis of life and death *The Development of Biological Systematics* Peter F. Stevens,1994-12-01 A reevaluation of the history of biological systematics that discusses the formative years of the so called natural system of classification in the eighteenth and nineteenth centuries Shows how classifications came to be treated as conventions systematic practice was not linked to clearly articulated theory there was general confusion over the shape of nature botany elements of natural history and systematics were conflated and systematics took a position near the bottom of the hierarchy of sciences **A History of Biology** Michel Morange,2023-08-15 This book presents a complete global history of the biological sciences from ancient times to today introducing a long term perspective to the history of biological thought while showing its fractures and upheavals through the ages The history of biology often neglects certain areas such as ecology ethology the study of non human animal behavior and plant biology areas which are covered in this work The broad global perspective offered here will allow the reader to better appreciate the nature of the interdisciplinary exchanges that have shaped the biological sciences perhaps more than any other discipline Much attention is also given to the contribution of technology the role of experimentation and more generally the social and technological environment within which scientific transformations develop *A History of Molecular Biology* Michel Morange,2000 Every day it seems the media focus on yet another new development in biology gene therapy the human genome project the creation of new varieties of animals and plants through genetic engineering These possibilities have all emanated from molecular biology A History of Molecular Biology is a complete but compact account for a general readership of the history of this revolution Michel Morange himself a molecular biologist takes us from the turn of the century convergence of molecular biology s two progenitors genetics and biochemistry to the perfection of gene splicing and cloning techniques in the 1980s Drawing on the important work of American English and French historians of science Morange describes the major discoveries the double helix messenger RNA oncogenes DNA polymerase but also explains how and why these breakthroughs took place The book is enlivened by mini biographies of the founders of molecular biology Delbr ck Watson and Crick Monod and Jacob Nirenberg This ambitious history covers the story of the transformation of biology over the last one hundred years the transformation of disciplines biochemistry genetics embryology and evolutionary biology and finally the emergence of the biotechnology industry An important contribution to the history of science A History of Molecular Biology will also be valued by general readers for its clear explanations of the theory and practice of molecular biology today Molecular biologists themselves will find Morange s historical perspective critical to an understanding of what is at stake in current biological research **Icons of Life** Lynn Morgan,2009-09-09 Icons of Life tells the engrossing and

provocative story of an early twentieth century undertaking the Carnegie Institution of Washington s project to collect thousands of embryos for scientific study Lynn M Morgan blends social analysis sleuthing and humor to trace the history of specimen collecting In the process she illuminates how a hundred year old scientific endeavor continues to be felt in today s fraught arena of maternal and fetal politics Until the embryo collecting project which she follows from the Johns Hopkins anatomy department through Baltimore foundling homes and all the way to China most people had no idea what human embryos looked like But by the 1950s modern citizens saw in embryos an image of ourselves unborn and embryology had developed a biologically based story about how we came to be Morgan explains how dead specimens paradoxically became icons of life how embryos were generated as social artifacts separate from pregnant women and how a fetus thwarted Gertrude Stein s medical career By resurrecting a nearly forgotten scientific project Morgan sheds light on the roots of a modern origin story and raises the still controversial issue of how we decide what embryos mean *Identifying Future-Proof Science* Peter Vickers,2022-10-31 Is science getting at the truth The sceptics those who spread doubt about science often employ a simple argument scientists were sure in the past and then they ended up being wrong Through a combination of historical investigation and philosophical sociological analysis Identifying Future Proof Science defends science against this potentially dangerous scepticism Indeed we can confidently identify many scientific claims that are future proof they will last forever so long as science continues How do we identify future proof claims This appears to be a new question for science scholars and not an unimportant one Peter Vickers argues that the best way to identify future proof science is to avoid any attempt to analyse the relevant first order scientific evidence instead focusing purely on second order evidence Specifically a scientific claim is future proof when the relevant scientific community is large international and diverse and at least 95% of that community would describe the claim as a scientific fact In the entire history of science no claim meeting these criteria has ever been overturned despite enormous opportunity Death of Life Stanley Shostak,2016-07-27 The Death of Life dissects biology s claim to be the Cinderella science that rose above its station Early attempts to study life through observation experiment and theory are exposed as the skeleton of ideas for controlling life ideas which were only fleshed out by the biotech and genomic industries Physicists and chemists turned biologists in alliance with biology s own eugenicists are shown to have abandoned the study of life and suppressed poststructuralist approaches ranging from neoLamarckism to biogeological Gaia theory *Biology Takes Form* Lynn K. Nyhart,1995-10-15 Morphology the study of form is often regarded as a failed science that made only limited contributions to our understanding of the living world Challenging this view Lynn Nyhart argues that morphology was integral to the life sciences of the nineteenth century Biology Takes Form traces the development of morphological research in German universities and illuminates significant institutional and intellectual changes in nineteenth century German biology Although there were neither professors of morphology nor a morphologists society morphologists achieved influence by colonizing niches in a variety of disciplines Scientists in anatomy zoology natural

history and physiology considered their work morphological and the term encompassed research that today might be classified as embryology systematics functional morphology comparative physiology ecology behavior evolutionary theory or histology Nyhart draws on research notes correspondence and other archival material to examine how these scientists responded to new ideas and to the work of colleagues She examines the intertwined histories of morphology and the broader biological enterprise demonstrating that the study of form was central to investigations of such issues as the relationships between an animal s structure and function between an organism and its environment and between living species and their ancestors *Molecular Basis of Developmental and Stem Cell Regulation* Hisato Kondoh,2024-03-21 This book provides a comprehensive overview of the molecular basis of developmental and stem cell regulation It revisits some of the classical models of developmental biology and puts them in context with the findings of modern stem cell research and developmental biology Biomedical research is embarking on a new era due to new tools which are exemplified by stem cell technologies single cell transcriptome analysis and live imaging at a single cell resolution Publications based on cutting edge technologies do often not provide the readers with deep biological backgrounds This causes the risk that precious data are reduced to highly specific descriptions without sufficient biological contexts Contemporary developmental biology on the other hand as written in many textbooks is to a significant extent based on conceptions backdated many decades ago and is not necessarily supported by recent findings Yet the prevailing classical notions tend to mislead modern biomedical researches This book not only presents current models for developmental processes but also reinterprets and re evaluates classic observations thus linking classical and modern worlds of developmental biology Spanning from molecular mechanisms to highly embryological matters it provides a bridge between these different disciplines Written for advanced students of developmental and stem cell biology researchers and teaching scholars this book provides a new road map to modern developmental biology and stem cell biology **Landmarks in Developmental Biology 1883–1924** Klaus Sander,2012-12-06 Developmental biology took shape between 1880 and the 1920s Basic concepts like the developmental role of chromosomes and the germ plasm today s genome self differentiation embryonic regulation and induction gradients and organizers hail from that period indeed the discipline was defined as a whole by the programmatic writings of Wilhelm Roux as early as 1889 The present essays cover the period up to the Nobel prize winning work of Hans Spemann and Hilde Mangold They were originally published in Roux s Archives of Developmental Biology from Vol 200 onward to the journal s centennial issues in 1995 96 The essays aim at introducing current adepts of developmental biology to observations and experiments that have lead their predecessors towards basic concepts still influential today *Quantitative Methods in Biological and Medical Sciences* H.O. Lancaster,2012-12-06 My original intention was to write a history of medical statistics used in its prewar sense expanding the writings on the subject by Major Greenwood from which I formed many of my ideas in the early days immediately after the Second World War In later years I decided that the scope of his works was narrower than what I think is appropriate now for

he was writing in an era before the acceptance and use of the Fisherian methods and he was probably not aware of the mathematization of many parts of biological theory Further the boundary between the medical and biological sciences has largely disappeared Many texts have now been written on branches of the theory and practice inspired by R A Fisher see 4 13 I discuss the history of the use of quantitative methods in the biological sciences defined after the style of Peller 1967 as that branch of science that uses a quantitative approach to or quantitative logical reasoning on or biology The mathematical tech any issue having to do with medicine niques are various and not classified here Within the book I use biological sciences to include medicine but use the longer phrase in its title to avoid misunderstandings as to content Moreover most of the experimental work carried out in medical research laboratories is performed on animals other than man *Evolution of Sameness and Difference* Stanley Shostak,1999-08-19 Darwin's Man in Brazil David A. West,2018-10-08 David West explores Fritz Meuller s 1821 1897 legacy as a Darwinist naturalist and seeks to return him to a cohort of some of the greatest nineteenth century naturalists who conducted research in Brazil West advances the theory that Meuller a great yet often overlooked nineteenth century German naturalist was Darwin s closest intellectual kin *Development and Reproduction in Humans and Animal Model Species* Werner A. Mueller,Monika Hassel,Maura Grealy,2015-01-03 This book describes human development including sexual reproduction and stem cell research with the development of model organisms that are accessible to genetic and experimental analysis in readily understandable texts and 315 multi colored graphics The introductory account of model organisms selected from the entire animal kingdom presents general principles which are then outlined in subsequent chapters devoted to for example sexual development genes controlling development and their contemporary molecular analysis methods production of clones and transgenic animals development of the nervous and circulatory systems regenerative medicine and ageing Finally the evolution of developmental toolkits and novelties is discussed including the genetic basis of the enlargement of the human forebrain Separate boxes are devoted to controversial questions such as the benefits and problems of prenatal diagnostics or the construction of ancient body plans **Cellular Automaton Modeling of Biological Pattern Formation** Andreas Deutsch,Sabine Dormann,2018-03-09 This text explores the use of cellular automata in modeling pattern formation in biological systems It describes several mathematical modeling approaches utilizing cellular automata that can be used to study the dynamics of interacting cell systems both in simulation and in practice New in this edition are chapters covering cell migration tissue development and cancer dynamics as well as updated references and new research topic suggestions that reflect the rapid development of the field The book begins with an introduction to pattern forming principles in biology and the various mathematical modeling techniques that can be used to analyze them Cellular automaton models are then discussed in detail for different types of cellular processes and interactions including random movement cell migration adhesive cell interaction alignment and cellular swarming growth processes pigment cell pattern formation tissue development tumor growth and invasion and Turing type patterns and

excitable media In the final chapter the authors critically discuss possibilities and limitations of the cellular automaton approach in modeling various biological applications along with future research directions Suggestions for research projects are provided throughout the book to encourage additional engagement with the material and an accompanying simulator is available for readers to perform their own simulations on several of the models covered in the text QR codes are included within the text for easy access to the simulator With its accessible presentation and interdisciplinary approach Cellular Automaton Modeling of Biological Pattern Formation is suitable for graduate and advanced undergraduate students in mathematical biology biological modeling and biological computing It will also be a valuable resource for researchers and practitioners in applied mathematics mathematical biology computational physics bioengineering and computer science PRAISE FOR THE FIRST EDITION An ideal guide for someone with a mathematical or physical background to start exploring biological modelling Importantly it will also serve as an excellent guide for experienced modellers to innovate and improve their methodologies for analysing simulation results Mathematical Reviews Evolutionary Biology Max K. Hecht,Ross J. MacIntyre,Michael T. Clegg,2013-06-29 After volume 33 this book series was replaced by the journal Evolutionary Biology Please visit www springer com 11692 for further information Volume 30 brings readers up to date on the investigation of eminent evolutionary biologists and paleobiologists Contributions explore such topics as Adaptation in Drosophila and the role of cytochrome P450s Population genetics and species conservation of the cheetah germ layer theory assymetry in the mammalian skeleton genetic diversity of marine fish the phenomenon of industrial melanism the variation in lizard cranal kinesis Other chapters focus on such issues as overdominance and its relation to higher mutation rate estimates and the use of molecular clocks in determining the rate of nucleotide substitution in higher plants *Knowledge of Life Today* Jean Gayon,Victor Petit,2019-04-30 Knowledge of Life Today presents the thoughts of Jean Gayon a major philosopher of science in France who is recognized across the Atlantic especially for his work in philosophy and the history of life sciences The book is structured around Gayon s personal answers to questions put forward by Victor Petit This approach combines scientific rigor and risk taking in answers that go back to the fundamentals of the subject As well as the relationship between philosophy and the history of science Gayon discusses the main questions of the history and philosophy of biology that marked his intellectual journey Darwin evolutionary biology genetics and molecular biology human evolution and various aspects of the relationship between biology and society in contemporary times racism eugenics biotechnology biomedicine etc

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