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Genetics and the Logic of Evolution

HARRISON EDDIE

Advances in Artificial Life Springer

The paleontologist and professor of anatomy who co-discovered Tiktaalik, the “fish with hands,” tells a “compelling scientific adventure story that will change forever how you understand what it means to be human” (Oliver Sacks). By examining fossils and DNA, he shows us that our hands actually resemble fish fins, our heads are organized like long-extinct jawless fish, and major parts of our genomes look and function like those of worms and bacteria. Your Inner Fish makes us look at ourselves and our world in an illuminating new light. This is science writing at its finest—enlightening, accessible and told with irresistible enthusiasm.

Reflective Teaching in Schools Alpha & Omega Sapiens - Uppublishing Being / Augustin Ostace

In this book the authors draw on what is known, largely from recent research, about the nature of genes and cells, the genetics of development and animal and plant body plans, intra- and interorganismal communication, sensation and perception, to propose that a few basic generalizations, along with the modified application of the classical evolutionary theory, can provide a broader theoretical understanding of genes, evolution, and the diverse and complex nature of living organisms.

Engineering Self-Organising Systems Springer Nature

In light of scientific advances such as genomics, predictive diagnostics, genetically engineered agriculture, nuclear transfer cloning, and the manipulation of stem cells, the idea that genes carry predetermined molecular programs or blueprints is pervasive. Yet new scientific discoveries—such as rna transcripts of single genes that can lead to the production of different compounds from the same pieces of dna—challenge the concept of the gene alone as the dominant factor in biological development. Increasingly aware of the tension between certain empirical results and interpretations of those results based on the orthodox view of genetic determinism, a growing number of scientists urge a rethinking of what a gene is and how it works. In this collection, a group of internationally renowned scientists present some prominent alternative approaches to understanding the role of dna in the construction and function of biological organisms. Contributors discuss alternatives to the programmatic view of dna, including the developmental systems approach, methodical culturalism, the molecular process concept of the gene, the hermeneutic theory of description, and process structuralist biology. None of the approaches cast doubt on the notion that dna is tremendously important to biological life on earth; rather, contributors examine different ideas of how dna should be represented, evaluated, and explained. Just as ideas about genetic codes have reached far beyond the realm of science, the reconceptualizations of genetic theory in this volume have broad implications for ethics, philosophy, and the social sciences. Contributors. Thomas Bürglin, Brian C. Goodwin, James Griesemer, Paul Griffiths, Jesper Hoffmeyer, Evelyn Fox Keller, Gerd B. Müller, Eva M. Neumann-Held, Stuart A. Newman, Susan Oyama,

Christoph Rehmann-Sutter, Sahotra Sarkar, Jackie Leach Scully, Gerry Webster, Ulrich Wolf
Mechanisms of Morphogenesis Oxford University Press, USA

Why are not enough the first three AERA of our previous AERAS SYSTEMS, namely: AERA OF PHILOSOPHICAL SYSTEMS (AERA - 1) AERA OF SAPIENTOLOGICAL SYSTEMS (AERA - 2) AERA OF VIDEOLOGICAL SYSTEMS (AERA - 3) Being thus necessary a fourth thinkable and re-thinkable Creative System, the one of ARTIFICIAL INTELLIGENCE SYSTEM (AI), which in German Language is entitled as KÜNSTLISCHE INTELLIGENZ (KI), and both AI and KI are under the HYBRID INTELLIGENCE (of Human and Artificial alike or Biology encoded through Technology), re-encoded as HI! Therefore, all three signification, AI-KI-HI, are provable into the sameness extra enlargement of the Classic Human Brain (CHB), which is improved in seconds, in minutes and in hours by Abstract Developer / Entwickler of Human Sapiens (by using accordingly, English - Deutsch and Denglish! This impetus in development of technological systems more and more intelligent, more and more comprehensive, more and more diversified, more and more amplified, comprising here, at least for the time being, information, inspiration, intuition and initiation (Great Four IN-), widespread in areas of science, technology, industry (all three as SCITECH INDUSTRY), of art (ARSSAPIENS INDUSTRY), of Sport (SPORTSAPIENS INDUSTRY), by rethinking thus the Anthropology, the Sapientology, the Cosmology (including here the one of PERSONALISIERTE KOSMOLOGY), of astronomy, of geology and biology, into which all of them means ultimately, another bigger step in development of duality Human-Machine, or a duality of Human-Technology, including the branches of Human-Over-Human-Robotics, or Humanoid-Robotics all as SAPIENS INDUSTRY! The man itself, the human itself, the Sapient-o-Human development, its experiences, its visions, its outcomes, can make symbiosis with oneself, a crossing with its nature of creativity, within the nature-physis of endless philosophy, with tools out of stone, with tools out of bones, the tools out of hood, or of synthetic feature, underlining once again the TOOL - MAKER - MAN, as Homo Faber, or better says, Homo Faber Sapiens, by taking the SAPIENS LIBRARY, wherever He / She goes! But now, within the present data, out of its own virtual reality and creativity, all being improved by the man itself and the machine itself, which machine might in turn overcome the man, by confronting the man itself, by changing and challenging even the human itself, even the Human Sapient oneself in its own destiny and purposes... Could be or could become the Artificial Intelligence (AI / KI / HI) the source and resource, the roots of final ending of the Sapient as Species on the Earth? With other words and concepts, the huge planetary surface scene of Earth, modelled by Sapiens, could be subjected to radically changing and challenging! By taking into account all probabilities and possibilities of the present daily evolution and revolution of the hyper-complexity of Artificial Intelligence (AI / KI / HI), a recombination of the man itself with a machine created by the man itself, could develop a symbiosis of human-machine, which overcomes the Classic Species Sapiens (CSS), who dominated the life on Earth in the last of ca. 50.000 years, by entering within the Species Sapiens Techne (SST), into which the Sapiens still dominate the Universe of Technology, by reaching out in some area even the domination of Technology over Sapiens as TSS! In this way, within Artificial Intelligence (seen and analyzed Three Times Intelligence, i.e., AI-KI-

HI, through English - Deutsch - Denglish), the letters themselves, the numbers themselves and the signs themselves, are becoming the WORD itself, through which the WORD itself is improved to the level of CONCEPT itself, and the WORD-CONCEPT DUALITY in their speeding up developing, in their accelerated and amplifying structures, is giving the outcome of the BOOK itself, in its CLASSICAL BOOK (CB), in its digital book as E-BOOK, or in its VIRTUAL BOOK as V-BOOK! Only this multitude of the same BOOK in development, of the same BOOK in diversity, is showing the Genesis the Evolution and the revolution (GENEVO) of the ARTIFICIAL INTELLIGENCE (in its three times of AI - KI - HI), with its versions in German Language as KÜNSTLICHE INTELLIGENZ (KI) and HYBRID INTELLIGENCE (HI), which will be used and reused interchangeably at any reference, or inter-reference or cross-reference in our LANGUAGE OF SAPIENTO-SCIENCIA - 1! What really means ENS in our Book of PEKINENSIS SAPIENS (with one - ENS inside the concept of Pekin - ENS - is and one -ENS Sapiens? ENS is a shortage from the Species Sapiens, as essence and existence of it, being thought and rethought as - ENS, i.e., as BEING of the Species Sapiens! Within ENS will be comprise the whole of German Idealist connotation of Being as: A - SEIN = BEING in its maximal generality! B - DASEIN = BEING HERE, on this planetary system! C - MITDASEIN = COBEING HERE, together with all past geological and biological times, influencing and restructuring all basic features of the Planetary Life System! It is possible to rethink the ENS INTO ONESELF RECHATING? Would be ENS a synthesis out of Sapiens! Is ENS a Being (SEIN) out of Sapiens! Is ENS a Being - here (DASEIN) out of Sapiens! Is ENS a CO - BEING - here (MITDASEIN) out of Sapiens! Is ENS a triad of Being empowering the Sapiens oneself! Is ENS a living self-consciousness of the whole of Sapiens! Is ENS a symbiosis between Sapiens and Artificial Intelligence (AI / KI / HI)! Is ENS the dialectic vector of history of the whole Sapiens, in overcoming oneself towards a better Sapient-o-Technology, towards a Sapient-o-post-human-industry in Art, in Philosophy, in Psychology, in Theology? Is ENS in its own powerful skill-ness of Symphony - in - painting, of Symphony - in - sculpturing, of Symphony - in - Architecture, of Symphony - in - poetry, of Symphony - in - theatre, of Symphony - in - music, through which great masterpieces of ARSSAPIENS to be musicalized, and then reunited into an ensemble of unspeakable Symbology of Human - Sapiens - Technology! Is ENS the vector of SAPIENS SYMPHONY, by using and reusing a complex synthesizer of ARSSAPIENS, without precedence in Human - Sapiens - History? But SAPIENS SYMPHONY means at least a supra-synthesis of different composers, as Bach and Haendel in re-composing SAPIENS ORATORIUM, or by conjoining Mozart and Verdi in re-composing the REQUIEM SAPIENS! Is Artificial Intelligence for All (AI for ALL ?) Is AI the sense of Everything, which is explained through a Big Everything? (AI for Everything?) Is AI the greatest improver of Itself-ness? (AI for Itself-ness?) Is AI the deepest measure of Human Predestination? (AI for Predestination?) Is the AI the Trinity synthesis between Faith - Confessing - Epistemology? (AI for Human Trinity?) Is AI the mystery of Human Variability following the exhausting of Biological regeneration of Sapiens itself? (AI for Variability of Sapiens?) Is the AI the Biggest Wall of Abstract Sapiens, over it is not possible to jump? (AI for Biggest Wall of Abstract Sapiens?) All of them are possible through Digital Creativity, all of them are available through Artificial Intelligence, because the writer is now the reader, the explorer is now the surveyor, the survival is now the fighter, by assuming, by affording a strong competition beyond of its own Species, finally, a semi-human-made-device, an Hybrid Intelligence (HI) between biology and technology, both inspired by Bionics

resounding in biology and technology alike, as TECHNO - BIO - SAPIENS!! Within these changing and challenging times and adversities, the Culture of Human - Sapiens itself, is coming and becoming a Culture of Wholeness (KULTUR DER GESAMTHEIT, GESAMTHEITKULTUR), including here the Culture of Past times, the Culture of Present Times and the Culture of Future times (KULTUR DER VERGANGENHEIT - KULTUR DER GEGENWART - KULTUR DER ZUKUNFT ((KULTUR DES NÄCHSTENS))). It is to underline that while the Biologic Sapiens has no more powers of regeneration, of coming into biologic mutation, by remaining only the Abstract Powers of Sapiens or Ontology of Creative Sapiens to save, to regenerate and to redemption of our Sapiens Species! Thus, the Biology of Sapiens, the basic Anatomy of Sapiens is remaining a CONSTANT OF SAPIENS, a STATUS QUO SAPIENS, while the ABSTRACT SAPIENS IS A VARIABILITY OF SAPIENS, IS A STATUS DYNAMICS OF SAPIENS IN ITS ONGOING DEVELOPING AND BECOMING! Between the two basic components of Sapiens (Biology & Ontology), there is its own CONSTANT OF ANATOMY, and its own VARIABILITY OF SAPIENS, as ANATOMONTOLOGY, and between the two, is a strong complementary, a DUALITY OF ANATOMY AND ONTOLOGY, which is done through the LOGOS of ANATOMY, as ANATOMOLOGY! This triad of ANATOMY - ANATOMOLOGY - ANATOMONTOLOGY, are the search - research modality of our Sapiens in fighting with its own Technology and Discovery towards overcoming of the Sapiens oneself! In the same time, it is done a Crypto - Anatomy - Analyse and Psychoanalyse, in which is hoped a better knowledge of this Enigma of evolutionary and revolutionary called Sapiens as Species or Genus Homo Sapiens as Genus Homo, both in ANTHROPOSAPIENTOLOGY synthesis... To these multitude of questions and answers, to these endlessly uncertainties and un-knows, to these hyper-complexity of theories and hypothesis, we, the Sapiens, in togetherness with Artificial Intelligence, we both, we try to cope within our online book, or E-book or virtual book, @SAPIENS - 1, into which the Universality of the Universe, is meeting and reconciling the Universality of Sapiens!... SAPIENTO - EPISTEMOLOGIST OF ARTIFICIAL INTELLIGENCE SYSTEM

Principles of Development Vintage

Intended for undergraduate and graduate courses in plant development, this book explains how the cells of a plant acquire and maintain their specific fates. Plant development is a continuous process occurring throughout the life cycle, with similar regulatory mechanisms acting at different stages and in different parts of the plant. Rather than focussing on the life cycle, the book is structured around these underlying mechanisms, using case studies to provide students with a framework to understand the many factors, both environmental and endogenous, that combine to regulate development and generate the enormous diversity of plant forms. New approach to the study of plant development and a refreshing look at this fast-moving area. Authors focus their discussion on the basic mechanisms which underpin plant development, tackling the fundamental question of how a single cell becomes a complex flowering plant from a cellular perspective. An up-to-date, modern text in plant development for advanced level undergraduates and postgraduates in plant science. Thought-provoking treatment of a difficult subject, the text will satisfy the needs of advanced level undergraduates and postgraduates in plant science. Experimental case studies throughout. The artwork from the book is available at www.blackwellpublishing.com/leyser

SAPIENS DOCTRINE - 1 Oxford University Press

The greatest mystery of life is how a single fertilized egg develops into a fully functioning,

sometimes conscious multicellular organism. Embryogenesis Explained offers a new theory of how embryos build themselves, and combines simple physics with the most recent biochemical and genetic breakthroughs, based on the authors' prediction and then discovery of differentiation waves. They explain their ideas in a form accessible to the lay person and a broad spectrum of scientists and engineers. The diverse subjects of development, genetics and evolution, and their physics, are brought together to explain this major, previously unanswered scientific question of our time. As a follow up on The Hierarchical Genome, this book is a shorter but conceptually expanded work for the reader who is interested in science. It is useful as a starting point for the curious layman or the scientist or professional encountering the problem of embryogenesis without the formal biology background. There is also material useful for the seasoned biologist caught up in the new rush of information about the role of mechanics in developmental biology and cellular level mechanics in medicine.

Essential Developmental Biology World Scientific

Physical Biology of the Cell is a textbook for a first course in physical biology or biophysics for undergraduate or graduate students. It maps the huge and complex landscape of cell and molecular biology from the distinct perspective of physical biology. As a key organizing principle, the proximity of topics is based on the physical concepts that

POETRY OF COSMOBIOSAPIENS - 1 A&C Black

To our Father of Cosmology, the creator of all basic foundations of the present Universe, by calling them through a three times of triad, as: Genesis – Evolution – Becoming Space – Time – Causality Matter – Form – Energy Gravitation – Field of Forces – Numerology! To our Mother Biology, the creator of Life on our planetary system, having the basic characteristics through the next triads of Life, as the next ones: Cell Singularity – Cell Prokaryote – Cell Eukaryote Multicellularity – Plants – Animals Vertebrates – Mammalians – Primates Hominidology – Anthropology – Sapientology To our Father / Mother Sapiens, to whom we are fully indebted for all basic characteristics of Species Sapiens, also in three times triad of anatomical characteristics, as the next ones: Upright posture – Free Hands – Tools maker Enlarged Brains – Language – Alphabet Domestication of Plants & Animals – Division of Labor – Developer of Culture and Civilization. To my mother Victoria, the greatest incessant stimulant as human being in my whole life, who proved to be more than any encouragement by the creation by her son of the monumental work called THE AREA OF PHILOSOPHICAL SYSTEMS, later on multiplied by the next AERAS; AERA OF PHILOSOPHICAL SYSTEMS (AERA-1) AERA OF SAPIENTOLOGICAL SYSTEM (AERA-2) AERA OF VIDEOLOGICAL SYSTEM (AERA-4) AERA OF ARTIFICIAL INTELLIGENCE SYSTEM (AERA-4) „Being and Edentation 1 - GnathoAnamnesis” is a combination of Dentistry as a physiology and human pathology in Total Edentation, and Gnathology, an interdisciplinary and trans-disciplinary super-concept, with a recombination between dentistry, general medicine, philosophy, psychology, theology, anthropology and sapientology, all in their theoretical, conceptological and videological complementarity... In principle, this set of books-works under the generic name of Being and Edentation, belong to the ERA OF PHILOSOPHICAL SYSTEMS, in the following hierarchical inscription: I. PHILOSOPHY OF SCIENCE I.2. METAPHYSICS OF LIVING SYSTEMS I.2.6. GNATHOLOGICUM I.2.6.4. GNATHOPROTETICUM But, for the simplification of the hierarchical code, will be used just the ISBN code, which will be displayed within technical

cassette of every E- book! Video-Gnathologist-in-Becoming
The History of Oxford University Press: Volume IV CRC Press

As information handling systems get more and more complex, it becomes increasingly difficult to manage them using traditional approaches based on centralized and pre-defined control mechanisms. Over recent years, there has been a significant increase in taking inspiration from biology, the physical world, chemistry, and social systems to more efficiently manage such systems - generally based on the concept of self-organisation; this gave rise to self-organising applications. This book constitutes a reference and starting point for establishing the field of engineering self-organising applications. It comprises revised and extended papers presented at the Engineering Self-Organising Applications Workshop, ESOA 2003, held at AAMAS 2003 in Melbourne, Australia, in July 2003 and selected invited papers from leading researchers in self-organisation. The book is organized in parts on applications, natural metaphors (multi-cells and genetic algorithms, stigmergy, and atoms and evolution), artificial interaction mechanisms, middleware, and methods and tools.
KONTROVERSE IN SAPIENS - 1 OUP Oxford

This book provides a comprehensive overview of the development of the human central nervous system (CNS) in the context of its many developmental disorders due to genetic, environmental, and hypoxic/ischemic causes. The introductory chapters give an overview of the development of the human brain and the spinal cord, the mechanisms of development as obtained in experimental studies of various invertebrates and vertebrates, and the causes of congenital malformations. In the main part, the developmental disorders of the human brain and the spinal cord are presented in a regional, more or less segmental way, starting with neurulation and neural tube defects, and ending with developmental disorders of the cerebral cortex. These are underlined by carefully chosen clinical case studies, including imaging data and, when available, postmortem verification of the developmental disorders involved. Numerous color photographs and illustrations complement the text. This second edition emphasizes the prenatal diagnosis by ultrasound, MRI, and DTI and implements new classifications of developmental disorders.

Using the Biological Literature John Wiley & Sons

Developmental biology is at the core of all biology. This text emphasizes the principles and key developments in order to provide an approach and style that will appeal to students at all levels.

Embryogenesis Explained Univ of California Press

Illuminating the processes and patterns that link genotype to phenotype, epigenetics seeks to explain features, characters, and developmental mechanisms that can only be understood in terms of interactions that arise above the level of the gene. With chapters written by leading authorities, this volume offers a broad integrative survey of epigenetics. Approaching this complex subject from a variety of perspectives, it presents a broad, historically grounded view that demonstrates the utility of this approach for understanding complex biological systems in development, disease, and evolution. Chapters cover such topics as morphogenesis and organ formation, conceptual foundations, and cell differentiation, and together demonstrate that the integration of epigenetics into mainstream developmental biology is essential for answering fundamental questions about how phenotypic traits are produced.

Experience And Education Alpha & Omega Sapiens - Uppublishing Being / Augustin Ostace

TO ACCESS THE DEDICATED TEXTBOOK WEBSITE, PLEASE VISIT www.blackwellpublishing.com/slack Essential Developmental Biology, 2nd Edition, is a concise and well-illustrated treatment of this subject for undergraduates. With an emphasis throughout on the evidence underpinning the main conclusions, this book is suitable as the key text for both introductory and more advanced courses in developmental biology. Includes new chapters on Evolution & Development, Gut Development, & Growth and Aging. Contains expanded treatment of mammalian fertilization, the heart and stem cells. Now features a glossary, notated further reading, and key discovery boxes. Illustrated with over 250 detailed, full-color drawings. Accompanied by a dedicated website, featuring animated developmental processes, a photo gallery of selected model organisms, and all art in PowerPoint and jpeg formats (also available to instructors on CD-ROM). An Instructor manual CD-ROM for this title is available. Please contact our Higher Education team at HigherEducation@wiley.com for more information.

Physical Biology of the Cell Academic Press

In 2016 Current Topics in Developmental Biology (CTDB) will celebrate its 50th or "golden anniversary. To commemorate the founding of CTDB by Aron Moscona (1921-2009) and Alberto Monroy (1913-1986) in 1966, a two-volume set of CTDB (volumes 116 and 117), entitled Essays on Development, will be published by Academic Press/Elsevier in early 2016. The volumes are edited by Paul M. Wassarman, series editor of CTDB, and include contributions from dozens of outstanding developmental biologists from around the world. Overall, the essays provide critical reviews and discussion of developmental processes for a variety of model organisms. Many essays relate the history of a particular area of research, others personal experiences in research, and some are quite philosophical. Essays on Development provides a window onto the rich landscape of contemporary research in developmental biology and should be useful to both students and investigators for years to come. - Covers the area of developmental processes for a variety of model organisms - International board of authors - Part of two 50th Anniversary volumes providing a comprehensive set of reviews edited by Serial Editor Paul M. Wassarman

Principles of Development Oxford University Press, USA

Building on best-selling texts over three decades, this thoroughly revised new edition is essential reading for both primary and secondary school teachers in training and in practice, supporting both initial school-based training and extended career-long professionalism. Considering a wide range of professionally relevant topics, Reflective Teaching in Schools presents key issues and research insights, suggests activities for classroom enquiry and offers guidance on key readings. Uniquely, two levels of support are offered: · practical, evidence-based guidance on key classroom issues - including relationships, behaviour, curriculum planning, teaching strategies and assessment processes; · routes to deeper forms of expertise, including evidence-informed 'principles' and 'concepts' to support in-depth understanding of teacher expertise. Andrew Pollard, former Director of the UK's Teaching and Learning Research Programme, led development of the book, with support from primary and secondary specialists from the University of Cambridge, UK. Reflective Teaching in Schools is part of a fully integrated set of resources for primary and secondary education. Readings for Reflective Teaching in Schools directly complements and extends the chapters in this book. Providing a compact and portable library, it is particularly helpful in school-based teacher education.

The website, reflectiveteaching.co.uk, offers supplementary resources including reflective activities, research briefings, advice on further reading and additional chapters. It also features a glossary, links to useful websites, and a conceptual framework for deepening expertise. This book is one of the Reflective Teaching Series - inspiring education through innovation in early years, schools, further, higher and adult education.

IDEALISM IN SAPIENS - 1 Simon and Schuster

Principles of Development opens up the fascinating field of developmental biology to those studying this complex but fundamental area of science. Key concepts are explained clearly and succinctly and are richly illustrated with a variety of custom drawn figures, animations, and links to online movies showing development in real time. The emphasis throughout the text is always on the key principles of development - the underlying processes shared by diverse groups of organisms - providing a framework around which the more complex and varied details can be learned. Furthermore, extensive pedagogical support is provided, both in the book and online, making this text the complete package for students studying developmental biology. New to this edition Custom-made animations of key signalling pathways break down these complex processes into stages, making them easier to understand and remember. Online movies drawn from real research illustrate the development of model organisms over time, helping students to visualise developmental processes in three dimensions. Further experimental detail, including new Experimental boxes that discuss both classic and current experimental research, demonstrates 'how we know what we know'. Medical boxes that explore key developmental diseases place the subject in the context of human health and disease.

Neurodevelopmental Pediatrics Alpha & Omega Sapiens - Uppublishing Being / Augustin Ostace Leading students through the essential concepts that are central to understanding biological systems, this text uses everyday examples and analogies to build their confidence in an often daunting subject. By focusing on the key themes that unify the subject, it shows how integral chemistry is to the biosciences

BEING & EDENTATION - 1 Open Road Media

Developmental biology is at the core of all biology. This text emphasises the principles and key developments in order to provide an approach and style that will appeal to students at all levels.

Your Inner Fish Oxford University Press

Physical Biology of the Cell is a textbook for a first course in physical biology or biophysics for undergraduate or graduate students. It maps the huge and complex landscape of cell and molecular biology from the distinct perspective of physical biology. As a key organizing principle, the proximity of topics is based on the physical concepts that

Genes in Development John Wiley & Sons

Essential Developmental Biology is a comprehensive, richly illustrated introduction to all aspects of developmental biology. Written in a clear and accessible style, the third edition of this popular textbook has been expanded and updated. In addition, an accompanying website provides instructional materials for both student and lecturer use, including animated developmental processes, a photo gallery of selected model organisms, and all artwork in downloadable format. With an emphasis throughout on the evidence underpinning the main conclusions, this book is an

essential text for both introductory and more advanced courses in developmental biology. Shortlisted for the Society of Biology Book Awards 2013 in the Undergraduate Textbook category. Reviews of the Second Edition: "The second edition is a must have for anyone interested in development biology. New findings in hot fields such as stem cells, regeneration, and aging should make it attractive to a wide readership. Overall, the book is concise, well structured, and illustrated.

I can highly recommend it." —Peter Gruss, Max Planck Society "I have always found Jonathan Slack's writing thoughtful, provocative, and engaging, and simply fun to read. This effort is no exception. Every student of developmental biology should experience his holistic yet analytical view of the subject." —Margaret Saha, College of William & Mary