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Contextualizing Systems Biology

Presuppositions and Implications of a
New Approach in Biology

 Springer

Contextualizing Systems Biology Presuppositions Implications

Sara Green



Contextualizing Systems Biology Presuppositions Implications:

Contextualizing Systems Biology Martin Döring, Imme Petersen, Anne Brüninghaus, Regine Kollek, 2015-12-18 This collective monograph aims at contributing to an improved understanding of the epistemic presumptions sociocultural implications and historically backgrounds of the newly emerging and currently expanding approach of systems biology In doing so it offers empirically grounded valuable and reflexive information about a paradigmatic shift in the biosciences for a wide range of scientists working in the interdisciplinary areas of systems biology synthetic biology molecular biology biology the philosophy of science the sociology of science and scientific knowledge science and technology studies technology assessment and the like The authors of this monograph share the theoretical methodological premise that science is a culturally and socially embedded practice which characterizes our culture as a scientific one and at the same time draws its innovative potential from its socio cultural context This dialectic relationship lies at the heart of the current development of systems biology which is conceived as a so called successor of omics research and triggered by high throughput information technologies At the same time a need for a holistic conceptualization of complex biological processes emerges The title *Contextualizing Systems Biology* suggests that this book analyzes the development and advent of systems biology from different theoretical and methodological perspectives We investigate a variety of contexts ranging from the analysis of cognitive contexts such as basic theoretical concepts to regulative contexts policies to the concrete application of a systems biology in the socio scientific context of a European research project In empirically analyzing these different and interrelated layers and dimensions of systems biology the scope of the book goes beyond present attempts to investigate the advent of new approaches in the biological sciences as it frames and assesses systems biology from an interdisciplinary and integrated perspective

From Technology Transfer to Intercultural Development S. Strijbos, Jan van der Stoep, 2012-02-01 The idea for this book has been born in a dialogue between the authors of *In Search of an Integrative Vision for Technology* 2006 and a group of scholars and practitioners from South Africa whose research and development activities focuses on problems of traditional African society and culture Although there existed awareness in the writing of the earlier book that the search for normativity for our technological society should encompass the different cultural spheres of the world no attention has been paid to the problem of interculturality Focussing on the development of technology in the developed societies the emphasis was laid on finding a basis for interdisciplinarity bridging the gaps between the sciences and humanities as well as between theory and practice According to the vision that has been elaborated on in the above book not the autonomous dynamics of technology as a free flying projectile should determine the future of our global world but guidance has to be provided by a normative perspective on technology for the common good of all people and cultures Following further this line of research the current book aims to address explicitly the intercultural dimension of technology in our globalising world

Biopolitics for beginners Ottavio Marzocca, 2021-02-25T00:00:00+01:00 The term biopolitics can be fully understood only within the

context of modern forms of governing society From this perspective the development of modern medical knowledge the re organization of the hospital as a health institution the growing attention to issues related to population and the rise of biological knowledge can be connected with the influence of economic rationality on the most important political strategies In this book the crucial role that the family has played throughout the history of biopolitics is also explored explaining how it is firstly a place of government of life as well as a means to extend various forms of biopower to the whole society By analysing the works of key figures in the debate on biopolitics such as Agamben Negri Esposito Rose Cooper among others this volume offers a systematic examination of this notion also in relation to the current ecological crisis and the pandemic of Covid 19 addressing fundamental problems of political thought and referring to great thinkers such as Foucault and Arendt Plato and Aristotle Mimesis International

Systems Biology Fred Boogerd, Frank J. Bruggeman, Jan-Hendrik S. Hofmeyr, H.V. Westerhoff, 2007-03-20 Systems biology is a vigorous and expanding discipline in many ways a successor to genomics and perhaps unprecedented in its combination of biology with a great many other sciences from physics to ecology from mathematics to medicine and from philosophy to chemistry Studying the philosophical foundations of systems biology may resolve a longer standing issue i.e. the extent to which Biology is entitled to its own scientific foundations rather than being dominated by existing philosophies Answers the question of what distinguishes the living from the non living An in depth look to a vigorous and expanding discipline from molecule to system Explores the region between individual components and the system

Philosophy of Systems Biology Sara Green, 2016-12-28 The emergence of systems biology raises many fascinating questions What does it mean to take a systems approach to problems in biology To what extent is the use of mathematical and computational modelling changing the life sciences How does the availability of big data influence research practices What are the major challenges for biomedical research in the years to come This book addresses such questions of relevance not only to philosophers and biologists but also to readers interested in the broader implications of systems biology for science and society The book features reflections and original work by experts from across the disciplines including systems biologists philosophers and interdisciplinary scholars investigating the social and educational aspects of systems biology In response to the same set of questions the experts develop and defend their personal perspectives on the distinctive character of systems biology and the challenges that lie ahead Readers are invited to engage with different views on the questions addressed and may explore numerous themes relating to the philosophy of systems biology This edited work will appeal to scholars and all levels from undergraduates to researchers and to those interested in a variety of scholarly approaches such as systems biology mathematical and computational modelling cell and molecular biology genomics systems theory and of course philosophy of biology

Systems Biology, 2006 **Systematic** James R. Valcourt, 2018

Approaching Organisms as Systems Constantinos Mekios, 2007 Abstract Systems Biology SB refers to an emerging approach for the characterization of complex biological systems The philosophical implications of its methodology are

explored here through a consideration of its theoretical underpinnings and of its practical impact The dissertation addresses two central questions 1 What is SB and 2 Does it represent a fundamental shift in biology s fundamental theory or in its practical aims Preliminary analysis suggests that SB cannot be adequately defined solely on the basis of a general agreement according to which it seeks a system level global understanding of complex biological processes Furthermore the issue of its characterization is not resolved by examining its historical relation to reductionism on the one hand and General System Theory on the other A more successful approach to this problem of definition is offered by a topographical account of SB s interdisciplinary constitution supplemented with a presentation of the standard guidelines for its practice Two case examples from the recent scientific literature reveal reliance on quasi network formalisms for the representation of biological systems as the defining feature of SB However such computer generated models have yet to produce novel insights into the self organization and regulation of the systems thus far analyzed Therefore a more robust description of biological systems must await the development of experimental methods designed to capture the non linear causation cascade that characterizes many biological processes as well as the invention of computer simulation programs capable of processing the data obtained by such methods This study concludes with two philosophical speculations First the reason that SB fails to successfully fulfill its goal of offering new insights into biological self organization self regulation and structural functional complexity is that it continues to adhere to classical reductionism now clothed in a more elaborate connectionist schema Second SB s methodological failure has substantive philosophical consequences explained in this work relevant to the debate concerning the scientific status of biology the fate of the unity of science project and the agenda of contemporary philosophy of biology

The Inner Workings of Life Eberhard O. Voit,2016

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