

Niche Construction

THE NEGLECTED PROCESS IN EVOLUTION

F. John Odling-Smee, Kevin N. Laland,
and Marcus W. Feldman

Niche Construction The Neglected Process In Evolution

**Susan Oyama, Russell D. Gray, Paul E.
Griffiths**



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selection to a more general theory about the coevolution of organisms with their environments In Niche Construction John Odling Smee the leading authority on niche construction theory extends evolutionary theory from an explanation of how populations of organisms respond to natural selection pressures in their environments to a more general theory about the coevolution of organisms with their environments Organisms he shows cause changes in their local external environments by interacting with them thereby contributing in fundamental ways to their own and one another s evolution This book applies niche construction theory to current problems such as human induced global warming and suggests how humans might contribute positively to the future evolution of life on Earth Odling Smee explains how orthodox evolutionary theory falls short in two ways First it does not describe how organisms contribute to their own and one another s evolution through their environment changing niche constructing activities Second it fails to explain how genetic evolution can give rise to supplementary knowledge gaining processes in many species These include certain developmental processes in individual organisms and socio cultural processes in animals including humans Neo Darwinism the author writes assesses the fitness of individual organisms in populations in terms of their capacity to survive and reproduce but without attributing these capacities to the active purposeful agency of organisms He argues that the purposeful agency of individual organisms plays a central role in evolution He also discusses the relationship of an organism s energy consuming activities and the second law of thermodynamics

Original Sin and the Evolution of Sexual Difference Megan Loumagne Ulishney, Megan Loumagne, 2022 Original Sin and the Evolution of Sexual Difference re examines Christian thinking about original sin and sexual difference in conversation with recent developments in evolutionary biology and feminist philosophy and theology

Cycles of Contingency Susan Oyama, Russell D. Gray, Paul E. Griffiths, 2003-01-24 The nature nurture debate is not dead Dichotomous views of development still underlie many fundamental debates in the biological and social sciences Developmental systems theory DST offers a new conceptual framework with which to resolve such debates DST views ontogeny as contingent cycles of interaction among a varied set of developmental resources no one of which controls the process These factors include DNA cellular and organismic structure and social and ecological interactions DST has excited interest from a wide range of researchers from molecular biologists to anthropologists because of its ability to integrate evolutionary theory and other disciplines without falling into traditional oppositions The book provides historical background to DST recent theoretical findings on the mechanisms of heredity applications of the DST framework to behavioral development implications of DST for the philosophy of biology and critical reactions to DST

Evolutionary Causation Tobias Uller, Kevin N. Lala, 2019-09-03 A comprehensive treatment of the concept of causation in evolutionary biology that makes clear its central role in both historical and contemporary debates Most scientific explanations are causal This is certainly the case in evolutionary biology which seeks to explain the diversity of life and the adaptive fit between organisms and their surroundings The nature of causation in evolutionary biology however is contentious How causation is understood

shapes the structure of evolutionary theory and historical and contemporary debates in evolutionary biology have revolved around the nature of causation. Despite its centrality and differing views on the subject, the major conceptual issues regarding the nature of causation in evolutionary biology are rarely addressed. This volume fills the gap, bringing together biologists and philosophers to offer a comprehensive interdisciplinary treatment of evolutionary causation. Contributors first address biological motivations for rethinking evolutionary causation, considering the ways in which development, extra-genetic inheritance, and niche construction challenge notions of cause and process in evolution, and describing how alternative representations of evolutionary causation can shed light on a range of evolutionary problems. Contributors then analyze evolutionary causation from a philosophical perspective, considering such topics as causal entanglement, the commingling of organism and environment, and the relationship between causation and information. Contributors: John A. Baker, Lynn Chiu, David I. Dayan, Ren e A. Duckworth, Marcus W. Feldman, Susan A. Foster, Melissa A. Graham, Heikki Helanter, Kevin N. Lala, Armin P. Moczek, John Odling-Smee, Jun Otsuka, Massimo Pigliucci, Arnaud Pocheville, Arlin Stoltzfus, Karola Stotz, Sonia E. Sultan, Christoph Thies, Tobias Uller, Denis M. Walsh, Richard A. Watson.

Evolutionary Ethnobiology Ulysses Paulino Albuquerque, Patrícia Muniz De Medeiros, Alejandro Casas, 2015-09-23. Ethnobiology is a fascinating science. To understand this vocation, it needs to be studied under an evolutionary point of view that is very strong and significant, although this aspect is often poorly approached in the literature. This is the first book to compile and discuss information about evolutionary ethnobiology in English.

Oxford Handbook of Evolutionary Psychology Robin Ian MacDonald, Dunbar, Louise Barrett, 2007. The Oxford Handbook of Evolutionary Psychology is the definitive, comprehensive, and authoritative text on this burgeoning field. With contributions from over fifty experts in the field, the range and depth of coverage is unequalled. It will be an essential resource for students and researchers in psychology.

Natural Born Monads Andrea Altobrando, Pierfrancesco Biasetti, 2020-10-12. We are still looking for a satisfactory definition of what makes an individual being a human individual. The understanding of human beings in terms of organism does not seem to be satisfactory because of its reductionistic flavor. It satisfies our need for autonomy and benefits our lives thanks to its medical applications, but it disappoints our needs for conscious and free self-determination. For similar reasons, i.e. because of its anti-libertarian tone, an organicistic understanding of the relationship between individual and society has also been rejected, although no truly satisfactory alternative for harmonizing individual and social wellness has been put forth. Thus, a reassessment of the very concepts of individual and organism is needed. In this book, the authors present a specific line of thought which started with Leibniz's concept of monad in the 17th century, continued through Kant and Hegel, and as a result reached the first Eastern country to attempt to assimilate as well as confront with Western philosophy and sciences, i.e. Japan. The line of thought we are tracing has gone on to become one of the main voices in current debates in the philosophy of biology, as well as philosophical anthropology and social philosophy. As a whole, the volume offers a both historical and systematic account of

one specific understanding of individuals and their environment which tries to put together its natural embedding as well as its dialectical nature Such a historical systematic map will also allow to better evaluate how life sciences impact our view of our individual lives of human activities of institutions politics and finally of humankind in general

Organization in Biology Matteo Mossio,2023-11-10 This open access book assesses the prospects of re adopting organization as a pivotal concept in biology It shows how organization can nourish biological thinking and practice by reconnecting with the idea of biology as the science of organized systems The book provides a comprehensive state of the art picture of the characterizations and uses of the concept of organization in both biological science and philosophy of biology It also deals with a variety of themes including evolution organogenesis heredity cognition and ecology with respect to which the concept of organization can guide the elaboration of original models and new experimental protocols It will be of interest to biologists and scholars working in philosophy of science alike

Israel Journal of Plant Sciences ,2005

Ecology Research Progress Sebastián I. Muñoz,2007 The new book presents important recent research on ecology which is the study of the interrelationships between organisms and their environment including the biotic and abiotic components There are at least six kinds of ecology ecosystem physiological behavioural population and community specific topics include Acid Deposition Acid Rain Revisited Biodiversity Biocomplexity Carbon Sequestration in Soils Coral Reefs Ecosystem Services Environmental Justice Fire Ecology Floods Global Climate Change Hypoxia and Invasion

The American Naturalist ,2009

Encyclopedia of Science, Technology, and Ethics Carl Mitcham,2005 This encyclopedia considers both the professional ethics of science and technology and the social ethical and political issues raised by science and technology

Current Issues in Theoretical Philosophy Richard Schantz,2004

The Year in Evolutionary Biology ,2009

The Intertwined Population Biology of Symbiotic Ants and Plants in the Amazon Frederickson Megan Elizabeth,2006

Emblematica ,2008

A Simulations Approach to the Genetic and Cultural Prehistory of Humans Omkar Deshpande,2008

Species Diversity in Northern California Salt Marshes Brenda Joy Grewell,2004

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