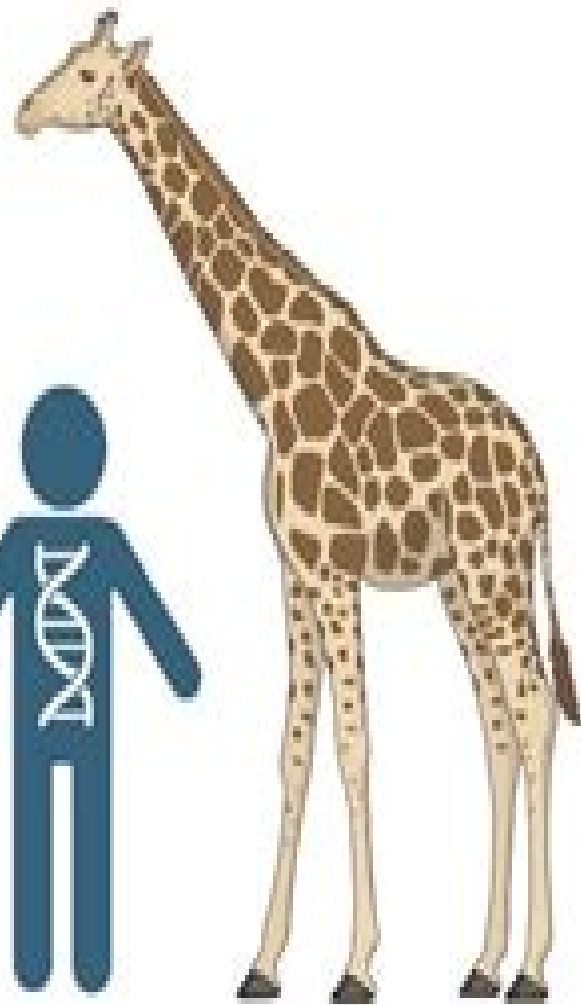
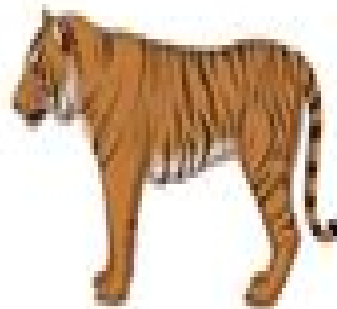




Ecological Niche



Organism And Environment Ecological Development Niche Construction And Adaptation

**Peter A. Corning, Stuart A.
Kauffman, Denis Noble, James A.
Shapiro, Richard I. Vane-Wright**

Organism And Environment Ecological Development Niche Construction And Adaptation:

Organism and Environment Sonia E. Sultan, 2015-09-11 Over the past decade advances in both molecular developmental biology and evolutionary ecology have made possible a new understanding of organisms as dynamic systems interacting with their environments This innovative book synthesizes a wealth of recent research findings to examine how environments influence phenotypic expression in individual organisms ecological development or eco devo and how organisms in turn alter their environments niche construction A key argument explored throughout the book is that ecological interactions as well as natural selection are shaped by these dual organism environment effects This synthesis is particularly timely as biologists seek a unified contemporary framework in which to investigate the developmental outcomes ecological success and evolutionary prospects of organisms in rapidly changing environments Organism and Environment is an advanced text suitable for graduate level students taking seminar courses in ecology evolution and developmental biology as well as academics and researchers in these fields

Organism and Environment Sonia E. Sultan, 2015 Over the past decade advances in both molecular developmental biology and evolutionary ecology have made possible a new understanding of organisms as dynamic systems interacting with their environments This innovative book synthesizes a wealth of recent research findings to examine how environments influence phenotypic expression in individual organisms ecological development or eco devo and how organisms in turn alter their environments niche construction A key argument explored throughout the book is that ecological interactions as well as natural selection are shaped by these dual organism environment effects This synthesis is particularly timely as biologists seek a unified contemporary framework in which to investigate the developmental outcomes ecological success and evolutionary prospects of organisms in rapidly changing environments Organism and Environment is an advanced text suitable for graduate level students taking seminar courses in ecology evolution and developmental biology as well as academics and researchers in these fields

Eine kritische Theorie der Tugendethik Richard Friedrich Runge, 2023-02-08 Der neo aristotelischen Tugendethik zufolge h ngen ethische Ma st be von der biologischen Spezieszugeh rigkeit der ethischen Akteure ab Diese Perspektive so argumentiert Richard Friedrich Runge in seinem Buch bleibt bislang unbefriedigend Unter Einbeziehung der modernen philosophischen Biologie und der dialektischen Anthropologie von Erich Fromm pl diert der Autor f r eine kritische Wendung der Tugendethik und ein dialektisches Verst ndnis der Beziehung von Individuum und Umwelt Seine kritische Theorie der Tugendethik ist der Versuch eines gro en systematischen Neuentwurfs in einer der bestimmenden metaethischen Debatten unserer Zeit <https://creativecommons.org/licenses/by/4.0/>

Die Lichtwandler Zoë Schlanger, 2024-10-09 Ein Meisterwerk der Wissenschaftsliteratur Robin Wall Kimmerer Autorin von Geflochtenes S gras Die preisgekr nte Wissenschaftsjournalistin Zo Schlanger erz hlt in ihrer poetisch philosophischen Erkundung was wir von den geheimnisvollen F higkeiten der Pflanzen lernen k nnen Wurzeln machen erfinderisch Pflanzen berqueren Ozeane verwandeln Licht in Leben und nehmen wahr was

uns verborgen bleibt Sie führen ganz eigene komplexe Sozialleben können uns aber auch dabei helfen die scheinbar unvermeidliche Klimakatastrophe aufzuhalten Dass unser Planet überhaupt bewohnbar ist verdanken wir diesen Geschöpfen die uns zugleich vollkommen vertraut und faszinierend fremd sind Voll staunender Neugier spürt Zo Schlinger den Geheimnissen der Pflanzenwelt und der Verbundenheit alles Lebendigen nach Sie erzählt von der Anpassungsfähigkeit und den ausgeklügelten Überlebensstrategien der Pflanzen denen es gelingt die denkbar ungeeignetsten Orte zu ihrem Lebensraum zu machen und berichtet von revolutionären Entdeckungen in der Botanik die alles in Frage stellen was wir bisher über Pflanzen zu wissen glaubten Dabei taucht sie tief in die faszinierende Welt dieser Wissenschaft ein und verwebt ihre Erkenntnisse mit philosophischen Überlegungen über die großen Zusammenhänge des Lebens Denn die leidenschaftlich geführten Debatten um das mögliche Bewusstsein der Pflanzen ihre Fähigkeit zu kommunizieren und sich sozial zu verhalten sind Fragen nach dem Wesen der Realität selbst Mit dem Verständnis der Pflanzen entschlüsseln wir das Wunder des Lebens Brilliant Pflichtlektüre über die Wunder der großen Welt Dieses Buch hat mich erschüttert und verändert David G Haskell Autor von Das verborgene Leben des Waldes Dieses Buch hat meinen Blick auf Pflanzen und die Natur selbst vollkommen verändert faszinierend weiterführend und schmerzlich schön Ed Yong Autor von Die erstaunlichen Sinne der Tiere Bereichernd lebendig und voller Überraschungen Lesen Sie dieses Buch Sie werden die Welt auf ganz neue Weise betrachten Elizabeth Kolbert Autorin von Das sechste Sterben

Social Practices as Biological Niche Construction Joseph Rouse, 2023-08-16

A broad synthetic philosophy of nature focused on human sociality In this book Joseph Rouse takes his innovative work to the next level by articulating an integrated philosophy of society as part of nature He shows how and why we ought to unite our biological conception of human beings as animals with our sociocultural and psychological conceptions of human beings as persons and acculturated agents Rouse's philosophy engages with biological understandings of human bodies and their environments as well as the diverse practices and institutions through which people live and engage with one another Familiar conceptual separations of natural social and mental worlds did not arise by happenstance he argues but often for principled reasons that have left those divisions deeply entrenched in contemporary intellectual life Those reasons are eroding in light of new developments across the disciplines but that erosion has not been sufficient to produce more adequately integrated conceptual alternatives until now Social Practices and Biological Niche Construction shows how the characteristic plasticity plurality and critical contestation of human ways of life can best be understood as evolved and evolving relations among human organisms and their distinctive biological environments It also highlights the constitutive interdependence of those ways of life with many other organisms from microbial populations to certain plants and animals and explores the consequences of this in depth noting for instance how the integration of the natural and social also provides new insights on central issues in social theory such as the body language normativity and power

On Epigenetics and Evolution Carlos M. Guerrero-Bosagna, 2024-06-25 The emergence of genomic variability is a fundamental process in

evolution that has been the focus of recent high profile scientific debates with a particular focus on epigenetic modifications shown to influence genomic variability Epigenetics and Evolution a new volume in the Translational Epigenetics series introduces key themes from current epigenetic evolution research with contributions from leading scientists around the world that investigate the role of epigenetic mechanisms in evolution from a variety of different angles with each contribution combining theory current research overviews and applications This book gives researchers students and clinicians a better understanding of the origin of genotypic and phenotypic variability the role of epigenetics in development and inheritance how epigenetics may affect speciation and geographic distribution and the evolution of epigenetic mechanisms in different taxa and helps them apply their learnings across new research Other modalities and subtopics explored include epigenetics in neutral evolution epigenetics and cellular physiology Paleo epigenetics Archeo epigenetics epigenetics and pathogen evolution epigenetics in unicellular organisms epigenetic evolution in plants invertebrates and vertebrates and the role of epigenetics in human evolution and its societal impact Introduces and examines the role of epigenetic modifications in regulating genomic variability and thus evolutionary biology across species Draws together key themes across epigenetic evolution in plants invertebrates and vertebrates and the role of epigenetics in human evolution Includes bulleted chapter summaries and key points lists terms and definitions and rich use of illustrations where possible to reinforce understanding and actionability of the content Features chapter contributions from international leaders in the field

Comprehensive Molecular Insect Science ,2025-11-01 *Comprehensive Molecular Insect Science* Second Edition is a unique resource that provides extensive review articles on contemporary topics in insect science and entomology It covers crucial new subjects such as genetic control pollinators and the effects of climate change and environmental shifts on insect physiology and molecular biology Every section includes thorough discussions on the influence of genomics proteomics metabolomics and bioinformatics in the field which has seen significant advancements since the previous edition The book bridges gaps between disciplines helping readers grasp the fundamentals of insect science and appreciate its applications such as in environmental control Structured chapters guide readers offering references and practical resources like methods This authoritative reference is vital for understanding and managing the future of our civilization intertwined with the fate of insects and flora on our planet Covers all contemporary topics stressing the importance of insect science in the context of climate change ecological sustainability and the challenges confronting humanity in the future Offers a comprehensive and authoritative review of the field helping readers navigate fragmented information they can t find elsewhere Bridges the gap between core entomology and related disciplines ranging from molecular biology to ecology Includes topics such as genetic control pollinators the impact of environmental change and the huge progress of genomics proteomics metabolomics and bioinformatics in the field

The Anthropocene Judgments Project Nicole Rogers,Michelle Maloney,2023-12-01 This book is a collection of speculative judgments that along with accompanying commentaries pursue a novel enquiry into how judges

might respond to the formidable and planetary scaled challenges of the Anthropocene The book's contributors from Australia Asia Europe and the United Kingdom take up a range of issues including multispecies justice the challenges of intergenerational justice dimensions of postcolonial justice the potential contribution of AI platforms to the judgment process and the future of judging and law in and beyond the Anthropocene The project takes its inspiration from existing critical judgment projects It is however thoroughly interdisciplinary In anticipating future scenarios and designing or adapting legal principles to respond to them the book's contributors have been assisted by climate scientists with expertise in future modelling they have benefitted from the experience of fiction writers in future worldbuilding and they have incorporated elements of the future worlds depicted in various texts of speculative fiction and artworks The judgments are of necessity speculative and hypothetical in their subject matter Thus taken together they constitute a collaborative experiment in creating the inclusive and radical imaginaries of the future common law The Anthropocene Judgments Project will appeal to critical and sociolegal academics scholars in the environmental humanities environmental lawyers students and others with interests in the pressing issues of ecology multispecies justice climate change the intersection of AI platforms and the law and the future of law in the Anthropocene

The Ecology of Collective Behavior Deborah M. Gordon, 2023-10-24 A groundbreaking new perspective on collective behavior across biological systems Collective behavior is everywhere in nature from gene transcription and cancer cells to ant colonies and human societies It operates without central control using local interactions among participants to allow groups to adjust to changing conditions The Ecology of Collective Behavior brings together ideas from evolutionary biology network science and dynamical systems to present an ecological approach to understanding how the interactions of individuals generate collective outcomes Deborah Gordon argues that the starting point for explaining how collective behavior works in any natural system is to consider how it changes in relation to the changing world around it She shows how feedback use the means by which networks of interactions operate and the organization of interaction networks evolve to reflect the stability and demands of the environment Ant colonies function collectively and the enormous diversity of species in different habitats provides opportunities to look for general ecological patterns Through an in depth comparison of ant species Gordon identifies broad trends in how the diversity of collective behavior in many other collective systems reflects the dynamics of the environment Shedding light on how individual actions give rise to group behavior The Ecology of Collective Behavior explains the evolution of collective behavior through innovation in participant interactions offering new insights into how collective responses function in changing conditions

Unifying Causality and Psychology Gerald Young, 2016-05-17 This magistral treatise approaches the integration of psychology through the study of the multiple causes of normal and dysfunctional behavior Causality is the focal point reviewed across disciplines Using diverse models the book approaches unifying psychology as an ongoing project that integrates genetics experience evolution brain development change mechanisms and so on The book includes in its

integration free will epitomized as freedom in being It pinpoints the role of the self in causality and the freedom we have in determining our own behavior The book deals with disturbed behavior as well and tackles the DSM 5 approach to mental disorder and the etiology of psychopathology Young examines all these topics with a critical eye and gives many innovative ideas and models that will stimulate thinking on the topic of psychology and causality for decades to come It is truly integrative and original Among the topics covered Models and systems of causality of behavior Nature and nurture evolution and complexities Early adversity fetal programming and getting under the skin Free will in psychotherapy helping people believe Causality in psychological injury and law basics and critics A Neo Piagetian Neo Eriksonian 25 step sub stage model Unifying Causality and Psychology appeals to the disciplines of psychology psychiatry epidemiology philosophy neuroscience genetics law the social sciences and humanistic fields in general and other mental health fields Its level of writing makes it appropriate for graduate courses as well as researchers and practitioners

Adaptation and Phenotypic Plasticity to Climate Change Timothy Ravasi, Jennifer Marie Donelson, Jose M. Eirin-Lopez, Lisa N. S. Shama, 2022-05-05 **The Health of Populations** Jack James, 2015-11-02 The Health of Populations Beyond Medicine uses current research and in depth analysis to provide insights into the issues and challenges of population health a subject of increasing concern due largely to rapid population growth population aging rising costs and diminishing resources health inequality and the global rise in noncommunicable diseases Reducing the global burden of disease requires prevention of disease incidence which is achievable through reduction of exposure to primary behavioral and secondary biomedical risk factors The 15 chapters of the book are divided into three sections that focus on the science of health the harm of medicine and how to achieve optimal health By highlighting the benefits of preventing incidence of disease this book illustrates how biomedicine needs to be repositioned from being the dominant approach in healthcare to being an adjunct to behavioral legislative social and other preventive means for optimizing population health Heavily evidence based and thoroughly referenced with hundreds of scientific citations Contains a glossary as well as valuable tables illustrations and information boxes to further explain core content Provides fresh perspectives on issues related to rapid population growth population aging rising costs diminishing resources health inequality and more Carefully distills extensive tracts of information clarifies misunderstandings and rebuts myths with the ultimate goal of encouraging better understanding of the action needed to promote optimal health for all

Phenotypic Plasticity & Evolution David W. Pfennig, 2021-05-31 Phenotypic plasticity the ability of an individual organism to alter its features in direct response to a change in its environment is ubiquitous Understanding how and why this phenomenon exists is crucial because it unites all levels of biological inquiry This book brings together researchers who approach plasticity from diverse perspectives to explore new ideas and recent findings about the causes and consequences of plasticity Contributors also discuss such controversial topics as how plasticity shapes ecological and evolutionary processes whether specific plastic responses can be passed to offspring and whether plasticity has left an important imprint on the

history of life Importantly each chapter highlights key questions for future research Drawing on numerous studies of plasticity in natural populations of plants and animals this book aims to foster greater appreciation for this important but frequently misunderstood phenomenon Key Features Written in an accessible style with numerous illustrations including many in color Reviews the history of the study of plasticity including Darwin's views Most chapters conclude with recommendations for future research

Ecoepigenetics in Clonal and Inbreeding Plants: Transgenerational Adaptation and Environmental Variation Bi-Cheng Dong, Fei-Hai Yu, Sergio R. Roiloa, 2019-10-15 Clonality is widespread in plant species and clonal plants often have a broad geographic range and long lifespan Clonality can maintain high fitness in the short term but vegetative reproduction is commonly considered to preclude adaptation to changing conditions However an increasing body of empirical and theoretical evidence suggests that epigenetic modifications such as DNA methylation can provide an alternative to gene driven evolution through natural selection and allow clonal plants to maintain fitness in the long term To deepen our understanding of clonal ecology this collection of research papers and reviews focuses on how epigenetic regulation can encode phenotypic plasticity and contribute to the rapid adaptation of clonal plants to accelerating global and regional environmental changes

Ecosocial Theory, Embodied Truths, and the People's Health Nancy Krieger, 2021-09-17 Drawing on an array of novel examples such as workplace discrimination relationship abuse Jim Crow climate change and pesticides Nancy Krieger argues for a more expansive understanding of how humans biologically embody our societal and ecological contexts

Entangled Life Gillian Barker, Eric Desjardins, Trevor Pearce, 2013-09-05 This volume explores the interactions between organisms and their environments and how this entanglement is a fundamental aspect of all life It brings together the work and ideas of historians philosophers biologists and social scientists uniting a range of new perspectives methods and frameworks for examining and understanding the ways that organisms and environments interact The volume is organized into three main sections historical perspectives contested models and emerging frameworks The first section explores the origins of the modern idea of organism environment interaction in the mid nineteenth century and its development by later psychologists and anthropologists In the second section a variety of controversial models from mathematical representations of evolution to model organisms in medical research are discussed and reframed in light of recent questions about the interplay between organisms and environment The third section investigates several new ideas that have the potential to reshape key aspects of the biological and social sciences Populations of organisms evolve in response to changing environments bodies and minds depend on a wide array of circumstances for their development cultures create complex relationships with the natural world even as they alter it irrevocably The chapters in this volume share a commitment to unraveling the mysteries of this entangled life

Evolution "On Purpose" Peter A. Corning, Stuart A. Kauffman, Denis Noble, James A. Shapiro, Richard I. Vane-Wright, 2023-08-22 A unique exploration of teleonomy also known as evolved purposiveness as a major influence in evolution by a broad range of specialists in biology

and the philosophy of science The evolved purposiveness of living systems termed teleonomy by chronobiologist Colin Pittendrigh has been both a major outcome and causal factor in the history of life on Earth Many theorists have appreciated this over the years going back to Lamarck and even Darwin in the nineteenth century In the mid twentieth century however the complex dynamic process of evolution was simplified into the one way bottom up single gene centered paradigm widely known as the modern synthesis In *Evolution On Purpose* edited by Peter A Corning Stuart A Kauffman Denis Noble James A Shapiro Richard I Vane Wright and Addy Pross some twenty theorists attempt to modify this reductive approach by exploring in depth the different ways in which living systems have themselves shaped the course of evolution *Evolution On Purpose* puts forward a more inclusive theoretical synthesis that goes far beyond the underlying principles and assumptions of the modern synthesis to accommodate work since the 1950s in molecular genetics developmental biology epigenetic inheritance genomics multilevel selection niche construction physiology behavior biosemiotics chemical reaction theory and other fields In the view of the authors active biological processes are responsible for the direction and the rate of evolution Essays in this collection grapple with topics from the two way read write genome to cognition and decision making in plants to the niche construction activities of many organisms to the self making evolution of humankind As this collection compellingly shows and as bacterial geneticist James Shapiro emphasizes The capacity of living organisms to alter their own heredity is undeniable

From Ecology to Cancer Biology and Back Again Frederick R. Adler, Sarah R. Amend, Christopher J. Whelan, Etienne Baratchart, 2022-03-08

Textbook of Forest Science Asim Kumar Mandal, Abel Nicodemus, 2025-02-14 This textbook presents the latest knowledge on various disciplines of forestry science presented in 39 chapters Each chapter presents a reappraisal of theory and practice applications and future scope of subject area It is a single point reference for updated information on both traditional and contemporary areas of forestry Some of the disciplines covered in the book are biotechnology remote sensing forest certification forest management forest hydrology climate change plantation and urban forestry biodiversity and genetic resources conservation wildfire science seed science and quality seed production and ecosystem services The book primarily serves as an advanced textbook of forest science for students of forestry at all levels The science of forestry is receiving much more attention of the researchers policy makers and public than ever before because of growing awareness of vital importance of forests in amelioration of world environment This book is a comprehensive collection of existing and new methods including outcome and future possibilities of forest science This book benefits undergraduate and postgraduate students professional researchers teachers practicing foresters and policy planners The book also encourages the public to understand the relevance of forest science to overcome the contemporary economic and environmental challenges

Signs in the Dust Nathan Lyons, 2019-02-28 Modern thought is characterized by a dichotomy of meaningful culture and unmeaning nature *Signs in the Dust* uses medieval semiotics to develop a new theory of nature and culture that resists this familiar picture of things Through readings of Thomas Aquinas Nicholas of Cusa and John

Poinsot John of St Thomas it offers a semiotic analysis of human culture in both its anthropological breadth as an enterprise of creaturely sign making and its theological height as a finite participation in the Trinity which can be understood as an absolute cultural nature Signs in the Dust then extends this account of human culture backwards into the natural depth of biological and physical nature It puts the biosemiotics of its medieval sources along with Félix Ravaisson's philosophy of habit into dialogue with the Extended Evolutionary Synthesis that is emerging in contemporary biology to show how all living things participate in semiosis so that that a cultural dimension is present through the whole order of nature and the whole of natural history It also retrieves Aquinas doctrine of intentions in the medium to show how signification can be attributed in a diminished way to even inanimate nature with the ontological implication that being as such should be reconceived in semiotic terms The phenomena of human culture are therefore to be understood not as breaks with a meaningless nature but instead as heightenings and deepenings of natural movements of meaning that long precede and far exceed us Against the modern divorce of nature and culture Signs in the Dust argues that culture is natural and nature is cultural through and through

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