

Cultural Phylogenetics Concepts And Applications In Archaeology Interdisciplinary Evolution Research

Current Topics in Developmental Biology provides a comprehensive survey of the major topics in the field of developmental biology. These volumes are valuable to researchers in animal and plant development, as well as to students and professionals who want an introduction to cellular and molecular mechanisms of development. The series has recently passed its 30-year mark, making it the longest-running forum for contemporary issues in developmental biology. Includes many descriptive figures Topics covered include the the development of synovial joints, sexually differentiated behavior, mapping cell fate, and more Latest volume in the series that covers six reviews in more than 220 pages

The definitive guide for identifying fungi from clinical specimens Medically Important Fungi will expand your knowledge and support your work by: Providing detailed descriptions of the major mycoses as viewed in patients' specimens by direct microscopic examination of stained slides Offering a logical step-by-step process for identification of cultured organisms, utilizing detailed descriptions, images, pointers on organisms' similarities and distinctions, and selected references for further information Covering nearly 150 of the fungi most commonly encountered in the clinical mycology laboratory Presenting details on each organism's

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pathogenicity, growth characteristics, relevant biochemical reactions, and microscopic morphology, illustrated with photomicrographs, Dr. Larone's unique and elegant drawings, and color photos of colony morphology and various test results Explaining the current changes in fungal taxonomy and nomenclature that are due to information acquired through molecular taxonomic studies of evolutionary fungal relationships Providing basic information on molecular diagnostic methods, e.g., PCR amplification, nucleic acid sequencing, MALDI-TOF mass spectrometry, and other commercial platforms Including an extensive section of easy-to-follow lab protocols, a comprehensive list of media and stain procedures, guidance on collection and preparation of patient specimens, and an illustrated glossary With Larone's Medically Important Fungi: A Guide to Identification, both novices and experienced professionals in clinical microbiology laboratories can continue to confidently identify commonly encountered fungi.

Evolutionary Research in Archaeology seeks to provide a comprehensive overview of contemporary evolutionary research in archaeology. The book will provide a single source for introduction and overview of basic and advanced evolutionary concepts and research programs in archaeology. Content will be organized around four areas of critical research including microevolutionary and macroevolutionary process, human ecology studies (evolutionary ecology, demography, and niche construction), and evolutionary cognitive archaeology. Authors of individual chapters will address theoretical

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foundations, history of research, contemporary contributions and debates, and implications for the future for their respective topics. As appropriate, authors present or discuss short empirical case studies to illustrate key arguments. ?

This workshop questioned the reliability of pottery as crisis indicator within the archaeological data set. More particularly, following the perspective of archaeological and anthropological research that assesses pottery technology as a social product, there is an interest in addressing the social and cultural aspects of technological change...

This book explores the potential and challenges of implementing evolutionary phylogenetic methods in archaeological research, by discussing key concepts and presenting concrete applications of these approaches. The volume is divided into two parts: The first covers the theoretical and conceptual implications of using evolution-based models in the sociocultural domain, illustrates the sorts of questions that these methods can help answer, and invites the reader to reflect on the opportunities and limitations of these perspectives. The second part comprises case studies that address relevant empirical issues, such as inferring patterns and rates of cultural transmission, detecting selective pressures in cultural evolution, and explaining the nature of cultural variation. This book will appeal to archaeologists interested in applying evolutionary thinking and inferential methods to their field, and to anyone interested in cultural evolution studies.

Memetics is the name commonly given to the study of

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memes - a term originally coined by Richard Dawkins to describe small inherited elements of human culture. Memes are the cultural equivalent of DNA genes - and memetics is the cultural equivalent of genetics. Memes have become ubiquitous in the modern world - but there has been relatively little proper scientific study of how they arise, spread and change - apparently due to turf wars within the social sciences and misguided resistance to Darwinian explanations being applied to human behaviour. However, with the modern explosion of internet memes, I think this is bound to change. With memes penetrating into every mass media channel, and with major companies riding on their coat tails for marketing purposes, social scientists will surely not be able to keep the subject at arm's length for much longer. This will be good - because an understanding of memes is important. Memes are important for marketing and advertising. They are important for defending against marketing and advertising. They are important for understanding and managing your own mind. They are important for understanding science, politics, religion, causes, propaganda and popular culture. Memetics is important for understanding the origin and evolution of modern humans. It provides insight into the rise of farming, science, industry, technology and machines. It is important for understanding the future of technological change and human evolution. This book covers the basic concepts of memetics, giving an overview of its history, development, applications and the controversy that has been associated with it.

The Encyclopedia of Insects is a comprehensive work

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devoted to all aspects of insects, including their anatomy, physiology, evolution, behavior, reproduction, ecology, and disease, as well as issues of exploitation, conservation, and management. Articles provide definitive facts about all insects from aphids, beetles and butterflies to weevils and yellowjackets. Insects are beautiful and dreadful, ravenous pests and devastating disease vectors, resilient and resistant to eradication, and the source of great benefit and great loss for civilization. Important for ecosystem health, they have influenced the evolution of other life forms on our planet including humans. Anyone interested in insects, from university professors and researchers to high school students preparing a report, will find *The Encyclopedia of Insects* an indispensable volume for insect information. *

- * An unprecedented collection in 1,276 pages covering every important aspect of insects
- * Presents 270 original articles, thoroughly peer reviewed and edited for consistency
- * Features 1,000 figures and tables, including 500 full-color photographs
- * Includes the latest information contributed by 250 experts in 17 countries
- * Designed to save research time with a full glossary, 1,700 cross-references, and 3,000 bibliographic entries

A fresh examination of the past successes of natural products as medicines and their new future from both conventional and new technologies. High-performance liquid chromatography profiling, combinatorial synthesis, genomics, proteomics, DNA shuffling, bioinformatics, and genetic manipulation all now make it possible to rapidly evaluate the activities of extracts as well as purified components derived from microbes, plants, and

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marine organisms. The authors apply these methods to new natural product drug discoveries, to microbial diversity, to specific groups of products (Chinese herbal drugs, antitumor drugs from microbes and plants, terpenoids, and arsenic compounds), and to specific sources (the sea, rainforest, and endophytes). These new opportunities show how research and development trends in the pharmaceutical industry can advance to include both synthetic compounds and natural products, and how this paradigm shift can be more productive and efficacious.

This book discusses microbial diversity in various habitats and environments, its role in ecosystem maintenance, and its potential applications (e.g. biofertilizers, biocatalysts, antibiotics, other bioactive compounds, exopolysaccharides etc.). The respective chapters, all contributed by renowned experts, offer cutting-edge information in the fields of microbial ecology and biogeography. The book explains the reasons behind the occurrence of various biogeographies and highlights recent tools (e.g. metagenomics) that can aid in biogeography studies by providing information on nucleic acid sequence data, thereby directly identifying microorganisms in various habitats and environments. In turn, the book describes how human intervention results in depletion of biodiversity, and how numerous hotspots are now losing their endemic biodiversity, resulting in the loss

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of many ecologically important microorganisms. In closing, the book underscores the importance of microbial diversity for sustainable ecosystems.

Handbook of Pharmacogenomics and Stratified Medicine is a comprehensive resource to understand this rapidly advancing field aiming to deliver the right drug at the right dose to the right patient at the right time. It is designed to provide a detailed, but accessible review of the entire field from basic principles to applications in various diseases. The chapters are written by international experts to allow readers from a wide variety of backgrounds, clinical and non-clinical (basic geneticists, pharmacologists, clinicians, trialists, industry personnel, ethicists) to understand the principles underpinning the progress in this area, the successes, failures and the challenges ahead. To be accessible to the widest range of readers, the clinical application section introduces the disease process, existing therapies, followed by pharmacogenomics and stratified medicine details. Medicine is the cornerstone of modern therapeutics prescribed on the basis that its benefit should outweigh its risk. It is well known that people respond differently to medications and in many cases the risk-benefit ratio for a particular drug may be a gray area. The last decade has seen a revolution in genomics both in terms of technological innovation and discovering genetic markers associated with disease. In parallel there has been

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steady progress in trying to make medicines safer and tailored to the individual. This has occurred across the whole spectrum of medicine, some more than others. In addition there is burgeoning interest from the pharmaceutical industry to leverage pharmacogenomics for more effective and efficient clinical drug development. Provides clinical and non-clinical researchers with practical information normally beyond their usual areas of research or expertise Includes an basic principles section explaining concepts of basic genetics, genetic epidemiology, bioinformatics, pharmacokinetics and pharmacodynamics Covers newer technologies—next generation sequencing, proteomics, metabolomics Provides information on animal models, lymphoblastoid cell lines, stem cells Provides detailed chapters on a wide range of disease conditions, implementation and regulatory issues Includes chapters on the global implications of pharmacogenomics

The diversity, ecological role and biotechnological applications of marine fungi have been addressed in numerous scientific publications in the last few years. This enormous spurt of information has led to a dire need among students and professionals alike for a source, which contains comprehensive reviews of various aspects of marine fungi. This book addresses this need, especially since it is written by reputed marine mycologists. The latest information

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on topics including molecular taxonomy and phylogeny, ecology of fungi in different marine habitats such as deep sea, corals, dead- sea, fungi in extreme marine environments and their biotechnological applications is reviewed. The book presents a comprehensive source of information and analysis aimed at marine fungi for researchers, teachers and students of marine mycology.

The books (LNCS 6643 and 6644) constitute the refereed proceedings of the 8th European Semantic Web Conference, ESWC 2011, held in Heraklion, Crete, Greece, in May/June 2011. The 57 revised full papers of the research track presented together with 7 PhD symposium papers and 14 demo papers were carefully reviewed and selected from 291 submissions. The papers are organized in topical sections on digital libraries track; inductive and probabilistic approaches track; linked open data track; mobile web track; natural language processing track; ontologies track; and reasoning track (part I); semantic data management track; semantic web in use track; sensor web track; software, services, processes and cloud computing track; social web and web science track; demo track, PhD symposium (part II).

Trichoderma spp. are biotechnologically significant fungi, being widely used both in agriculture and industry. These microbes are also a potential drug source of clinical importance. In recent years, driven

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by advances in genetics and genomics, research on these fungi have opened new avenues for its varied applications. Divided into three sections, covering taxonomy and physiology, interactions with plants and applications and significance, this book also discusses topics that have seen rapid developments in the recent years. Various aspects of Trichoderma like molecular taxonomy, sexual and asexual developments, secondary metabolism, beneficial interactions with plants, applications as cell factories and harmful interactions with humans are discussed. This book, thus, hopes to be an essential ready reference for researchers, students and people from industry as well.

A world of categories devoid of spirit waits for life to return. Saul Bellow, Humboldt's Gift

The stock-in-trade of communicating hypotheses about the historical path of evolution is a graphical representation called a phylogenetic tree. In most such graphics, pairs of branches diverge from other branches, successively marching across abstract time toward the present. To each branch is tied a tag with a name, a binominal symbol that functions as does the name given to an individual human being. On phylogenetic trees the names symbolize species. What exactly do these names signify? What kind of information is communicated when we claim to have knowledge of the following types? "Tetonia mathewzi was ancestral to Pseudotetonia

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ambiguous. " "The sample of fossils attributed to Homo habilis is too variable to contain only one species. " "Interbreeding populations of savanna baboons all belong to Papio anubis. " "Hylobates lar and H. pileatus interbreed in zones of geographic overlap. " While there is nearly universal agreement that the notion of the species is fundamental to our understanding of how evolution works, there is a very wide range of opinion on the conceptual content and meaning of such particular statements regarding species. This is because, oddly enough, evolutionary biologists are quite far from agreement on what a species is, how it attains this status, and what role it plays in evolution over the long term.

The book brings a completely different perspective than available books by combining the information gained from the human genome with that derived from parallel metagenomic studies, and new results from investigating the effects of these microbes on the host immune system. Although there are a number of books that focus on the human genome that are currently available, there are no books that bring to the forefront the mix of the human genome and the genomes and metagenomes of the microbial species that live within and on us.

This reference book includes 24 chapters written by a group of experts in the different fields of microfungi and cover a broad range of topics on microfungi. It provides the most updated information on the latest

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development in systematics and taxonomy of microfungi, new techniques which were developed in the last ten years and their application in microfungi research. After the International Code of Nomenclature for algae, fungi, and plants (Melbourne Code) was adopted by the Eighteenth International Botanical Congress Melbourne, Australia, July 2011, it has had a profound impact on mycology and its research. Fungal nomenclature changes and its significance to fungal taxonomy and naming of microfungi in the future is discussed in detail. Since dual names system for fungi developing both sexual and asexual states, and fungi developing only asexual state is no longer available, the first five chapters will clarify some confusion and provides perspective views on the direction for future research. The next nine chapters cover microfungi and their ecological roles or functions in the different habitats (air, indoor, aquatic, marine, plants, soils, etc). The remaining 13 chapters cover the relationship of microfungi and humans (good and bad) and usage or application microfungi in different industries, such as food, agriculture, forestry, green technology, pharmaceuticals, and medicine, as well as in our daily life. The book bridges the gap between basic mycological research and applied mycology and provide readers a unique set of information and knowledge of microfungi generated from multiple angles in different fields of mycology.

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This book will appeal to archaeologists interested in applying evolutionary thinking and inferential methods to their field, and to anyone interested in cultural evolution studies. This book explores the potential and challenges of implementing evolutionary phylogenetic methods in archaeological research, by discussing key concepts and presenting concrete applications of these approaches. Cultural Phylogenetics, assembles seven articles dealing both theoretically and practically with the prospects and challenges of phylogenetic methods in archaeology. I consider the book to be an interesting contribution, worth being read by everyone who is interested in quantitative methods applied to historical sciences.

L'Annuario della Scuola Archeologica di Atene e delle Missioni Italiane in Oriente è pubblicato dal 1914. Presenta articoli originali e di sintesi sull'arte, l'archeologia, l'architettura, la topografia, la storia, le religioni, l'antropologia del mondo antico, l'epigrafia e il diritto. L'interesse è rivolto alla Grecia e alle aree della grecità attraverso il tempo, dalla preistoria all'età bizantina e oltre, nonché alle interazioni con l'Oriente, l'Africa e l'Europa continentale. L'Annuario è composto da tre sezioni: Saggi, Scavi e Ricerche e Atti della Scuola 2019, a cura di Emanuele Papi. Gli articoli vengono approvati dal Comitato Editoriale e da due valutatori anonimi. I contributi sono pubblicati in una delle seguenti lingue: italiano, greco, inglese, spagnolo e tedesco, con riassunti in italiano, greco e inglese.

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Cultural Phylogenetics Concepts and Applications in Archaeology

Much of what we are comes from our ancestors. Through cultural and biological inheritance mechanisms, our genetic composition, instructions for constructing artifacts, the structure and content of languages, and rules for behavior are passed from parents to children and from individual to individual. Mapping Our Ancestors demonstrates how various genealogical or "phylogenetic" methods can be used both to answer questions about human history and to build evolutionary explanations for the shape of history.

Anthropologists are increasingly turning to quantitative phylogenetic methods. These methods depend on the transmission of information regardless of mode and as such are applicable to many anthropological questions. In this way, phylogenetic approaches have the potential for building bridges among the various subdisciplines of anthropology; an exciting prospect indeed. The structure of Mapping Our Ancestors reflects the editors' goal of developing a common understanding of the methods and conditions under which ancestral relations can be derived in a range of data classes of interest to anthropologists. Specifically, this volume explores the degree to which patterns of ancestry can be determined from artifactual, genetic, linguistic, and behavioral data and how processes such as selection, transmission, and

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geography impact the results of phylogenetic analyses.

Mapping Our Ancestors provides a solid demonstration of the potential of phylogenetic methods for studying the evolutionary history of human populations using a variety of data sources and thus helps explain how cultural material, language, and biology came to be as they are. Carl P. Lipo is assistant professor of anthropology at California State University in Long Beach. Michael O'Brien is professor of anthropology and director of the Museum of Anthropology at the University of Missouri. Mark Collard is assistant professor of anthropology at the University of British Columbia, Stephen J. Shennan is a professor and director of the Institute of Archaeology at the University College London. Niles Eldredge is a curator in the department of invertebrates at the American Museum of Natural History, and adjunct professor at the City University of New York.

Social Complexity and Complex Systems in Archaeology turns to complex systems thinking in search of a suitable framework to explore social complexity in Archaeology. Social complexity in archaeology is commonly related to properties of complex societies such as states, as opposed to so-called simple societies such as tribes or chiefdoms. These conceptualisations of complexity are ultimately rooted in Eurocentric perspectives with problematic implications for the field of archaeology. This book provides an in-depth conceptualisation of social complexity as the core concept in archaeological and interdisciplinary studies of the past, integrating approaches from complex systems thinking, archaeological theory, social practice theory, and sustainability and resilience science. The book covers a long-term perspective of social change and stability, tracing the full cycle of complexity trajectories, from emergence and development to collapse, regeneration and transformation of communities and societies. It offers a broad vision on social

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complexity as a core concept for the present and future development of archaeology. This book is intended to be a valuable resource for students and scholars in the field of archaeology and related disciplines such as history, anthropology, sociology, as well as the natural sciences studying human-environment interactions in the past.

Travellers in Time re-evaluates the extent to which the earliest Mediterranean civilizations were affected by population movement. It critiques both traditional culture-history-grounded notions of movement in the region as straightforwardly transformative, and the processual, systemic models that have more recently replaced this view, arguing that newer scholarship too often pays limited attention to the specific encounters, experiences and agents involved in travel. By assessing a broad range of recent archaeological and ancient textual data from the Aegean and central and east Mediterranean via five comprehensive studies, this book makes a compelling case for rethinking issues such as identity, agency, materiality and experience through an understanding of movement as transformative. This innovative and timely study will be of interest to advanced undergraduates, postgraduate students and scholars in the fields of Aegean/Mediterranean prehistory and Classical archaeology, as well as anyone interested in ancient Aegean and Mediterranean culture.

Natural kinds is a widely used and pivotal concept in philosophy – the idea being that the classifications and taxonomies employed by science correspond to the real kinds in nature. Natural kinds are often opposed to the idea of kinds in the human and social sciences, which are typically seen as social constructions, characterised by changing norms and resisting scientific reduction. Yet human beings are also a subject of scientific study. Does this mean humans fall into corresponding kinds of their own? In *The Epistemology and*

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Morality of Human Kinds Marion Godman defends the idea of human kinds. She first examines the scientific use and nature of human kinds, considering the arguments of key philosophers whose work bears upon human kinds, such as Ian Hacking, John Searle, Richard Boyd and Ruth Millikan. Using the examples of gender, ethnic minorities and Buddhism she then argues that human kinds are a result of ongoing historical reproduction, chiefly due to pre-existing cultural models and social learning. Her novel argument shifts the focus away from the reductionism characteristic of research about human kinds. Instead, she argues that they are "multiply projectable" and deserving of scientific study not in spite of, but because of their role in explaining our identity, injustice and the emergence of group rights. Much of what we are comes from our ancestors. Through cultural and biological inheritance mechanisms, our genetic composition, instructions for constructing artifacts, the structure and content of languages, and rules for behavior are passed from parents to children and from individual to individual. Mapping Our Ancestors demonstrates how various genealogical or "phylogenetic" methods can be used both to answer questions about human history and to build evolutionary explanations for the shape of history. Anthropologists are increasingly turning to quantitative phylogenetic methods. These methods depend on the transmission of information regardless of mode and as such are applicable to many anthropological questions. In this way, phylogenetic approaches have the potential for building bridges among the various subdisciplines of anthropology; an exciting prospect indeed. The structure of Mapping Our Ancestors reflects the editors' goal of developing a common understanding of the methods and conditions under which ancestral relations can be derived in a range of data classes of interest to anthropologists. Specifically, this volume

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Mapping Our Ancestors provides a solid demonstration of the potential of phylogenetic methods for studying the evolutionary history of human populations using a variety of data sources and thus helps explain how cultural material, language, and biology came to be as they are.

Evolutiebioloog Menno Schilthuizen laat op wervelende wijze zien wat de invloed is van toenemende verstedelijking op de evolutie van mens, dier en natuur In 'Darwin in de stad' laat bioloog en hoogleraar Menno Schilthuizen zien hoe verstedelijking de evolutie van de natuur en dieren stuurt. In de toekomst leeft immers driekwart van de mensheid in de stad en gaat verstedelijkte omgeving steeds meer ruimte innemen. Een groot deel van de rest van het aardoppervlak is nodig voor landbouw, dus waar gaat de natuur dan naartoe? Naar de stad, toont Schilthuizen aan in dit wonderlijke en verrassende boek. En wanneer de natuur naar de stad gaat, neemt de evolutie een aparte wending. Stadsdieren worden brutaler en vindingrijker, stadsduiven ontwikkelen een detox-verenkleed en onkruid op straat krijgt een heel eigen type zaden. Dankzij evolutionaire aanpassing die zich voltrekt met snelheden waar Darwin niet van had durven dromen, raken mens en stadsnatuur steeds beter op elkaar ingespeeld en wordt een nieuw hoofdstuk in de evolutie van het leven op aarde ingeluid. Een hoofdstuk waarin, helaas, veel biodiversiteit verdwijnt, maar ook splinternieuwe dier- en plantensoorten het licht zullen zien.

Like previous series entries, this volume covers rock art research and management all over the world over a 5-year period, in this case 2015-19. Contributions once again show the wide variety of approaches that have been taken in

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different parts of the world and reflect the expansion and diversification of perspectives and research questions.

Rhizoctonia Species: Taxonomy, Molecular Biology, Ecology, Pathology and Control, written by the world's most reputable experts in their respective fields of *Rhizoctonia* research, summarizes years of research in the various aspects of the ubiquitous complex group of soil-borne fungi belonging to the anamorph genus *Rhizoctonia*. Species of *Rhizoctonia* worldwide cause economically important diseases on most of the world's important plants such as cereals, potato, cotton, sugarbeet, vegetables, ornamentals and trees in nurseries. The subject reviews covered in the book include classic as well as modern approaches to *Rhizoctonia* research in: Taxonomy and Evolution, Genetics and Pathogenicity, Plant-*Rhizoctonia* Interactions, Ecology, Population and Disease Dynamics, Disease Occurrence and Management in Various Crops, Cultural Control, Biological Control, Germplasm for Resistance, Chemical and Integrated Control Strategies. It aims to be the standard reference source book on *Rhizoctonia* for the next decade or more, just as Parmeter et al. (1970) has been in the past. It will be an important publication for *Rhizoctonia* investigators, plant pathologists, students, extension specialists, crop producers and companies dealing with plant disease control.

Explores the impact and inconsistencies of human evolution upon human nature, examining the physical, intellectual, cultural, and sexual aspects of human development and behaviors in the light of current scientific theory.

Methods in microbial systematics have developed and changed significantly in the last 40 years. This has resulted in considerable change in both the defining microbial species and the methods required to make reliable identifications. Developments in information technology have enabled ready access to vast amounts of new and historic data online.

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Establishing both the relevance, and the most appropriate use, of this data is now a major consideration when undertaking identifications and systematic research. This book provides some insights into how current methods and resources are being used in microbial systematics, together with some thoughts and suggestions as to how both methodologies and concepts may develop in the future. Widens traditional concepts of forensic science to include humanitarian, social, and cultural aspects Using the preservation of the dignity of the deceased as its foundation, Forensic Science and Humanitarian Action: Interacting with the Dead and the Living is a unique examination of the applications of humanitarian forensic science. Spanning two comprehensive volumes, the text is sufficiently detailed for forensic practitioners, yet accessible enough for non-specialists, and discusses both the latest technologies and real-world interactions. Arranged into five sections, this book addresses the 'management of the dead' across five major areas in humanitarian forensic science. Volume One presents the first three of these areas: History, Theory, Practice, and Legal Foundation; Basic Forensic Information to Trace Missing Persons; and Stable Isotopes Forensics. Topics covered include: Protection of The Missing and the Dead Under International Law Social, Cultural and Religious Factors in Humanitarian Forensic Science Posthumous Dignity and the Importance in Returning Remains of the Deceased The New Disappeared – Migration and Forensic Science Stable Isotope Analysis in Forensic Anthropology Volume Two covers two further areas of interest: DNA Analysis and the Forensic Identification Process. It concludes with a comprehensive set of case studies focused on identifying the deceased, and finding missing persons from around the globe, including: Forensic Human Identification from an Australian Perspective Skeletal Remains and

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Identification Processing at the FBI Migrant Deaths along the Texas/Mexico Border Humanitarian Work in Cyprus by The Committee on Missing Persons (CMP) Volcán De Fuego Eruption – Natural Disaster Response from Guatemala Drawing upon a wide range of contributions from respected academics working in the field, Forensic Science and Humanitarian Action is a unique reference for forensic practitioners, communities of humanitarian workers, human rights defenders, and government and non-governmental officials.

Explore the latest research in anthropological genetics and understand the genome's role in cultural and social development A Companion to Anthropological Genetics illustrates the role of genetic analysis in advancing the modern study of human origins, populations, evolution, and diversity. Broad in scope, this essential reference work establishes and explores the relationship between genetic research and the major questions of anthropological study. Through contributions by leading researchers, this collection explores molecular genetics and evolutionary mechanisms in the context of macro- and microevolution, paleontology, phylogeny, diet, and disease, with detailed explanations of quantitative methods, including coalescent and approximate Bayesian computation. With an emphasis on contextualizing new and developing genetic research within anthropological frameworks, this text offers critical perspective on the conditions of molecular evolution that accompany cultural and social transformation, while also addressing critical disciplinary questions, such as the ethical issues surrounding ancestry testing and community-based genetic research. Acts as an essential reference on the contributions of genetic science to the field of anthropology Features new work by leading researchers of the field Explores the evolution of immunity, including the genetics and epigenetics of

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pathogens, chronic illness, and disease resistance Provides in-depth examination of mutation and dietary adaptation, including AMY1, lactase persistence, and sensory polymorphisms Explains essential quantitative and phylogenetic methods for aligning genomic analysis with evolution and migration time scales Offering thorough coverage on leading questions and developing research, A Companion to Anthropological Genetics is a comprehensive resource for students and scholars.

The Darwinian theory of evolution is itself evolving and this book presents the details of the core of modern Darwinism and its latest developmental directions. The authors present current scientific work addressing theoretical problems and challenges in four sections, beginning with the concepts of evolution theory, its processes of variation, heredity, selection, adaptation and function, and its patterns of character, species, descent and life. The second part of this book scrutinizes Darwinism in the philosophy of science and its usefulness in understanding ecosystems, whilst the third section deals with its application in disciplines beyond the biological sciences, including evolutionary psychology and evolutionary economics, Darwinian morality and phylolinguistics. The final section addresses anti-Darwinism, the creationist view and issues around teaching evolution in secondary schools. The reader learns how current experimental biology is opening important perspectives on the sources of variation,

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and thus of the very power of natural selection. This work examines numerous examples of the extension of the principle of natural selection and provides the opportunity to critically reflect on a rich theory, on the methodological rigour that presides in its extensions and exportations, and on the necessity to measure its advantages and also its limits. Scholars interested in modern Darwinism and scientific research, its concepts, research programs and controversies will find this book an excellent read, and those considering how Darwinism might evolve, how it can apply to the human sciences and other disciplines beyond its origins will find it particularly valuable. Originally produced in French (*Les Mondes Darwiniens*), the scope and usefulness of the book have led to the production of this English text, to reach a wider audience. This book is a milestone in the impressive penetration by Francophone scholars into the world of Darwinian science, its historiography and philosophy over the last two decades. Alex Rosenberg, R. Taylor Cole Professor of Philosophy, Duke University Until now this useful and comprehensive handbook has only been available to francophones. Thanks to this invaluable new translation, this collection of insightful and original essays can reach the global audience it deserves. Tim Lewens, University of Cambridge

La femme est-elle l'avenir de l'homme ? Au présent, elle a du mal à se faire entendre sans

élever la voix... Qu'en était-il dans le passé ?

Paléoanthropologue, Pascal Picq enquête ici sur la femme des origines. Dans ce livre, il ne se contente pas de présenter ce que l'on sait des rapports entre hommes et femmes dans les premières sociétés humaines, il entend placer l'histoire et la préhistoire humaines dans la perspective de l'évolution. Pour embrasser le passé évolutif, il faut élargir le regard : explorer le passé, mais aussi comparer l'humain à ses plus proches cousins, singes et grands singes. Car nos points communs avec les espèces apparentées ne sont pas seulement biologiques, ils concernent également les comportements et la vie sociale, et jusqu'aux rapports entre les sexes. La coercition envers les femmes est-elle une fatalité évolutive ou une invention culturelle ? Comment s'est instaurée la domination masculine, qui semble être devenue la règle pour notre espèce ? Un livre qui bouscule les idées reçues pour penser autrement l'évolution des femmes et leur rôle dans l'évolution. ?Pascal Picq est paléoanthropologue, maître de conférences au Collège de France. Il a écrit notamment *Au commencement était l'homme, Lucy et l'obscurantisme, De Darwin à Lévi-Strauss* et, plus récemment, *L'Intelligence artificielle et les Chimpanzés du futur*, qui sont de très grands succès.

Most projects in Landscape Ecology, at some point, define a species-habitat association. These models

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are inherently spatial, dealing with landscapes and their configurations. Whether coding behavioral rules for dispersal of simulated organisms through simulated landscapes, or designing the sampling extent of field surveys and experiments in real landscapes, landscape ecologists must make assumptions about how organisms experience and utilize the landscape. These convenient working postulates allow modelers to project the model in time and space, yet rarely are they explicitly considered. The early years of landscape ecology necessarily focused on the evolution of effective data sources, metrics, and statistical approaches that could truly capture the spatial and temporal patterns and processes of interest. Now that these tools are well established, we reflect on the ecological theories that underpin the assumptions commonly made during species distribution modeling and mapping. This is crucial for applying models to questions of global sustainability. Due to the inherent use of GIS for much of this kind of research, and as several authors' research involves the production of multicolored map figures, there would be an 8-page color insert. Additional color figures could be made available through a digital archive, or by cost contributions of the chapter authors. Where applicable, would be relevant chapters' GIS data and model code available through a digital archive. The practice of data and code sharing is becoming

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standard in GIS studies, is an inherent method of this book, and will serve to add additional research value to the book for both academic and practitioner audiences.

"Words are our tools, and, as a minimum, we should use clean tools. We should know what we mean and what we do not, and we must forearm ourselves against the traps that language sets us." -- The Need for Precise Terminology, Austin (1957, 7–8) It follows that, for effective and efficient communication, people should have, or at least understand, the same precise terminology. Such terminology is crucial for the advancement of basic, theoretical, and applied science, yet too often there is ambiguity between scientific and common definitions and even discrepancies in the scientific literature. Providing a common ground and platform for precise scientific communication in animal behavior, ecology, evolution, and related branches of biology, *Animal Behavior Desk Reference, A Dictionary of Behavior, Ecology, and Evolution*, Third Edition contains more than 800 new terms and definitions, 48 new figures, and thousands of additions and improvements. Using a dictionary format to present definitions in a standard, easily accessible manner, the book's main body emphasizes conceptual terms, rather than anatomical parts or taxonomic terms, and focuses on nouns, rather than verbs or adjectives. Term hierarchies are handled with bulleted entries and

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terms with multiple definitions are included as superscripted entries. All sources are cited and most are paraphrased to conform to uniform style and length. The dictionary also includes nontechnical and obsolete terms, synonyms, pronunciations, and notes and comments, as well as etymologies, term originators, and related facts. Appendices address organism names, organizations, and databases. Devoted to the precise and correct use of scientific language, this third edition of a bestselling standard enables students and scientists alike to communicate their findings and promote the efficient advancement of science.

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