GENETICS AND THE SEARCH FOR MODERN HUMAN ORIGINS



JOHN H. RELETHFORD

Genetics And The Search For Modern Human Origins

Naomi Zack

Genetics And The Search For Modern Human Origins:

Genetics and the Search for Modern Human Origins John H. Relethford, 2001-04-20 A major debate in anthropology concerns the relationship between anatomically modern humans and earlier archaic humans including the Neandertals What was the origin of modern humans Did we arise as a new species in Africa 200 000 years ago and then replace archaic human populations outside of Africa or are our origins part of a single evolving lineage extending back over the past two million years In addition to fossil and archaeological evidence anthropologists have increasingly turned to using genetic data on living populations to address this question Patterns of genetic variation within and between living human populations are felt to contain clues as to our species evolutionary history and provide a reflection of the past This book reviews the modern human origins debate focusing on the genetic evidence relating to our origins including genetic variation in living humans and recent discoveries of ancient DNA from fossil specimens Following a brief introduction to the problem and a review of evolutionary genetics the book focuses on gene trees and the search for a common ancestor genetic diversity within populations genetic distances between populations the use of genetic data to reconstruct ancient demography and Neandertal DNA The main point of the text is that although the genetic data are often compatible with a replacement model they are also compatible with some multiregional models. The concluding chapter makes the case that modern human origins are mostly but not exclusively out of Africa Ancient Pakistan - An Archaeological History Mukhtar Ahmed, 2014-05-29 Ancient Pakistan An Archaeological History deals with the prehistory of Pakistan from the Stone Age to the end of the Indus Civilization This particular volume The Stone Age concerns with the first appearance of man in northern Pakistan more than a million years ago and traces his cultural history up to the emergence of agriculture and sedentary living in this region The book is written for students of ancient history anthropology and archaeology The material is generously illustrated with a large number of maps tables drawings and colored photographs Each Section is provided with extensive references to the text and a comprehensive bibliography is provided for those who want to dig deeper into the subject Although the book primarily deals with the Greater Indus Valley its scope is much wider the subject has been discussed in context with the paleolithic of India Central Asia and Iran The story of human evolution provides a constant background Southern Asia. Australia, and the Search for Human Origins Robin Dennell, Martin Porr, 2014-02-24 This is the first book to focus on the role of Southern Asia and Australia in our understanding of modern human origins and the expansion of Homo sapiens between East Africa and Australia before 30 000 years ago With contributions from leading experts that take into account the latest archaeological evidence from India and Southeast Asia this volume critically reviews current models of the timing and character of the spread of modern humans out of Africa It also demonstrates that the evidence from Australasia should receive much wider and more serious consideration in its own right if we want to understand how our species achieved its global distribution Critically examining the Out of Africa model this book emphasises the context and variability of the global

evidence in the search for human origins Climate Change and the Course of Global History John L. Brooke, 2014-03-17 The first global study by a historian to fully integrate the earth system approach of the new climate science with the material history of humanity Handbook of Paleoanthropology Winfried Henke, Ian Tattersall.2007-05-10 This 3 volume handbook brings together contributions by the world s leading specialists that reflect the broad spectrum of modern palaeoanthropology thus presenting an indispensable resource for professionals and students alike Vol 1 reviews principles methods and approaches recounting recent advances and state of the art knowledge in phylogenetic analysis palaeoecology and evolutionary theory and philosophy Vol 2 examines primate origins evolution behaviour and adaptive variety emphasizing integration of fossil data with contemporary knowledge of the behaviour and ecology of living primates in natural environments Vol 3 deals with fossil and molecular evidence for the evolution of Homo sapiens and its fossil relatives Philosophy of Science and Race Naomi Zack, 2014-04-23 First published in 2003 In this concisely argued short new book well known philosopher Naomi Zack explores the scientific and philosophical problems in applying a biological conception of race to human beings Through the systematic analysis of up to date data and conclusions in population genetics transmission genetics and biological anthropology Zack provides a comprehensive conceptual account of how race in the ordinary sense has no basis in science Her book combats our everyday understanding of race as a scientifically supported taxonomy of human beings and in conclusion challenges us to be clear about what we mean by race and what it would require to remedy racism Reflections Of Our Past John H Relethford, 2018-03-09 Where did modern humans come from and how important are the biological differences among us Are we descended from Neanderthals How many races of people are there Were Native Americans the first settlers of the New World How can we tell if Thomas Jefferson had a child with Sally Hemings Through an engaging examination of issues such as these and using non technical language Reflections of Our Past shows how anthropologists use genetic information to test theories and define possible answers to fundamental questions in human history By looking at genetic variation in the world today we can reconstruct the recent and remote events and processes that created the variation we see providing a fascinating reflection of our genetic past Reflections of Our Past is a W W Howells Book Prize Winner and Choice Outstanding Academic Title **Evolution Of** Language, The - Proceedings Of The 6th International Conference (Evolang6) Angelo Cangelosi, Andrew D M Smith, Kenny Smith, 2006-03-02 This volume comprises refereed papers and abstracts from the 6th International Conference on the Evolution of Language EVOLANG6 The biennial EVOLANG conference focuses on the origins and evolution of human language and brings together researchers from many disciplines including anthropology archaeology artificial life biology cognitive science computer science ethology genetics linguistics neuroscience palaeontology primatology and psychology The collection presents the latest theoretical experimental and modeling research on language evolution and includes contributions from the leading scientists in the field including T Fitch V Gallese S Mithen D Parisi A Piazza L Cavali Sforza R

Sevfarth D Cheney L Steels L Talmy and M Tomasello Human Evolutionary Biology Michael P. Muehlenbein, 2010-07-29 Wide ranging and inclusive this text provides an invaluable review of an expansive selection of topics in human evolution variation and adaptability for professionals and students in biological anthropology evolutionary biology medical sciences and psychology The chapters are organized around four broad themes with sections devoted to phenotypic and genetic variation within and between human populations reproductive physiology and behavior growth and development and human health from evolutionary and ecological perspectives An introductory section provides readers with the historical theoretical and methodological foundations needed to understand the more complex ideas presented later Two hundred discussion questions provide starting points for class debate and assignments to test student understanding **African Genesis** Sally C. Reynolds, Andrew Gallagher, 2012-03-29 The discovery of the first species of African hominin Australopithecus africanus from Taung South Africa in 1924 launched the study of fossil man in Africa New discoveries continue to confirm the importance of this region to our understanding of human evolution Outlining major developments since Raymond Dart's description of the Taung skull and in particular the impact of the pioneering work of Phillip V Tobias this book will be a valuable companion for students and researchers of human origins It presents a summary of the current state of palaeoanthropology reviewing the ideas that are central to the field and provides a perspective on how future developments will shape our knowledge about hominin emergence in Africa A wide range of key themes are covered from the earliest fossils from Chad and Kenya to the origins of bipedalism and the debate about how and where modern humans evolved and dispersed across Africa

Fundamentals of Forensic DNA Typing John M. Butler, 2009-09-30 Fundamentals of Forensic DNA Typing is written with a broad viewpoint It examines the methods of current forensic DNA typing focusing on short tandem repeats STRs It encompasses current forensic DNA analysis methods as well as biology technology and genetic interpretation This book reviews the methods of forensic DNA testing used in the first two decades since early 1980 s and it offers perspectives on future trends in this field including new genetic markers and new technologies Furthermore it explains the process of DNA testing from collection of samples through DNA extraction DNA quantitation DNA amplification and statistical interpretation The book also discusses DNA databases which play an important role in law enforcement investigations In addition there is a discussion about ethical concerns in retaining DNA profiles and the issues involved when people use a database to search for close relatives Students of forensic DNA analysis forensic scientists and members of the law enforcement and legal professions who want to know more about STR typing will find this book invaluable Includes a glossary with over 400 terms for quick reference of unfamiliar terms as well as an acronym guide to decipher the DNA dialect Continues in the style of Forensic DNA Typing 2e with high profile cases addressed in D N A Boxes Data Notes Applications sections throughout Ancillaries include instructor manual Web site with tailored set of 1000 PowerPoint slides including figures links to online training websites and a test bank with key

Physical (Biological) Anthropology P. Rudan, 2009-07-29 Physical Biological

Anthropology theme is a component of Encyclopedia Of Biological Physiological And Health Sciences EOLSS which is an integrated compendium of twenty one Encyclopedias Biological anthropology also known as physical anthropology is a scientific discipline concerned with the biological and behavioral aspects of human beings their related non human primates and their extinct hominin ancestors It is a subfield of anthropology that provides a biological perspective to the systematic study of human beings This volume is aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers NGOs and GOs

Human Population Genetics and Genomics Alan R. Templeton, 2018-11-08 Human Population Genetics and Genomics provides researchers students with knowledge on population genetics and relevant statistical approaches to help them become more effective users of modern genetic genomic and statistical tools In depth chapters offer thorough discussions of systems of mating genetic drift gene flow and subdivided populations human population history genotype and phenotype detecting selection units and targets of natural selection adaptation to temporally and spatially variable environments selection in age structured populations and genomics and society As human genetics and genomics research often employs tools and approaches derived from population genetics this book helps users understand the basic principles of these tools In addition studies often employ statistical approaches and analysis so an understanding of basic statistical theory is also needed Comprehensively explains the use of population genetics and genomics in medical applications and research Discusses the relevance of population genetics and genomics to major social issues including race and the dangers of modern eugenics proposals Provides an overview of how population genetics and genomics helps us understand where we came from as a species and how we evolved into who we are now Human Evolution Source Book Russell L. Ciochon, John G. Fleagle, 2016-12-05 For Junior Senior and Graduate courses in Human Evolution taught in anthropology and biology departments This book is the most comprehensive collection of cutting edge articles on human evolution Designed for use by students in anthropology paleontology and evolutionary biology this edited volume brings together the major ideas and publications on human evolution of the past three decades The book spans the entire scope of human evolution with particular emphasis on the fossil record including archaeological studies Archaeology: The Key Concepts Colin Renfrew, Paul Bahn, 2013-09-05 From two of the best known archaeological writers in the trade this outstanding resource provides a thorough survey of the key ideas in archaeology and how they impact on archaeological thinking and method Clearly written and easy to follow Archaeology The Key Concepts collates entries written specifically by field specialists and each entry offers a definition of the term its origins and development and all the major figures involved in the area The entries include thinking about landscape archaeology of cult and religion cultural evolution concepts of time urban societies the antiquity of humankind archaeology of gender feminist archaeology experimental archaeology multiregional evolution With guides to further reading extensive cross referencing and accessibly written for even beginner students this book is a

superb guide for anyone studying teaching or with any interest in this fascinating subject The Human Career Richard G. Klein, 2024-05-31 Since its publication in 1989 The Human Career has proved to be an indispensable tool in teaching human origins This substantially revised third edition retains Richard G Klein's innovative approach while showing how cumulative discoveries and analyses over the past ten years have significantly refined our knowledge of human evolution Klein chronicles the evolution of people from the earliest primates through the emergence of fully modern humans within the past 200 000 years His comprehensive treatment stresses recent advances in knowledge including for example ever more abundant evidence that fully modern humans originated in Africa and spread from there replacing the Neanderthals in Europe and equally archaic people in Asia With its coverage of both the fossil record and the archaeological record over the 2 5 million years for which both are available The Human Career demonstrates that human morphology and behavior evolved together Throughout the book Klein presents evidence for alternative points of view but does not hesitate to make his own position clear In addition to outlining the broad pattern of human evolution The Human Career details the kinds of data that support it For the third edition Klein has added numerous tables and a fresh citation system designed to enhance readability especially for students He has also included more than fifty new illustrations to help lay readers grasp the fossils artifacts and other discoveries on which specialists rely With abundant references and hundreds of images charts and diagrams this new edition is unparalleled in its usefulness for teaching human evolution Ancestors in Our Genome Eugene E. Harris, 2014-10-31 In 2001 scientists were finally able to determine the full human genome sequence and with the discovery began a genomic voyage back in time Since then we have sequenced the full genomes of a number of mankind s primate relatives at a remarkable rate The genomes of the common chimpanzee 2005 and bonobo 2012 orangutan 2011 gorilla 2012 and macague monkey 2007 have already been identified and the determination of other primate genomes is well underway Researchers are beginning to unravel our full genomic history comparing it with closely related species to answer age old questions about how and when we evolved For the first time we are finding our own ancestors in our genome and are thereby gleaning new information about our evolutionary past In Ancestors in Our Genome molecular anthropologist Eugene E Harris presents us with a complete and up to date account of the evolution of the human genome and our species Written from the perspective of population genetics and in simple terms the book traces human origins back to their source among our earliest human ancestors and explains many of the most intriguing questions that genome scientists are currently working to answer For example what does the high level of discordance among the gene trees of humans and the African great apes tell us about our respective separations from our common ancestor Was our separation from the apes fast or slow and when and why did it occur Where when and how did our modern species evolve How do we search across genomes to find the genomic underpinnings of our large and complex brains and language abilities How can we find the genomic bases for life at high altitudes for lactose tolerance resistance to disease and for our different skin pigmentations. How and when did we interbreed

with Neandertals and the recently discovered ancient Denisovans of Asia Harris draws upon extensive experience researching primate evolution in order to deliver a lively and thorough history of human evolution Ancestors in Our Genome is the most complete discussion of our current understanding of the human genome available **Human Mitochondrial** DNA and the Evolution of Homo sapiens Hans-Jürgen Bandelt, Martin Richards, Vincent Macaulay, 2006-09-05 Mitochondrial DNA is one of the most explored genetic systems because of what it can tell us about the human past This volume takes a unique perspective presenting the disparate strands that must be tied together to exploit this system From molecular biology to anthropology statistics to ancient DNA this first volume of three presents the global picture of human mitochondrial DNA variation It takes a critical look at the field flagging the problems as well as the successes and always placing the mitochondrial phylogeny centre stage On Human Nature Michel Tibayrenc, Francisco J. Ayala, 2016-09-12 On Human Nature Biology Psychology Ethics Politics and Religion covers the present state of knowledge on human diversity and its adaptative significance through a broad and eclectic selection of representative chapters This transdisciplinary work brings together specialists from various fields who rarely interact including geneticists evolutionists physicians ethologists psychoanalysts anthropologists sociologists theologians historians linguists and philosophers Genomic diversity is covered in several chapters dealing with biology including the differences in men and apes and the genetic diversity of mankind Top specialists known for their open mind and broad knowledge have been carefully selected to cover each topic The book is therefore at the crossroads between biology and human sciences going beyond classical science in the Popperian sense The book is accessible not only to specialists but also to students professors and the educated public Glossaries of specialized terms and general public references help nonspecialists understand complex notions with contributions avoiding technical jargon Provides greater understanding of diversity and population structure and history with crucial foundational knowledge needed to conduct research in a variety of fields such as genetics and disease Includes three robust sections on biological psychological and ethical aspects with cross fertilization and reciprocal references between the three sections Contains contributions by leading experts in their respective fields working under the guidance of internationally recognized and highly respected editors Transitions Before the Transition Erella Hovers, Steven Kuhn, 2007-01-06 Modern human origins and the fate of the Neanderthals are arguably the most compelling and contentious arenas in paleoanthropology The much discussed split between advocates of a single early emergence of anatomically modern humans in sub Saharan Africa and supporters of various regional continuity positions is only part of the picture Equally if not more important are questions surrounding the origins of modern behavior and the relationships between anatomical and behavioral changes that occurred during the past 200 000 years Although modern humans as a species may be defined in terms of their skeletal anatomy it is their behavior and the social and cognitive structures that support that behavior which most clearly distinguish Homo sapiens from earlier forms of humans This book assembles researchers working in Eurasia and Africa to discuss the

archaeological record of the Middle Paleolithic and the Middle Stone Age This is a time period when Homo sapiens last shared the world with other species and during which patterns of behavior characteristic of modern humans developed and coalesced Contributions to this volume query and challenge some current notions about the tempo and mode of cultural evolution and about the processes that underlie the emergence of modern behavior The papers focus on several fundamental questions Do typical elements of modern human behavior appear suddenly or are there earlier archaeological precursors of them Are the archaeological records of the Middle Paleolithic and Middle Stone Age unchanging and monotonous or are there detectable evolutionary trends within these periods Coming to diverse conclusions the papers in this volume open up new avenues to thinking about this crucial interval in human evolutionary history

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