

THE MANDRILL

A Case of Extreme Sexual Selection



ALAN F. DIXSON

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David Kirk

The Mandrill A Case Of Extreme Sexual Selection:

The Mandrill Alan F. Dixson,2015-11-12 Living in the remote forests of western central Africa the mandrill *Mandrillus sphinx* is notoriously elusive and has evaded scientific scrutiny for decades Yet it is the largest and most sexually dimorphic of all the Old World monkeys and perhaps the most colourful of all the mammals Synthesising the results of more than twenty five years of research this is the first extensive treatment of the mandrill s reproductive and behavioural biology Dixson explores in detail the role that sexual selection has played in shaping the mandrill s evolution covering mechanisms of mate choice intra sexual competition sperm competition and cryptic female choice Bringing to life through detailed descriptions and rich illustrations the mandrill s communicatory biology and the functions of its brightly coloured adornments this book sheds new light on the evolutionary biology of this fascinating primate

Sexual Selection in *Homo sapiens*

Menelaos Apostolou,2017-06-20 The present book aims to examine how sexual selection works in the human species Almost all scholarly effort focuses on sexual selection in non human species and extrapolates the findings to the human one However human mating has a unique pattern not found in any other species namely parental influence over mate choice Across preindustrial societies the typical pattern of long term mating is arranged marriage where parents choose spouses for their children By doing so parents effectively become a sexual selection force Traits that enhance an individual s chance to be selected as a son or a daughter in law confer important reproductive advantages to those who are endowed with them increasing in frequency in the population The author has coined the term parental choice to describe the sexual selection force that arises from parental control over mating He synthesizes extensive theoretical and empirical work in order to understand and model this force The aim is to understand which factors give rise to parental choice and to combine these insights into constructing a more formal model It also aims to further examine whether the predictions of the model fit the patterns of mating found across different types of human societies and how the model can be used to understand the evolution of behavioral traits involved in mating By synthesizing the various arguments put forward and published across the literature the book offers a comprehensive argument and overview of an aspect of sexual selection unique to our species Furthermore the book revises and extends previously made arguments and models while it provides useful insights on how the proposed revision of sexual selection theory can enable us to understand a wide range of human behavioral phenomena It should be key reading for those interested in studying sexual selection in general and in the *Homo sapiens* species in particular

Mammalian Sexuality Alan F. Dixson,2021-06-03 The first detailed account of post copulatory sexual selection and the evolution of reproduction in mammals

Encyclopedia of Reproduction ,2018-06-29 Encyclopedia of Reproduction Second Edition Six Volume Set comprehensively reviews biology and abnormalities also covering the most common diseases in humans such as prostate and breast cancer as well as normal developmental biology including embryogenesis gestation birth and puberty Each article provides a comprehensive overview of the selected topic to inform a

broad spectrum of readers from advanced undergraduate students to research professionals Chapters also explore the latest advances in cloning stem cells endocrinology clinical reproductive medicine and genomics As reproductive health is a fundamental component of an individual's overall health status and a central determinant of quality of life this book provides the most extensive and authoritative reference within the field Provides a one stop shop for information on reproduction that is not available elsewhere Includes extensive coverage of the full range of topics from basic to clinical considerations including evolutionary advances in molecular cellular developmental and clinical sciences Includes multimedia and interactive teaching tools such as downloadable PowerPoint slides video content and interactive elements such as the Virtual Microscope

Movement Ecology of Afrotropical Forest Mammals Rafael Reyna-Hurtado, Colin A. Chapman, Mario Melletti, 2023-04-24 This book brings a unique perspective to animal movement studies because all studies come from African tropical environments where the great diversity either biological and structurally trees shrubs vines epiphytes present the animals with several options to fulfil their basic needs These conditions have forced the evolution of unique movement patterns and ecological strategies The book follows on our previous book Movement Ecology of Neotropical Forest Mammals but focuses on tropical African forests Movement is an essential process in the life of all organisms Animals move because they are looking for primary needs such as food water cover mating and to avoid predators Understanding the causes and consequences of animal movement is not an easy task for behavioural ecologists Many animals are shy move in secretive ways and are very sensible to human presence therefore studying the movements of mammals in tropical environments presents logistical and methodological challenges However researchers have recently started to be solved these challenges and exciting new information is emerging In this book we are compiling a set of extraordinary studies where researchers have used new technology and the strongest methodological approaches to understand movement patterns in wild African forest mammals This second book should inspire early career researchers to investigate wild mammal's movements in some of the most amazing forest in the world African tropical forests

Handbook of Psychology, Behavioral Neuroscience Irving B. Weiner, Randy J. Nelson, Sheri Mizumori, 2012-10-10 Psychology is of interest to academics from many fields as well as to the thousands of academic and clinical psychologists and general public who can't help but be interested in learning

more about why humans think and behave as they do This award winning twelve volume reference covers every aspect of the ever fascinating discipline of psychology and represents the most current knowledge in the field This ten year revision now covers discoveries based in neuroscience clinical psychology's new interest in evidence based practice and mindfulness and new findings in social developmental and forensic psychology

Architecture Inspired by Nature María Rosa Cervera Sardá, Elena-Codina Dușoiu, Tana Nicoleta Lascu, 2023-08-25 The book brings together the research completed during 10 editions of International Seminars of Bionics organized by the School of Architecture of the University of Alcalá de Henares Madrid several of them in partnership with the Ion Mincu University of Architecture and Urbanism Bucharest carried out in

Spain and in Romania The articles here consider advanced bionic design principles implementing them to an impressive variety of application fields including but not limited to urban planning and landscape public space architecture and building structures design and detailing application of natural dynamic processes bio digital architecture innovative materials based on living organisms micro algae and nano modified materials A particular focus is given to light and perception of light To illustrate the principles developed this contributed volume includes descriptions and full color images of the experimental projects created during the workshops held in the framework of these ISB meetings Learning from Nature Integrating Bionics 2009 Adaptability Efficiency and Biostructures 2010 Bionics and Innovation 2011 Forms and Structures Inspired by Nature 2016 2017 Furniture Inspired by Natural Models 2018 Relation between Structure and Envelope Light Structures 2019 Light from Nature to Architecture Structures Inspired in Nature 2020 Light in Architecture and Design A Bionic Perspective 2021 Sustainable Thinking and Bionics 2022 *Great Books of the Western World: The descent of man, and selection in relation to sex* Robert Maynard Hutchins,1952 A massive set of classic books includes the most influential works of literature philosophy and science in the history of the West **The Works of Charles Darwin, Volume 22** Charles Darwin,1989-02-01 Charles Robert Darwin 1809 1882 has been widely recognized since his own time as one of the most influential writers in the history of Western thought His books were widely read by specialists and the general public and his influence had been extended by almost continuous public debate over the past 150 years New York University Press s new paperback edition makes it possible to review Darwin s public literary output as a whole plus his scientific journal articles his private notebooks and his correspondence This is complete edition contains all of Darwin s published books featuring definitive texts recording original pagination with Darwin s indexes retained The set also features a general introduction and index and introductions to each volume *A Concordance to Darwin's The Descent of Man and Selection in Relation to Sex* Paul H. Barrett,1987 *Grzimek's Animal Life Encyclopedia* Bernhard Grzimek,2003 Provides a comprehensive reference on animals around the world including their life cycles predators food systems overall ecology and more **Great Books of the Western World ,1952 Great Books of the Western World: Darwin** Robert Maynard Hutchins,1952 *Great Books of the Western World: Darwin ,1952 Mammalian Sexuality* Alan F. Dixson,2021-06-03 There are more than 6000 species belonging to twenty seven orders in the Class Mammalia Comparative studies of this diverse and magnificent array of extant species provide valuable opportunities to formulate and test hypotheses concerning the evolution of reproduction This is the first book to explore in depth and breadth the complex interrelationships that exist between patterns of mating behaviour and the evolution of mammalian reproductive anatomy and physiology It focuses upon the role that copulatory and post copulatory sexual selection have played during the evolution of the monotremes marsupials and placental mammals and examines the effects of sperm competition and cryptic female choice upon coevolution of the genitalia in the two sexes In addition due weight is also given to discussions of the modes of life of mammals and to the roles played by natural selection

and phylogeny in determining their reproductive traits *The Middle East, Abstracts and Index* ,2001 *New Scientist* ,1978 *Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards* ,2006 Theses on any subject submitted by the academic libraries in the UK and Ireland The Descent of Man, and Selection in Relation to Sex Charles Darwin,1871 The nature of the following work will be best understood by a brief account of how it came to be written During many years I collected notes on the origin or descent of man without any intention of publishing on the subject but rather with the determination not to publish as I thought that I should thus only add to the prejudices against my views It seemed to me sufficient to indicate in the first edition of my Origin of Species that by this work light would be thrown on the origin of man and his history and this implies that man must be included with other organic beings in any general conclusion respecting his manner of appearance on this earth Now the case wears a wholly different aspect When a naturalist like Carl Vogt ventures to say in his address as President of the National Institution of Geneva 1869 personne en Europe au moins n ose plus soutenir la cr ation ind pendante et de toutes pi ces des esp ces it is manifest that at least a large number of naturalists must admit that species are the modified descendants of other species and this especially holds good with the younger and rising naturalists The greater number accept the agency of natural selection though some urge whether with justice the future must decide that I have greatly overrated its importance Of the older and honoured chiefs in natural science many unfortunately are still opposed to evolution in every form **The Descent of Man and Selection in Relation to Sex** Charles Darwin,1871

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