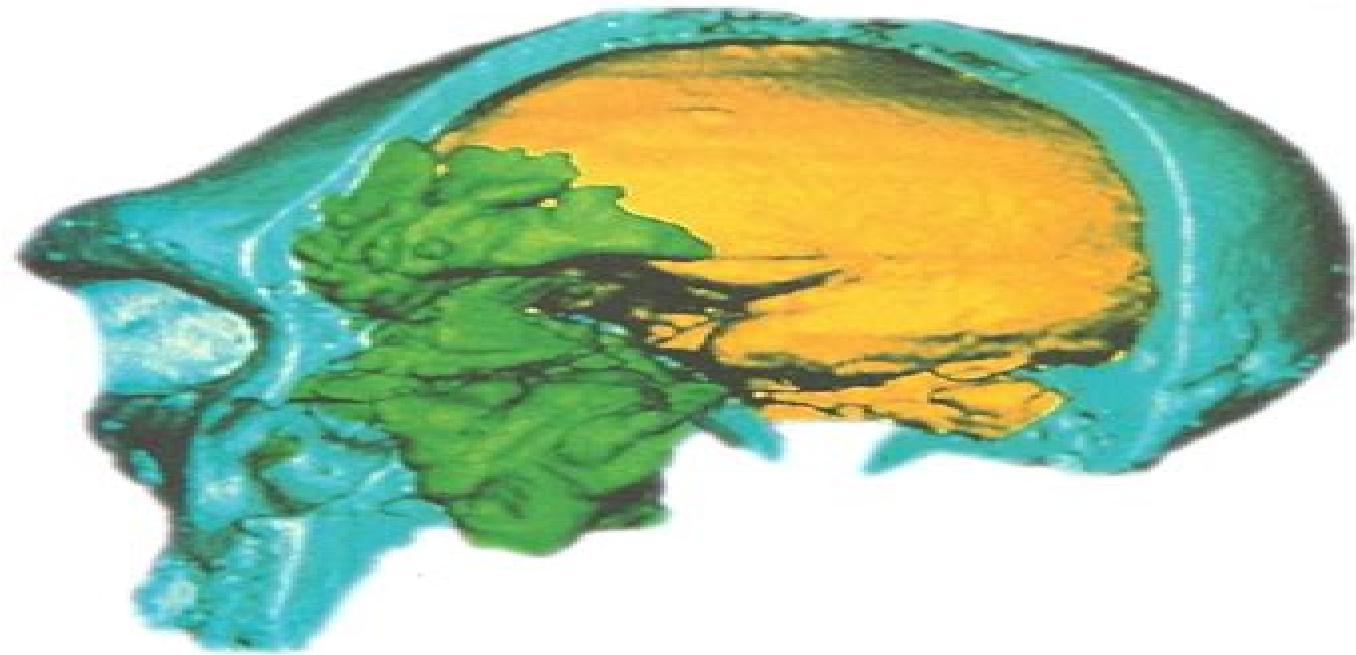


Thomas Koppe / Hiroshi Nagai / Kurt W. Alt

The Paranasal Sinuses of Higher Primates

Development, Function, and Evolution



The Paranasal Sinuses Of Higher Primates Development Function Evolution

Callum Ross,Richard F. Kay

The Paranasal Sinuses Of Higher Primates Development Function Evolution:

The Paranasal Sinuses of Higher Primates Thomas Koppe,Hiroshi Nagai,Kurt W. Alt,1999 Paranasal Sinuses of Higher Primates Thomas Koppe,Hiroshi Nagai,Kurt W. Alt,1999-04-30 This volume focuses on the variation in skull pneumatization in anthropoid primates The authors begin with an overview of phylogeny of skull pneumatization in vertebrates and then focus on the growth morphology physiology and evolutionary history of the paranasal sinuses of primates Selected themes on the cranofacial morphology of humans and higher primates are also covered Research on these key structures may provide new insight into primate evolution as well as useful information for clinicians who work with the variety of bony and mucosal structures of the paranasal sinuses Patterns of Growth and Development in the Genus Homo J. L. Thompson,G. E. Krovitz,A. J. Nelson,2003-12-04 It is generally accepted that the earliest human ancestors grew more like apes than like humans today If they did so and we are now different when how and why did our modern growth patterns evolve This book focuses on species within the genus Homo to investigate the evolutionary origins of characteristic human patterns and rates of craniofacial and postcranial growth and development and to explore unique ontogenetic patterns within each fossil species Experts examine growth patterns found within available Plio Pleistocene hominid samples and analyse variation in ontogenetic patterns and rates of development in recent modern humans in order to provide a comparative context for fossil hominid studies Presenting studies of some of the newer juvenile fossil specimens and information on Homo antecessor this book will provide a rich data source with which anthropologists and evolutionary biologists can address the questions posed above

Proceedings on the 10th Teratology Symposium Richard Vogel,2001 Dental Perspectives on Human Evolution Shara E. Bailey,Jean-Jacques Hublin,2007-09-26 S E BAILEY Department of Human Evolution Max Planck Institute for Evolutionary Anthropology Deutscher Platz 6 D 04103 Leipzig Germany and Center for the Study of Human Origins Department of Anthropology New York University 25 Waverly Place New York NY 10003 USA sbailey nyu edu J J HUBLIN Department of Human Evolution Max Planck Institute for Evolutionary Anthropology Deutscher Platz 6 D 04103 Leipzig Germany hublin eva mpg de When faced with choosing a topic to as teeth represent by far the most abundant be the focus of the first symposium material documenting different species of in Human Evolution at the Max Planck extinct non human primates and hominins As Institute for Evolutionary Anthropology in such much of what we know about non Leipzig a paleoanthropological perspective human primate and hominin evolution is based of dental anthropology was a natural choice on teeth Teeth make up a disproportionate number Teeth have been a focus of interest for of the fossils discovered They represent physical anthropologists over many gen strongly mineralized organs of compact shape ations Teeth provide a multitude of which allow better preservation in geological information about humans including deposits and archaeological sites than any cultural treatment pathology morphological other part of the skeleton As a result variation and development The presence of since the discoveries of the first fossils of culturally induced wear toothpick grooves extinct species

vertebrate paleontology has for example reveals something about what been built primarily on analyses of teeth

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 *Biology and Evolution of Crocodylians* Gordon Grigg,2015-01-15

Biology and Evolution of Crocodylians is a comprehensive review of current knowledge about the world s largest and most famous living reptiles Gordon Grigg s authoritative and accessible text and David Kirshner s stunning interpretive artwork and colour photographs combine expertly in this contemporary celebration of crocodiles alligators caimans and gharials This book showcases the skills and capabilities that allow crocodylians to live how and where they do It covers the biology and ecology of the extant species conservation issues crocodylian human interaction and the evolutionary history of the group and includes a vast amount of new information 25 per cent of 1100 cited publications have appeared since 2007 Richly illustrated with more than 500 colour photographs and black and white illustrations this book will be a benchmark reference work for crocodylian biologists herpetologists and vertebrate biologists for years to come *Anthropoid Origins* Callum Ross,Richard F. Kay,2004 This second edition will be an edited volume of interest to those who do research and teach about the evolution of primates It aims to convey to primatologists anthropologists palaeontologists and neuroscientists the most recent studies of primate phylogeny the anthropoid fossil record the evolution of the primate visual system and the origin of the anthropoid social systems This title includes a CD ROM and color figures

Anthropoid Origins Callum F. Ross,Richard F. Kay,2012-12-06 This second edition will be an edited volume of interest to those who do research and teach about the evolution of primates It aims to convey to primatologists anthropologists palaeontologists and neuroscientists the most recent studies of primate phylogeny the anthropoid fossil record the evolution of the primate visual system and the origin of the anthropoid social systems This title includes a CD ROM and color figures

Hofmeyr Frederick E. Grine,2022-12-29 This edited volume provides the historical and geological background as well as the details pertaining to the morphology and morphometric assessments of a singular human cranial specimen from the Late Pleistocene discovered in Hofmeyr South Africa The chapters are divided into 4 main sections Section 1 discusses the discovery and historical context of the skull while section 2 addresses its geological and geochronological contexts through dating and stable isotope analyses Section 3 details the general morphological and morphometric analyses description 3 D reconstruction morphological comparisons and section 4 details the specific

morphological analyses performed inner ear dentition endocranial morphology and size The volume will be of interest to professional and student paleoanthropologists interested in the later phases of human evolution **Primate Anatomy**
Friderun Ankel-Simons, 2010-07-27 Primate Anatomy is unlike any other work on primates it systematically reviews the biology of all living primates including humans It describes their bio geographical information and provides crucial data pertaining to their body size fur coloration external distinguishing features habitat and basic life strategies Now in its third edition Primate Anatomy discusses species that are new to science since the last edition with details concerning anatomical features among primates that were re discovered New research in molecular primatology is also included due to recent relevant findings in molecular biology in accordance with new technology The basics of biological taxonomy are introduced along with photographs of all major groups Important new and controversial issues make this edition key for every primatologists anthropologist and anatomist Offers up to date reviews of molecular primatology and primate genomics Concentrates on living primates and their overall biology Discusses the genetic connection of function where known Introduces primate genomics for the first time in a textbook Provides instructive and comprehensive review tables Includes many unique novel and easily understandable illustrations **Morphology, Shape and Phylogeny** Norman MacLeod,Peter L. Forey,2002-02-07

Generally biologists and mathematicians who study the shape and form of organisms have largely been working in isolation from those who work on evolutionary relationships through the analysis of common characteristics Increasingly however dialogue between the two communities is beginning to develop but other than a handful of journal papers there has been no formal published discussion on this subject This timely book summarises the interdisciplinary work that has taken place and will stimulate additional research into these topics Any scientist working on evolutionary relationships will find this volume invaluable **The Evo-Devo Origin of the Nose, Anterior Skull Base and Midface** Roger Jankowski,2013-03-19

The phylontogenetic theory proposes an original understanding of nose sinus and midface formation and development by looking back in evolution for the first traces of the olfactory organ and then tracing its successive phyletic transformations to become part of the respiratory apparatus and finally the central point of human facial anatomy Von Baer's Darwin's Haeckel's Garstang's Gould's and Buss explorations of parallels between phylogeny and ontogeny help to trace the nose and midface story The paradigm of existing parallels between ontogeny and phylogeny proves useful both in seeking to understand the holoprosencephalic spectrum of facial malformations which represent radically different pathways of facial development after the life's tape has been started to run again and in formulating hypotheses on chordate to vertebrate evolution The phylontogenetic theory leads to new medical hypotheses on nose and sinus diseases and opens the field of evolution and development based medicine **Bones, Stones and Molecules** David W. Cameron,Colin P. Groves,2004-07-08 Bones Stones and Molecules provides some of the best evidence for resolving the debate between the two hypotheses of human origins The debate between the Out of Africa model and the Multiregional hypothesis is examined through the functional and

developmental processes associated with the evolution of the human skull and face and focuses on the significance of the Australian record. The book analyzes important new discoveries that have occurred recently and examines evidence that is not available elsewhere. Cameron and Groves argue that the existing evidence supports a recent origin for modern humans from Africa. They also specifically relate these two theories to interpretations of the origins of the first Australians. The book provides an up to date interpretation of the fossil archaeological and the molecular evidence specifically as it relates to Asia and Australia in particular. Readily accessible to the layperson and professional. Provides concise coverage of current scientific evidence. Presents a robust computer generated model of human speciation over the last 7 million years. Well illustrated with figures and photographs of important fossil specimens. Presents a synthesis of great ape and human evolution.

Music, Language, and Human Evolution Nicholas Bannan, 2012-07-19. The accompanying DVD provides some glimpses of the practice of music in a variety of cultures and illustrates ways of listening to the human voice that reveal its intrinsic musicality. The DVD was edited by Pedro Espi Sanchis who recorded further material in South Africa.

The Frontal Sinus Christos Georganas, Anshul Sama, 2022-02-23. This book will be a valuable resource for novice surgeons approaching one of the most challenging anatomical subsites since it provides a stepwise approach to understanding the anatomical background, the radiological aspects and the broad spectrum of different surgical approaches to the frontal sinuses. The authors are to be congratulated for this masterpiece which will become the gold standard for experts and beginners.

Paolo Castelnovo Edited by renowned rhinologists and skull base surgeons Christos Georganas and Anshul Sama this complete guide to frontal sinus surgery covers surgical anatomy and radiology, frontal specific pathology, surgical techniques, technical advancements and controversies. It focuses on those starting surgical practice and it is also of interest to well established surgeons. This book brings together some of the leading surgeons across the globe to provide varied and complementary perspectives. The content is organized in five sections: surgical anatomy, specific conditions of the frontal sinus, open surgical approaches, endoscopic surgical approaches and controversies. Key Features: More than 600 full color images and diagrams illustrating surgical concepts and demonstrating detailed techniques; Stepwise descriptions of surgical techniques with a tips and tricks section in each chapter drawn from the authors' experience; Clinical case presentations in each chapter illustrating key concepts and techniques; A truly global and balanced perspective with world leading authors from all continents.

Controversial topics analyzed from evidence based medicine (EBM) perspective. This is a must have resource for otolaryngology head and neck surgery residents, fellows and specialists that may also benefit neurosurgeons, maxillofacial surgeons, plastic surgeons and other clinicians who deal with this challenging and complex area. This book includes complimentary access to a digital copy on <https://medone.thieme.com/div/div>.

Three-dimensional Imaging in Paleoanthropology and Prehistoric Archaeology Bertrand-Yves Mafart, Hervé Delingette, Gérard Subsol, 2002. This volume presents the proceedings of a colloquium held at the XIVth UISPP Congress. It constitutes the most extensive collection of data yet published on the topic of

3D imaging in paleoarcheology In addition to results documenting the value of 3D imaging in a wide range of applications researchers and students will find a raft of useful information including references methodologies and analysis techniques The studies presented at this colloquium show that 3D imaging techniques do not compete with or detract from other methods As their availability and power grows computerized systems based on technologies with capabilities far beyond those of the human eye e g industrial scanners and high resolution laser will become indispensable tools alongside classic anatomical and morphological analysis This technology should not be considered as an emerging science in itself but rather as a powerful new multidisciplinary tool to assist paleoanthropological and archeological studies

Computational Paleontology Ashraf M.T. Elewa,2011-03-04 Computational paleontology is simply a term applied to using computers and its facilities in the field of paleontology However we should be exactly precise in describing the term through explaining the main themes of this motivating and attractive scientific field The uppermost aim of this book is to explain how computation could be competent in fetching fossils to life and the past to present Computers for paleontologists save time and costs interpret mysterious events precisely and accurately visualize the ancient life definitely and undeniably

Dental

Anthropology Kurt W. Alt,Friedrich W. Rösing,Maria Teschler-Nicola,2012-12-06 Shelley Saunders This book offers a welcome diversity of topics covering the broader subjects of teeth and the study of teeth by anthropologists There is an impressive array of coverage here including the history of anthropological study of the teeth morphology and structure pathology and epidemiology the relationship between nutrition human behavior and the dentition age and sex estimation from teeth and geographic and genetic variation Most chapter authors have provided thorough reviews of their subjects along with examples of recent analytical work and recommendations for future research North American researchers should particularly appreciate the access to an extensive European literature cited in the individual chapter bibliographies Physical anthropologists with even a passing interest in dental research should greet the publication of this book with pleasure since it adds to a growing list of books on how the study of teeth can tell us so much about past human populations In addition to the archaeological applications there is the forensic objective of dental anthropology which the editors refer to in their introduction which is dealt with in this volume The chapters dealing with methods of sex determination age estimation of juveniles and age estimation of adults using the teeth are exhaustive and exacting and of critical importance to both osteoarchaeologists and forensic anthropologists Authors Liversidge Herdeg and Rosing provide very clear guidelines for the use of dental formation standards in juvenile age estimation recommendations that are so obviously necessary at this time

The Zoological Record ,2003

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