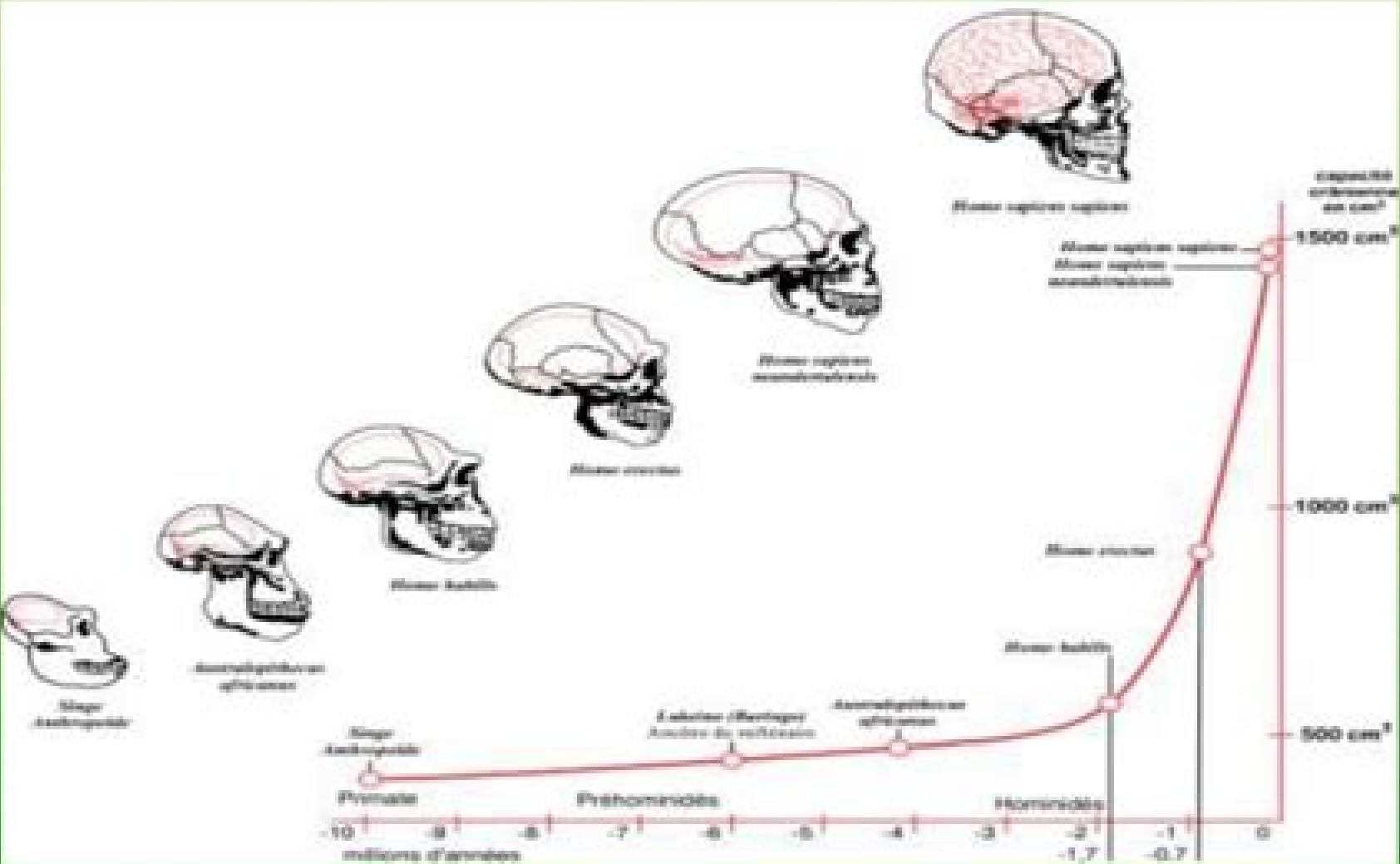


The evolution of human brain:-



Evolution Of The Brain

Stephen Cunnane, Kathlyn Stewart



Evolution Of The Brain:

Evolution of the Brain: Creation of the Self John C. Eccles, 2005-07-05 In this book Nobel Prize winner Sir John Eccles tells the story of how man came to be as he is not only as an animal at the end of the hominid evolutionary line but also as a human being possessed of reflective consciousness

Evolution of The Brain and Intelligence Harry Jerison, 2012-12-02 Evolution of the Brain and Intelligence covers the general principles of behavior and brain function The book is divided into four parts encompassing 17 chapters that emphasize the implications of the history of the brain for the evolution of behavior in vertebrates The introductory chapter covers the studies of animal behavior and their implications about the nature of the animal's world The following chapters emphasize methodological issues and the meanings of brain indices and brain size as well as the general anatomy of the brain Other chapters discuss the history of the brain in the major vertebrate groups that were known about 300 million years ago to determine the fate of these early vertebrate groups Discussions on broad trends in evolution and their implications for the evolution of intelligence are also included Substantive matter on the brains bodies and associated mechanisms of behavior of vertebrates are covered in the remaining chapters of the book with an emphasis on evolution above the species level This book is of value to anthropologists behavioral scientists zoologists paleontologists and neurosciences students

Human Brain Evolution Stephen Cunnane, Kathlyn Stewart, 2010-06-01 The evolution of the human brain and cognitive ability is one of the central themes of physical biological anthropology This book discusses the emergence of human cognition at a conceptual level describing it as a process of long adaptive stasis interrupted by short periods of cognitive advance These advances were not linear and directed but were acquired indirectly as part of changing human behaviors in other words through the process of exaptation acquisition of a function for which it was not originally selected Based on studies of the modern human brain certain prerequisites were needed for the development of the early brain and associated cognitive advances This book documents the energy and nutrient constraints of the modern brain highlighting the significant role of long chain polyunsaturated fatty acids LC PUFA in brain development and maintenance Crawford provides further emphasis for the role of essential fatty acids in particular DHA in brain development by discussing the evolution of the eye and neural systems This is an ideal book for Graduate students post docs research scientists in Physical Biological Anthropology Human Biology Archaeology Nutrition Cognitive Science Neurosciences It is also an excellent selection for a grad student discussion seminar

Evolution of the Primate Brain Michel A. Hofman, Dean Falk, 2012-03-02 This volume of Progress in Brain Research provides a synthetic source of information about state of the art research that has important implications for the evolution of the brain and cognition in primates including humans This topic requires input from a variety of fields that are developing at an unprecedented pace genetics developmental neurobiology comparative and functional neuroanatomy at gross and microanatomical levels quantitative neurobiology related to scaling factors that constrain brain organization and evolution primate palaeontology including paleoneurology paleo anthropology

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Evolution of the Brain, Cognition, and Emotion in Vertebrates Shigeru Watanabe, Michel A Hofman, Toru Shimizu, 2017-09-05 This book presents a new view on the evolution of the brain cognition and emotion Around a half century ago Professor Harry Jerison published a seminal book entitled *Evolution of the Brain and Intelligence* Since then there has been a series of dramatic methodological and conceptual changes which have led to many new insights into the understanding of brain evolution and cognition This book is particularly focused on three significant aspects of such changes First taking advantage of a new integrated approach called evolutionary developmental biology or Evo Devo researchers have started to look into vertebrate brain evolution from the developmental perspective Second comparative neuroanatomists have accumulated a large amount of information about the brains of diverse animal groups to refute the old fashioned idea that vertebrate brains evolved linearly from non mammals to mammals Third comparative behavioral studies have demonstrated that sophisticated cognition and emotion are not unique to some primates but are also found in many non primate and even non mammalian species This work will appeal to a wide readership in such fields as neuroscience cognitive science and behavioral science

The Lives of the Brain John S. Allen, 2010-02-15 Though we have other distinguishing characteristics bipedalism relative hairlessness etc the brain and the behavior it produces are what truly set us apart from the other apes and primates How this three pound organ composed of water fat and protein turned a mammal species into the dominant animal on earth is the story Allen tells

Big Brains and the Human Superorganism Niccolo Leo Caldararo, 2017-09-05 This book examines why humans have big brains what big brains enable us to do and how specialized brains are associated with eusociality in animals It explores why brains expanded so slowly and then why they stopped growing This book whittles down the theories on brain size evolution to a few that represent testable hypotheses to identify logical and practical explanations for the phenomenon At the core of this book is data derived from original previously unpublished research on brain size in a number of social mammals This data supports the idea that evolution of the brain in humans is the result of social interaction This book also traces the products of the social brain ideology religion urban life housing and learning and adapting to dense complex social interactions It uniquely compares brain evolution in social animals across the animal kingdom and examines the nature of the human brain and its evolution within the social and historical context of complex human social structures

The Long Evolution of Brains and Minds Gerhard Roth, 2013-06-03 The main topic of the book is a reconstruction of the evolution of nervous systems and brains as well as of mental cognitive

abilities in short intelligence from simplest organisms to humans It investigates to which extent the two are correlated One central topic is the alleged uniqueness of the human brain and human intelligence and mind It is discussed which neural features make certain animals and humans intelligent and creative Is it absolute or relative brain size or the size of intelligence centers inside the brains the number of nerve cells inside the brain in total or in such intelligence centers decisive for the degree of intelligence of mind and eventually consciousness And which are the driving forces behind these processes Finally it is asked what all this means for the classical problem of mind brain relationship and for a naturalistic theory of mind

Development and Evolution of Brain Size Martine Hahn, 2012-12-02 *Development and Evolution of Brain Size Behavioral Implications* contains the proceedings of a symposium entitled *Development and Evolution of Brain Size Behavioral Implications* held at William Paterson College in Wayne New Jersey in April 1978 The papers explore the relationship between evolution and development and its implications for brain size and behavior This book is comprised of 18 chapters and begins with an overview of the brain behavior relationship with emphasis on the importance of brain size for behavior the effects of genetic selection for brain size on brain substructures and behavior and whether genetic and environmental manipulations of brain size have similar consequences The next two chapters explain evolutionary theory and the evolution of the human brain as well as diversity in brain size A general model for brain evolution that offers some synthetic possibilities for approaching the questions of brain evolution size allometry and reorganization is then described The correlation between cerebral indices and behavioral differences is also discussed along with biochemical correlates of selective breeding for brain size The results of an experiment that assessed the effects of early undernutrition on brain and behavior of developing mice are presented This monograph should be of interest to students and practitioners in a wide range of disciplines including evolutionary biology and clinical psychology

Brain Evolution by Design Shuichi Shigeno, Yasunori Murakami, Tadashi Nomura, 2017-02-07 This book presents a new detailed examination that explains how elegant brains have been shaped in evolution It consists of 19 chapters written by academic professionals in neuroscience opening with the origin of single celled creatures and then introducing primordial types in invertebrates with the great abundance of the brains of vertebrates Important topics are provided in a timely manner because novel techniques emerged rapidly as seen for examples in the next generation sequencers and omics approaches With the explosion of big data neural related genes and molecules is now on the radar In fact Europe s big science and technology projects a 1 billion plan called the Human Brain Project and the Blue Brain Project to understand mammalian brain networks have been launched in recent years Furthermore with the rise of recently advanced artificial intelligence there is great enthusiasm for understanding the evolution of neural networks The views from brain evolution in nature provide an essential opportunity to generate ideas for novel neuron and brain inspired computation The ambition behind this book is that it will stimulate young scientists who seek a deeper understanding in order to find the basic principles shaping brains that provided higher cognitive functions in the

course of evolution In the Light of Evolution National Academy of Sciences, 2013-01-25 The central goal of the In the Light of Evolution ILE series is to promote the evolutionary sciences through state of the art colloquia in the series of Arthur M Sackler colloquia sponsored by the National Academy of Sciences and their published proceedings Each installment explores evolutionary perspectives on a particular biological topic that is scientifically intriguing but also has special relevance to contemporary societal issues or challenges This book is the outgrowth of the Arthur M Sackler Colloquium Brain and Behavior which was sponsored by the National Academy of Sciences on January 20 21 2012 at the Academy's Arnold and Mabel Beckman Center in Irvine CA It is the sixth in a series of Colloquia under the general title In the Light of Evolution Specifically In Light of Evolution Brain and Behavior focuses on the field of evolutionary neuroscience that now includes a vast array of different approaches data types and species This volume is also available for purchase with the In the Light of Evolution six volume set *Evolution of the Brain*, 1969 **Evolutionary Neuropsychology** Frederick L. Coolidge, 2020 In Evolutionary neuropsychology Coolidge examines the evolutionary origins of the human brain A new multidisciplinary science evolutionary neuropsychology assumes that brain regions developed their functions in response to environmental challenges over billions of years These regions and neuronal circuitry now serve newer functions exaptations and are now involved in many higher cognitive functions The Runaway Brain Christopher Wills, 1994-08 A look at the human brain employs new research by paleontologists geneticists and neurobiologists to debunk revisionist theories of human prehistory studying two competing theories of human evolution the multiple origins and Noah's Ark models *Evolutionary Neuroscience* Jon H Kaas, 2009-07-28 Evolutionary Neuroscience is a collection of articles in brain evolution selected from the recent comprehensive reference Evolution of Nervous Systems Elsevier Academic Press 2007 The selected chapters cover a broad range of topics from historical theory to the most recent deductions from comparative studies of brains The articles are organized in sections focused on theories and brain scaling the evolution of brains from early vertebrates to present day fishes amphibians reptiles and birds the evolution of mammalian brains and the evolution of primate brains including human brains Each chapter is written by a leader or leaders in the field and has been reviewed by other experts Specific topics include brain character reconstruction principles of brain scaling basic features of vertebrate brains the evolution of the major sensory systems and other parts of brains what we can learn from fossils the origin of neocortex and the evolution of specializations of human brains The collection of articles will be interesting to anyone who is curious about how brains evolved from the simpler nervous systems of the first vertebrates into the many different complex forms now found in present day vertebrates This book would be of use to students at the graduate or undergraduate levels as well as professional neuroscientists cognitive scientists and psychologists Together the chapters provide a comprehensive list of further reading and references for those who want to inquire further The most comprehensive authoritative and up to date single volume collection on brain evolution Full color throughout with many illustrations Written by leading scholars and

experts **Biology, Brains, and Behavior** Sue Taylor Parker, Jonas Langer, Michael L. McKinney, 2000 This volume examines the connections between the evolution of the human brain and behaviour **Survival Of The Fattest: The Key To Human Brain Evolution** Stephan Cosgrave Cunnane, 2005-05-06 How did humans evolve larger and more sophisticated brains In general evolution depends on a special combination of circumstances part genetics part time and part environment In the case of human brain evolution the main environmental influence was adaptation to a shore based diet which provided the world's richest source of nutrition as well as a sedentary lifestyle that promoted fat deposition Such a diet included shellfish fish marsh plants frogs bird's eggs etc Humans and more importantly hominid babies started to get fat a crucial distinction that led to the development of larger brains and to the evolution of modern humans A larger brain is expensive to maintain and this increasing demand for energy results in succinctly survival of the fittest **Primate Brain Evolution** Este Armstrong, Dean Falk, 2012-12-06 Given the past decade's explosion of neurobiological and paleontological data and their increasingly sophisticated analyses interdisciplinary syntheses between these two broad disciplines are of value and interest to many different scientists The collected papers of this volume will appeal to students of primate and hominid evolution neuroscientists sociobiologists and other behaviorists who seek a better understanding of the substrates of primate including human behavior Each species of living primates represents an endpoint in evolution but comparative neurologists can produce approximate evolutionary sequences by careful analyses of representative series Because nervous tissue does not fossilize only a comparison of structures and functions among extant primates can be used to investigate the fine details of primate brain evolution Paleoneurologists who directly examine the fossil record via endocasts or cranial capacities of fossil skulls can best provide information about gross details such as changes in brain size or sulcal patterns and determine when they occurred Physical anthropologists and paleontologists have traditionally relied more on paleoneurology whereas neuroscientists and psychologists have relied more on comparative neurology This division has been a detriment to the advancement of these fields and to the conceptual bases of primate brain evolution Both methods are important and a synthesis is desirable To this end two symposia were held in 1980 one at the meeting of the American Association of Physical Anthropologists in Niagara Falls U S A and one at the precongressional meeting of the International Primatological Society in Torino Italy **The Triune Brain in Evolution** P.D. MacLean, 1990-01-31 This is MacLean's major work on the evolutionary development of the human brain In its evolution the human forebrain expands along the lines of three basic formations that anatomical and biochemically reflect an ancestral relationship respectively to reptiles early mammals and late mammals MacLean describes this as the Triune Brain Amazon.com viewed July 29 2020 **Evolution, Brain, and Behavior** R. B. Masterton, W. Hodos, H. J. Jerison, 2019-01-22 In this second volume on the evolution of the nervous system and behavior the discussion turns from conclusions to method from a description of what happened in history to the means of deciding what happened First published in 1976

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