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EVOLUTION AND LATERALIZATION OF THE BRAIN



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Evolution And Laterization Of The Brain

Jon H Kaas



Evolution And Laterization Of The Brain:

Evolution and Lateralization of the Brain Stuart J. Dimond, 1977 Cerebral Lateralization and Cognition: Evolutionary and Developmental Investigations of Behavioral Biases, 2018-08-07 Cerebral Lateralization and Cognition Evolutionary and Developmental Investigations of Motor Biases Volume 238 the latest release in the Progress in Brain Research series discusses interdisciplinary research on the influence of cerebral lateralization on cognition within an evolutionary framework Chapters of note in this release include Evolutionary Perspectives Visual Motor Biases and Cognition Manual laterality and cognition through evolution An archeological perspective Laterality in insects Motor asymmetries in fish amphibians and reptiles Visual biases and social cognition in animals Mother and offspring lateralized social interaction across animal species Manual bias personality and cognition in common marmosets and other primates and more Presents investigations of cognitive development in an evolutionary framework Provides a better understanding of the causal relationship between motor function and brain organization Brings clinicians and neuroscientists together to consider the relevance of motor biases as behavioral biomarkers of cognitive disorders Includes future possibilities for early detection and motor intervention therapies **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 **Comparative Vertebrate Lateralization** Lesley J. Rogers, Richard Andrew, 2002-03-25 No longer viewed as a characteristic unique to humans brain lateralization is considered a key property of most if not all vertebrates This field of study provides a firm basis from which to examine a number of important issues in the study of brain and behaviour This book takes a comparative and integrative approach to lateralization in a wide range of

vertebrate species including humans It highlights model systems that have proved invaluable in elucidating the function causes development and evolution of lateralization The book is arranged in four parts beginning with the evolution of lateralization moving to its development to its cognitive dimensions and finally to its role in memory Experts in lateralization in lower vertebrates birds non primate mammals and primates have contributed chapters in which they discuss their own research and consider its implications to humans The book is suitable for researchers graduates and advanced undergraduates in psychology neuroscience and the behavioral sciences Causality and Development Gerald Young,2019-02-28 The third book in Young s unique trilogy on causality and development continues to locate and define the central role of causality in biopsychosocial and network systems development and as a unifying concept of psychology itself As a way of discussing causality in general initially the book focuses on the acquisition of handedness and hemispheric specialization in infancy and childhood and their relations to the development of cognition language and emotion in particular The second part of the book elaborates an innovative 25 step Neo Eriksonian model of development across the life course based on a Neo Piagetian model covered in the previous books completing a step by step account of development over the lifespan cognitively and socio emotionally It builds on the concept of neo stage which is network based From this conceptual synthesis the author s robust theory of development and causality identifies potential areas for psychological problems and pathology at each developmental step as well as science based possibilities for their treatment This elegant volume Presents a clear picture of the development of handedness and laterality in more depth than has been attempted in the literature to date Traces the causal concepts of activation inhibition coordination and networking in the context of development Describes in depth a novel 25 step Neo Eriksonian lifespan model of development Reviews relevant research on Piagetian and Eriksonian theories in development Emphasizes the clinical utility of the described 25 step Neo Eriksonian approach to lifespan development A significant step in understanding this highly nuanced subject and synthesizing a broad knowledge base Causality and Development will find an interested audience among developmental psychologists mental health practitioners academics and researchers chers *Evolution of Nervous Systems* Georg F. Striedter,Theodore H. Bullock,Todd M. Preuss,John Rubenstein,Leah A. Krubitzer,2016-11-23 Evolution of Nervous Systems Second Edition Four Volume Set is a unique major reference which offers the gold standard for those interested both in evolution and nervous systems All biology only makes sense when seen in the light of evolution and this is especially true for the nervous system All animals have nervous systems that mediate their behaviors many of them species specific yet these nervous systems all evolved from the simple nervous system of a common ancestor To understand these nervous systems we need to know how they vary and how this variation emerged in evolution In the first edition of this important reference work over 100 distinguished neuroscientists assembled the current state of the art knowledge on how nervous systems have evolved throughout the animal kingdom This second edition remains rich in detail and broad in scope outlining the changes in brain

and nervous system organization that occurred from the first invertebrates and vertebrates to present day fishes reptiles birds mammals and especially primates including humans The book also includes wholly new content fully updating the chapters in the previous edition and offering brand new content on current developments in the field Each of the volumes has been carefully restructured to offer expanded coverage of non mammalian taxa mammals primates and the human nervous system The basic principles of brain evolution are discussed as are mechanisms of change The reader can select from chapters on highly specific topics or those that provide an overview of current thinking and approaches making this an indispensable work for students and researchers alike Presents a broad range of topics ranging from genetic control of development in invertebrates to human cognition offering a one stop resource for the evolution of nervous systems throughout the animal kingdom Incorporates the expertise of over 100 outstanding investigators who provide their conclusions in the context of the latest experimental results Presents areas of disagreement and consensus views that provide a holistic view of the subjects under discussion

The Evolution of Hemispheric Specialization in Primates

William D. Hopkins, 2007-09-18 Hemispheric specialization and lateralized sensory cognitive or motor function of the left and right halves of the brain commonly manifests in humans as right handedness and left hemisphere specialization of language functions Historically this has been considered a hallmark of and unique to human evolution Some theories propose that human right handedness evolved in the context of language and speech while others that it was a product of the increasing motor demands associated with feeding or tool use In the past 20 25 years there has been a plethora of research in animals on the topic of whether population level asymmetries in behavioral processes or neuro anatomical structures exist in animals notably primates and people have begun to question the historical assumptions that hemispheric specialization is unique to humans This book brings together various summary chapters on the expression of behavioral and neuro anatomical asymmetries in primates Several chapters summarize entire families of primates while others focus on genetic and non genetic models of handedness in humans and how they can be tested in non human primates In addition it makes explicit links between various theoretical models of the development of handedness in humans with the observed patterns of results in non human primates A second emphasis is on comparative studies of handedness in primates There is now enough data in the literature across different species to present an evolutionary tree for the emergence of handedness and perhaps other aspects of hemispheric specialization such as neuro anatomical asymmetries and its relation to specific morphological and ecological adaptations in various primate species The first treatment of this important topic since 1998 Examines the tenet that lateralization and handedness is a uniquely human character through evidence from higher and lower primates and with reference to other vertebrates Advances our understanding of the occurrence evolution and significance of lateralization and handedness effects

The Autistic Atheist

Emily Cooper, 2024-09-11 Religion has been a fundamental aspect of human societies throughout history but is on the decline in the modern scientific era Simultaneously Autism rates are on the rise

raising questions about whether this increase is due to improved diagnosis and recognition of the condition or if reflects an actual rise in prevalence We explore the complexities of Autism Spectrum Disorder ASD its potential causes and the implications it holds for the future of humanity and evolution Autism is a difference in intuitive thinking and understanding of the world The differences in thinking from the point of view of the general population are often seen as deficits Drawing on work from Ara Norenzayan this book explores the hypothesis that the deficits in theory of mind that Autistic people experience constrain their ability to believe in a God and accept religious claims This book is an exploration of the evolutionary psychology of religion and Autism What is the future of religion and its place in human evolution

Textbook of Evolutionary Psychiatry and Psychosomatic Medicine Martin Brüne, 2015-11-12 Psychiatry and Psychosomatic Medicine are concerned with medical conditions affecting brain mind and behaviour in manifold ways Traditional approaches have focused on a restricted array of potential causes of psychiatric and psychosomatic conditions including adverse experiences such as trauma neglect or abuse genetic vulnerability and epigenetic regulation of gene expression Whilst essential for the understanding of mental disorders these approaches have disregarded important questions such as why the human mind is vulnerable to dysfunction at all The *Textbook of Evolutionary Psychiatry and Psychosomatic Medicine* updates and expands the previous edition to provide answers to these questions by emphasising an evolutionary perspective on psychiatric and psychosomatic conditions It explains how the human brain mind has been shaped by natural and sexual selection why adaptations to environmental conditions in our evolutionary past may nowadays work in suboptimal ways and how human cognition emotions and behaviour can be scientifically framed to improve our understanding of how people try to attain important biosocial goals pertaining to one's status in society mating eliciting and providing care and maintaining rewarding relationships The evolutionary topics relevant to the understanding of psychiatric and psychosomatic conditions include the concepts of genetic plasticity life history theory stress regulation and immunological aspects In addition it is argued that an evolutionary framework is also necessary to understand how psychotherapy and psychopharmacology work to improve the lives of patients with psychiatric and psychosomatic disorders The *Textbook of Evolutionary Psychiatry and Psychosomatic Medicine* is a valuable text for all students of Psychology Medicine and Psychotherapy who seek an understanding of the evolutionary issues surrounding health and disease

Advances in the Study of Behavior, 2002-01-21 The aim of *Advances in the Study of Behavior* remains as it has been since the series began to serve the increasing number of scientists who are engaged in the study of animal behavior by presenting their theoretical ideas and research to their colleagues and to those in neighboring fields We hope that the series will continue its contribution to the development of the field as its intended role was phrased in the Preface to the first volume in 1965 Since that time traditional areas of animal behavior have achieved new vigor by the links they have formed with related fields and by the closer relationship that now exists between those studying animal and human subjects *Advances in the Study of Behavior* Volume 31 continues to serve scientists across

a wide spectrum of disciplines Focusing on new theories and research developments with respect to behavioral ecology evolutionary biology and comparative psychology these volumes foster cooperation and communications in these dense fields

Behavioral Lateralization in Vertebrates Davide Csermely, Lucia Regolin, 2012-07-16 Functional lateralization in the human brain was first identified in the classic observations by Broca in the 19th century Only one hundred years later however research on this topic began anew discovering that humans share brain lateralization not only with other mammals but with other vertebrates and even invertebrates Studies on lateralization have also received considerable attention in recent years due to their important evolutionary implications becoming an important and flourishing field of investigation worldwide among ethnologists and psychologists The chapters of this book concern the emergence and adaptive function of lateralization in several aspects of behavior for a wide range of vertebrate taxa These studies span from how lateralization affects some aspects of fitness in fishes or how it affects the predatory and the exploratory behavior of lizards to navigation in the homing flights of pigeons social learning in chicks the influence of lateralization on the ontogeny process of chicks and the similarity of manual lateralization handedness between humans and apes our closest relatives *Ecology, Evolution, and Behavior of Viviparous Fishes* J. Jaime Zúñiga-Vega, Bart Pollux, Jerald B. Johnson, Andrea S. Aspbury, 2022-02-24

Cerebral Asymmetries , 2025-03-13 Cerebral Asymmetries Volume 208 summarizes research on cerebral hemispheric asymmetries and their implication for consciousness cognition language emotion behavior movement and neurological disease The book discusses anatomy and networks genetics hormones and evolution although it is primarily focused on animal research as it relates back to humans Summarizes research on cerebral hemispheric asymmetries Identifies impact on consciousness cognition language behavior movement and more Includes animal and human research Covers anatomy genetics hormones and evolution

Human Evolution Roger Lewin, 2004-09-17 The brief length and focused coverage of Human Evolution An Illustrated Introduction have made this best selling textbook the ideal complement to any biology or anthropology course in which human evolution is taught The text places human evolution in the context of humans as animals while also showing the physical context of human evolution including climate change and the impact of extinctions Chapter introductions numerous drawings and photographs and an essential glossary all add to the accessibility of this text The fifth edition has been thoroughly updated to include coverage of the latest discoveries and perspectives including New early hominid fossils from Africa and Georgia and their implications New archaeological evidence from Africa on the origin of modern humans Updated coverage of prehistoric art including new sites New perspectives on molecular evidence and their implications for human population history An Instructor manual CD ROM for this title is available Please contact our Higher Education team at HigherEducation.wiley.com for more information

Evolution of the Primate Brain , 2012-01-25 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 comparative psychology and behavioural evolutionary biology Written by internationally renowned scientists this timely volume will be of wide interest to students scholars science journalists and a variety of experts who are interested in keeping track of the discoveries that are rapidly emerging about the evolution of the brain and cognition Written by internationally renowned scientists this timely volume will be of wide interest to students scholars science journalists and a variety of experts who are interested in keeping track of the discoveries that are rapidly emerging about the evolution of the brain and cognition

Brain Asymmetry of Structure and/or Function Lesley J. Rogers, 2018-07-06 This book is a printed edition of the Special Issue Brain Asymmetry of Structure and or Function that was published in Symmetry Lateralization and cognitive systems Sebastian Ocklenburg, Christian Beste, Onur Gunturkun, Marco Hirnstein, 2015-02-24 Left right asymmetries of structure and function are a common organization principle in the brains of humans and non human vertebrates alike While there are inherently asymmetric systems such as the human language system or the song system of songbirds the impact of structural or functional asymmetries on perception cognition and behavior is not necessarily limited to these systems For example performance in experimental paradigms that assess executive functions such as inhibition planning or action monitoring is influenced by information processing in the bottom up channel Depending on the type of stimuli used one hemisphere can be more efficient in processing than the other and these functional cerebral asymmetries have been shown to modulate the efficacy of executive functions via the bottom up channel We only begin to understand the complex neuronal mechanisms underlying this interaction between hemispheric asymmetries and cognitive systems Therefore it is the aim of this Research Topics to further elucidate how structural or functional hemispheric asymmetries modulate perception cognition and behavior in the broadest sense Therapeutics of Neural Stimulation for Neurological Disorders Yuping Wang, 2023-11-24 This book mainly focuses on diversity of brain diseases such as sleep disorders major depression disorder anxiety disorders epilepsy cognitive disorders etc It introduces the current pathological mechanisms of various diseases from the perspective of basic theories and research it introduces the clinical evaluation and treatment of the above diseases from the clinical perspective In addition the current frontier research on therapeutics of neural stimulation for the above brain disorder was introduced such as Transcranial electrical stimulation magnetic stimulation ultrasonic stimulation etc and the therapeutic strategy and stimuli parameters for reference were proposed This book is aimed at clinical students doctors and researchers in the field of neurology Based on major brain diseases this book systematically proposed the maneuverability safety and effectiveness of neural stimulation technologies in the treatment of major brain diseases **Behavioural and Morphological Asymmetries in Vertebrates** Yegor B. Malashichev, A. Wallace Deckel, 2006-08-08 This volume grew out of

the 2nd International Symposium on Behavioral and Morphological Asymmetries which took place in St Petersburg Russia in September 2004 at the St Petersburg State University under the patronage of the St Petersburg Society of Naturalists The Symposium is the descendant of a satellite event with a similar name of the 4th *Neural Mechanisms of Cognitive Control and Emotion in Birds* Andras Csillag, Toshiya Matsushima, 2023-02-14

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