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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 *The Lateralized Brain* Sebastian Ocklenburg, Onur Güntürk, 2024-02-21 The second edition of *The Lateralized Brain* provides for readers a volume detailing the functional and structural differences between the left and right hemispheres of the brain highlighting how the widespread use of modern neuroimaging techniques such as fMRI and DTI have completely changed the way hemispheric asymmetries are currently investigated In this new edition all chapters have been updated with recent advances in the field and a new chapter on hemispheric asymmetries in development and aging has been integrated Also featured is a new larger section on laterality in social behavior alongside a comprehensive overview about key topics in laterality research including its history evolutionary perspectives brain structure and the role of the corpus callosum Chapters cover functional hemispheric asymmetries in language processing motor behavior spatial attention self and face perception emotion processing and social behavior Additional topics include the ontogenesis of hemispheric asymmetries and their development over the life span as well as sex differences and associations with clinical syndromes This volume can be used by anyone working on hemispheric biology or in courses on hemispheric asymmetries Provides a comprehensive overview about key topics in laterality research including its history evolutionary perspectives the corpus callosum and brain structure Includes references to key articles books protocols and online resources for additional detailed study Discusses classic studies that helped define the field of laterality research and presents introductory short stories e g famous classic clinical cases in laterality research as a starting point for each chapter Covers key concepts and methods in separate call out boxes for quick overview Newly integrates a chapter on laterality in social behavior as well as various smaller new sections covering recent advances in the field **Cerebral Lateralization and Cognition: Evolutionary and Developmental Investigations of Motor 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 **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 *Lateralized Brain Functions* Lesley J. Rogers, Giorgio

Vallortigara, 2024-12-11 This second edition volume expands on the previous edition with updates on the latest techniques used to study brain and behavioral laterality in both human and non human animals The chapters in this book cover numerous topics such as methods of measuring lateralization in a range of species by scoring behavior elicited by inputs to one of both brain hemispheres behavioral methods to study motor preferences and lateralization in invertebrates neurological methods to reveal lateralization imaging and electrocephalographic techniques and transcranial stimulation and new genetic approaches to studying lateralization in humans and zebrafish and the roles of genes in the establishment and development of brain asymmetry In the Neuromethods series style chapters include the kind of detail and key advice from the specialists needed to get successful results in your laboratory Cutting edge and authoritative *Lateralized Brain Function Methods in Human and Non Human Species Second Edition* is a valuable resource for further research on brain and behavioral asymmetries in human and non human species This book will provide both expert and novel researchers with answers to their questions while also encouraging vital collaborations **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 *Tools, Language and Cognition in Human Evolution* Kathleen Rita Gibson, Tim Ingold, 1993 Looks at how humans have evolved complex behaviours such as language and culture *Evolution and Psychology* Scott A. MacDougall-Shackleton, 2023-12-20 Evolution and Psychology is a critical exploration of how evolutionary approaches can be used to understand the human mind and behaviour Written for undergraduate students in the social sciences this text provides an accessible introduction to foundational concepts in evolutionary biology It then explores evolutionary perspectives on key psychological topics such as cognition development group dynamics mate choice language and communication psychopathology and culture An interdisciplinary approach is woven throughout integrating evolutionary psychology with insights from behavioural ecology anthropology genetics and neuroscience You will learn to think critically about evolutionary explanations with Warning Flag features throughout the text that address frequently misunderstood topics common fallacies and historical misuses and abuses of applying evolutionary theory to human behaviour This is an essential read for students of Evolutionary Psychology and anyone looking for a contemporary overview of this complex and captivating field Scott A MacDougall Shackleton is Professor of Psychology at Western University **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 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 *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 **Women In**

Human Evolution Lori Hager, 2005-08-18 This volume the first of its kind examines the role of women paleontologists and archaeologists in a field traditionally dominated by men Women researchers in this field have questioned many of the assumptions and developmental scenarios advanced by male scientists As a result of such efforts women have forged a more central role in models of human development and have radically altered the way in which human evolution is perceived This history of the feminist critique of science is of profound significance and will be of interest to all those who work in the fields of anthropology archaeology paleontology and human biology *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 *Uniquely Human* Philip

Lieberman, 1991 In a stimulating synthesis of cognitive science anthropology and linguistics Philip Lieberman tackles the fundamental questions of human nature How and why are human beings so different from other species Can the Darwinian theory of evolution explain human linguistic and cognitive ability How do our processes of language and thought differ from those of *Homo erectus* 500 000 years ago or of the Neanderthals 35 000 years ago What accounts for human moral sense Lieberman believes that evolution for rapid efficient vocal communication forged modern human beings by creating the

modern human brain Earlier hominids lacked fully human speech and syntax which together allow us to convey complex thoughts rapidly The author discusses how natural selection acted on older brain mechanisms to produce a structure that can regulate the motor activity necessary for speech and command the complex syntax that enhances the creativity of human language The unique brain mechanisms underlying human language also enhance human cognitive ability allowing us to derive abstract concepts and to plan complex activities These factors are necessary for the development of true altruism and moral behavior Lieberman supports his argument about the evolution of speech and the human brain by combining the comparative method of Charles Darwin insights from archaeology and child development and the results of high tech research with computerized brain scanning and computer models that can recreate speech sounds made by our ancestors over 100 000 years ago Uniquely Human will stimulate fresh thought and controversy on the basic question of how we came to be

Evolution, Early Experience and Human Development Darcia Narváez, 2012-11-29 The field of cognitive psychology has expanded rapidly in recent years with experts in affective and cognitive neuroscience revealing more about mammalian brain function than ever before In contrast psychological problems such as ADHD autism anxiety and depression are on the rise as are medical conditions such as diabetes obesity and autoimmune disorders Why in this era of unprecedented scientific self knowledge does there seem to be so much uncertainty about what human beings need for optimal development Evolution Early Experience and Human Development asserts that human development is being misshaped by government policies social practices and public beliefs that fail to consider basic human needs In this pioneering volume scientists from a range of disciplines theorize that the increase in conditions such as depression and obesity can be partially attributed to a disparity between the environments and conditions under which our mammalian brains currently develop and our evolutionary heritage For example healthy brain and emotional development depends to a significant extent upon caregiver availability and quality of care These include practices such as breastfeeding co sleeping and parental social support which have waned in modern society but nevertheless may be integral to healthy development As the authors argue without a more informed appreciation of the ideal conditions under which human brains minds develop and function human beings will continue to struggle with suboptimal mental and physical health and as problems emerge psychological treatments alone will not be effective The best approach is to recognize these needs at the outset so as to optimize child development Evolution Early Experience and Human Development puts forth a logical empirically based argument regarding human mammalian needs for optimal development based on research from anthropology neurobiology animal science and human development The result is a unique exploration of evolutionary approaches to human behavior that will support the advancement of new policies new attitudes towards health and alterations in childcare practices that will better promote healthy human development

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 4t **Ecology, Evolution, and Behavior of Viviparous Fishes** J. Jaime Zúñiga-Vega, Bart Pollux, Jerald B. Johnson, Andrea S. Aspbury, 2022-02-24 *Neural Mechanisms of Cognitive Control and Emotion in Birds* Andras Csillag, Toshiya Matsushima, 2023-02-14 **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 **Doubling the Brain** Janet Dunaif-Hattis, 1984 Revised version of the author s thesis Ph D Northwestern University 1981

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