



Behavioral
Biology: An International Series

CEREBRAL LATERALIZATION IN NONHUMAN SPECIES

Edited by

Stanley D. Glick

Cerebral Lateralization In Nonhuman Species

Jeannette P. Ward, William D. Hopkins



Cerebral Lateralization In Nonhuman Species:

Cerebral Lateralization in Nonhuman Species Stanley Glick, 2012-12-02 Cerebral Lateralization in Nonhuman Species explores brain asymmetries in animals and the extent to which such asymmetries relate in an evolutionary and clinical sense to the pervasive asymmetries that characterize the human brain Topics covered include cerebral lateralization in birds rats and nonhuman primates the inheritance of direction and degree of asymmetry in the brain the morphology of rat forebrain and variation in the pattern of behavioral and brain asymmetries due to sex differences Comprised of 11 chapters this book opens with a historical overview of research into the cerebral lateralization of structures and functions in nonhuman species The discussion then turns to lateralization of vocal control in songbirds and lateralization of several behaviors in domestic chicks The inheritance of direction and degree of asymmetry is also considered along with the morphology of rat forebrains The following chapters focus on asymmetries in anatomy and pathology in the rodent brain the link between brain lateralization and behavioral functions and how early experiences can induce laterality The final chapter analyzes the implications of brain asymmetries for evolution genetics and clinical syndromes This monograph will be a useful resource for students neuroscientists clinicians and other practitioners in fields ranging from psychobiology and psychology to anatomical sciences neurobiology neurochemistry and genetics

Cerebral Laterality Frederick L. Kitterle, 2013-01-11 Research on clinical populations and studies of normal individuals support the conclusion that there are functional differences between the cerebral hemispheres This book captures some of the major developments in the field of cerebral laterality research of the last five years These include lateralization in non human primates computational models of hemispheric processing hemispheric transfer and interaction perceptual asymmetries techniques to measure dynamic changes in hemispheric processing of information and new conceptualizations of the relation between handedness and cerebral laterality The topics discussed exhibit an interconnectedness such that the approaches and techniques used in one area of cerebral laterality research have implications for research in other disciplines They also reflect changes in the conceptualization of general theoretical issues regarding cerebral laterality research

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

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

Primate Laterality Jeannette P. Ward, William D. Hopkins, 2012-12-06 This book arrays recent research on the neural and behavioral lateralization of the brain relying heavily on animal models The authors employ the comparative method to enhance our understanding of behavior specifically through hand use and handedness by drawing comparisons with studies involving primates Topics discussed include Patterns of Lateralized Behavior in Prosimians Behavioral Lateralization in Language Trained Chimpanzees Patterns of Handedness Comparative Study of Nursery School Children and Captive Gorillas and Rotational Behavior in Children and Adults It is the first book of its kind devoted entirely to the question of behavioral asymmetries in all primates and thus presents a milestone as it recognizes the accumulating evidence of asymmetry and lateralized behavior in the non human nervous system

The Lateralized Brain Sebastian Ocklenburg, Onur Güntürkün, 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

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

Evolutionary Cognitive Neuroscience Steven Platek, Julian Keenan, Todd Kennedy Shackelford, 2007 An essential reference for the new discipline of evolutionary cognitive neuroscience that defines the field s approach of applying evolutionary theory to guide brain behavior investigations Since Darwin we have known that evolution has shaped all organisms and that biological organs including the brain and the highly crafted animal nervous system are subject to the pressures of natural and sexual selection It is only relatively recently however that the cognitive neurosciences have begun to apply evolutionary theory and methods to the study of brain and behavior This landmark reference documents and defines the emerging field of evolutionary cognitive neuroscience Chapters by leading researchers demonstrate the power of the evolutionary perspective to yield new data theory and insights on the evolution and functional modularity of the brain Evolutionary cognitive neuroscience covers all areas of cognitive neuroscience from nonhuman brain behavior relationships to human cognition and consciousness and each section of *Evolutionary Cognitive Neuroscience* addresses a different adaptive problem After an introductory section that outlines the basic tenets of both theory and methodology of an evolutionarily informed cognitive neuroscience the book treats neuroanatomy from ontogenetic and phylogenetic perspectives and explores reproduction and kin recognition spatial cognition and language and self awareness and social cognition Notable findings include a theory to explain the extended ontogenetic and brain development periods of

big brained organisms fMRI research on the neural correlates of romantic attraction an evolutionary view of sex differences in spatial cognition a theory of language evolution that draws on recent research on mirror neurons and evidence for a rudimentary theory of mind in nonhuman primates A final section discusses the ethical implications of evolutionary cognitive neuroscience and the future of the field Contributors C Davison Ankney Simon Baron Cohen S Marc Breedlove William Christiana Michael Corballis Robin I M Dunbar Russell Fernald Helen Fisher Jonathan Flombaum Farah Focquaert Steven J C Gaulin Aaron Goetz Kevin Guise Ruben C Gur William D Hopkins Farzin Irani Julian Paul Keenan Michael Kimberly Stephen Kosslyn Sarah L Levin Lori Marino David Newlin Ivan S Panyavin Shilpa Patel Webb Phillips Steven M Platek David Andrew Puts Katie Rodak J Philippe Rushton Laurie Santos Todd K Shackelford Kyra Singh Sean T Stevens Valerie Stone Jaime W Thomson Gina Volshteyn Paul Root Wolpe

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

Biological and Behavioral Determinants of Language Development Norman A. Krasnegor, Duane M. Rumbaugh, Richard L. Schiefelbusch, Michael Studdert-Kennedy, Esther Thelen, 2014-02-25 This book presents a current interdisciplinary perspective on language requisites from both a biological comparative perspective and from a developmental learning perspective Perspectives regarding language and language acquisition are advanced by scientists of

various backgrounds speech hearing developmental psychology comparative psychology and language intervention This unique volume searches for a rational interface between findings and perspectives generated by language studies with humans and with chimpanzees Intended to render a reconsideration as to the essence of language and the requisites to its acquisition it also provides readers with perspectives defined by various revisionists who hold that language might be other than the consequence of a mutation unique to humans and might fundamentally not be limited to speech **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 *Motor Activity and Movement Disorders* Paul Sanberg,Klaus-Peter Ossenkopp,Martin Kavaliers,1995-11-06 In *Motor Activity and Movement Disorders* thirteen state of the art articles explicate forefront research methodologies for measuring and interpreting motor activity in animals as well as their applications to preclinical and clinical research involving motor disorders The contributors emphasize motor asymmetries turning behavior and dyskinetic movements They also present a variety of quantitative approaches designed to assess specific aspects of motor activity and illustrate numerous computerized measuring techniques that permit detailed and objective approaches to quantifying motor behavior *Motor Activity and Movement Disorders* will contribute to a greater understanding of brain behavior relationships through its focus on methodology and its application to current animal models and to human disorders

Divided Brains Lesley J. Rogers,Giorgio Vallortigara,Richard J. Andrew,2013-01-17 Asymmetry of the brain and behaviour lateralization has traditionally been considered unique to humans However research has shown that this phenomenon is widespread throughout the vertebrate kingdom and found even in some invertebrate species A similar basic plan of organisation exists across vertebrates Summarising the evidence and highlighting research from the last twenty years the authors discuss lateralization from four perspectives function evolution development and causation covering a wide range of animals including humans The evolution of lateralization is traced from our earliest ancestors through fish and reptiles to birds and mammals The benefits of having a divided brain are discussed as well as the influence of experience on its development A final chapter discusses outstanding problems and areas for further investigation Experts in this field the authors present the latest scientific knowledge clearly and engagingly making this a valuable tool for anyone interested in the biology and behaviour of brain asymmetries *The Evolution of Thought* Anne E. Russon,David R. Begun,2007-07-23 Research on the evolution of higher intelligence rarely combines data from fields as diverse as paleontology and psychology In this volume we seek to do just that synthesizing the approaches of hominoid cognition psychology language studies ecology evolution paleoecology and systematics toward an understanding of great ape intelligence Leading scholars from all these fields have been asked to evaluate the manner in which each of their topics of research inform our understanding of the evolution of intelligence in great apes and humans The ideas thus assembled represent a comprehensive survey of the various causes and consequences of cognitive evolution in great apes *The Evolution of Thought* will therefore be an essential

reference for graduate students and researchers in evolutionary psychology paleoanthropology and primatology

Hemispheric Asymmetry Joseph B. Hellige, 2001 Is right brain thought essentially creative and left brain strictly logical Joseph B Hellige argues that this view is far too simplistic Surveying extensive data in the field of cognitive science he disentangles scientific facts from popular assumptions about the brain s two hemispheres In *Hemispheric Asymmetry* Hellige explains that the right brain and left brain are actually components of a much larger cognitive system encompassing cortical and subcortical structures all of which interact to produce unity of thought and action He further explores questions of whether hemispheric asymmetry is unique to humans and how it might have evolved This book is a valuable overview of hemispheric asymmetry and its evolutionary precedents *Evolution of Mind, Brain, and Culture* Gary Hatfield, Holly Pittman, 2013-04-19 *Evolution of Mind Brain and Culture* draws together studies in archaeology anthropology psychology philosophy genetics neuroscience and environmental science to investigate the evolution of the human mind the brain and the human capacity for culture *Psychoneuroimmunology* Robert Ader, 2014-06-28 *Psychoneuroimmunology* Second Edition presents reports on the relationship between the nervous and immune systems The book is divided into four sections The first section details the role of neural structures and neurotransmitter signals in communication with the immune system It documents the extensive neural connections with organs of the immune system the dynamics of noradrenergic sympathetic innervation of spleen and thymus and the evidence for immune signaling of the CNS Part II elaborates the role of hormones in the modulation of immune functions the basis for bidirectional communication between the neuroendocrine and immune systems and the potential physiological implications of these neuroendocrine immune system interactions The third part addresses behavioral influences on immune response the effects of conditioning stress and social interactions in modulating immune responses and the behavioral consequences of experimentally altered or genetically determined immunologic states The final section presents the effects of psychosocial factors on immune responses and the potential impact of behavioral interventions in modulating immunity in healthy human subjects and in patients with AIDS Neuroscientists endocrinologists and immunologists will find the book interesting [The Origins of Music](#) Nils L. Wallin, Bjorn Merker, Steven Brown, 2001-07-27 The book can be viewed as representing the birth of evolutionary biomusicology What biological and cognitive forces have shaped humankind s musical behavior and the rich global repertoire of musical structures What is music for and why does every human culture have it What are the universal features of music and musical behavior across cultures In this groundbreaking book musicologists biologists anthropologists archaeologists psychologists neuroscientists ethologists and linguists come together for the first time to examine these and related issues The book can be viewed as representing the birth of evolutionary biomusicology the study of which will contribute greatly to our understanding of the evolutionary precursors of human music the evolution of the hominid vocal tract localization of brain function the structure of acoustic communication signals symbolic gesture emotional manipulation through sound self expression creativity the human

affinity for the spiritual and the human attachment to music itself Contributors Simha Arom Derek Bickerton Steven Brown
 Ellen Dissanayake Dean Falk David W Frayer Walter Freeman Thomas Geissmann Marc D Hauser Michel Imberty Harry
 Jerison Drago Kunej Francois Bernard Mche Peter Marler Björn Merker Geoffrey Miller Jean Molino Bruno Nettl Chris
 Nicolay Katharine Payne Bruce Richman Peter J B Slater Peter Todd Sandra Trehub Ivan Turk Maria Ujhelyi Nils L Wallin
 Carol Whaling **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 **Brain Asymmetry** Richard J. Davidson, Kenneth Hugdahl, 1995 The
 twenty three contributions in Brain Asymmetry provide a comprehensive survey of modern research on laterality and brain
 asymmetry showcasing new approaches and novel domains in which knowledge of the asymmetrical functioning of the brain
 is a key issue for the complete understanding of the phenomenon Of particular note is the inclusion of material on laterality
 learning attention and emotion and their relation to subcortical and peripheral structures and processes In addition the
 clinical relevance of brain asymmetry for neuropsychological and psychopathological practice is surveyed Following a
 preface and historical overview chapters are divided into eight parts that cover Phylogenetic Antecedents and Anatomical
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Cerebral Lateralization In Nonhuman Species Introduction

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