



The Asymmetrical Brain

Kenneth Hugdahl, Richard J. Davidson



The Asymmetrical Brain:

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 Bases Perceptual Cognitive and Motor Lateralization Attention and Learning Central Autonomic Integration Emotional Lateralization Interhemispheric Interaction Ontogeny and Developmental Disabilities and Psychopathology Contributors Marie T Banich Brenda E Berge Carol A Boliek Halle D Brown Gerard E Bruder Richard J Davidson Marian Cleeves Diamond Jack E Downhill Jane E Edmonds Albert M Galaburda Josh Hall Anne Harrington Kenneth M Heilman Joseph B Hellige Kenneth Hugdahl George W Hynd J Richard Jennings Stephen M Kosslyn Richard D Laine David Warren Lewis Jacqueline Liederman Mario Liotti Richard Marshall John E Obrzut Michael Peters Robert G Robinson Sidney J Segalowitz Justine Sergeant Don M Tucker Werner Wittling Eran Zaidel A Bradford Book The Asymmetrical Brain Kenneth Hugdahl, Richard J. Davidson, 2003 Research on brain asymmetry with particular emphasis on findings made possible by recent advances in neuroimaging The Two Halves of the Brain Kenneth Hugdahl, René Westerhausen, 2010 State of the art research on brain asymmetry explained from molecular to clinical levels

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 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 *Drawing on the Right Side of the Brain* Betty Edwards, 2012-04-26 A revised edition of the classic bestselling how to draw book A life changing book this fully revised and updated edition of *Drawing on the Right Side of the Brain* is destined to inspire generations of readers and artists to come Translated into more than seventeen languages *Drawing on the Right Side of the Brain* is the world's most widely used instructional drawing book Whether you are drawing as a professional artist as an artist in training or as a hobby this book will give you greater confidence in your ability and deepen your artistic perception as well as foster a new appreciation of the world around you This revised updated fourth edition includes a new introduction crucial updates based on recent research on the brain's plasticity and the enormous value of learning new skills utilizing the right hemisphere of the brain new focus on how the ability to draw on the strengths of the right hemisphere can serve as an antidote to the increasing left brain emphasis in American life the worship of all that is linear analytic digital etc an informative section that addresses recent research linking early childhood scribbling to later language development and the importance of parental encouragement of this activity and new reproductions of master drawings throughout Manual Skills, Handedness, and the Organization of Language in the Brain Gregory Króliczak, Claudia L. R. Gonzalez, David P. Carey, 2019-08-15 Whereas the cerebral specialization for skilled manual actions praxis seems closely linked to dominance for language with both functions left lateralized in the vast majority of humans the neural correlates of hand preference are still less well understood Indeed as a combination of inherited and non inherited genomic factors i.e. direct parental and concealed environmental contributions handedness in contrast to language is less likely to have strong genetic indices and clearly lateralized functional organization What about eye dominance unimanual and bimanual object manipulation and gestures or attentional systems and the related egocentric or allocentric coding of space Are these different categories functionally and structurally interconnected Is their development and contribution to task performance linked even if they are differently lateralized How are they connected to language learning or its development In trying to understand these relationships and their neural underpinnings we obtain a new insight into fundamental human behaviors which depend either on shared or distinct cerebral resources that must nevertheless be harmonized by higher order cerebral processing In this Research Topic we assembled a dozen of original research contributions as well as articles with more theoretically driven perspectives that directly speak to these issues Hopefully this work will serve as a foundation for further discussions and will stimulate new research in this fascinating domain **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.

Micro-, Meso- and Macro-Connectomics of the Brain Henry Kennedy, David C. Van Essen, Yves Christen, 2016-03-10. This book has brought together leading investigators who work in the new arena of brain connectomics. This includes macro connectome efforts to comprehensively chart long distance pathways and functional networks micro connectome efforts to identify every neuron axon dendrite synapse and glial process within restricted brain regions and meso connectome efforts to systematically map both local and long distance connections using anatomical tracers. This book highlights cutting edge methods that can accelerate progress in elucidating static hard wired circuits of the brain as well as dynamic interactions that are vital for brain function. The power of connectomic approaches in characterizing abnormal circuits in the many brain disorders that afflict humankind is considered. Experts in computational neuroscience and network theory provide perspectives needed for synthesizing across different scales in space and time. Altogether this book provides an integrated view of the challenges and opportunities in deciphering brain circuits in health and disease.

Left Versus Right Asymmetries of Brain and Behaviour Lesley J. Rogers, 2019-12-12. This book is a collection of papers written by leaders in the field of lateralized brain function and behaviour in non human animals. The papers cover the asymmetry of brain mechanisms and behaviour in a wide range of both vertebrate and invertebrate species. Each paper focuses on one of the following topics: the link between population level lateralization and social behaviour the processes in the avian brain that permit one brain hemisphere to take control of behaviour lateralized attention to predators and the common pattern of lateralization in vertebrate species visual and auditory lateralization influences that alter the development of lateralization specifically the effect of temperature on the

development of lateralization in sharks and the importance of understanding lateralization when considering both the training and welfare of dogs Collectively these studies address questions of why different species have asymmetry of brain and behaviour how it develops and how this is dealt with by these different species The papers report on the lateralization of different types of behaviour each going beyond merely reporting the presence of asymmetry and shedding light on its function and on the mechanisms involved in its expression

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