



# The Neurobiology of Cognition and Behavior

*By John Hart Jr*

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## **The Neurobiology of Cognition and Behavior** By John Hart Jr

"Neurobiology of Cognition and Behavior" is one of the initial textbooks of brain mapping in the field of cognitive neuroscience. This well-researched text by a leading expert in the field provides a foundational map of the human brain for cognition and behavior. This comprehensive map of essential human thinking and emotion is based on the explosion in the field of functional neuroimaging studies (fMRI, PET) in the normally functioning human brain. The approach of this text is to confirm the association of these brain regions by verifying that damage to the activated brain area results in a consistent deficit in the cognitive/behavioral operation under investigation.

The approach used to form this view of mapping brain and cognition is based on cognitive neuroscience principles of defining dissociable, fine-grained cognitive units and associating these units with brain regions encoding for these units or aspects of the units from both functional imaging and lesion studies.

These cognitive-brain relationships are incorporated into clinical syndromes to account for the behavior of these patients after a lesion occurs, with the added feature of presenting patient videos demonstrating the disrupted cognitive behaviors.

This comprehensive textbook provides a framework of the basic architecture of cognition in the brain with this combination of activation and lesion study confirmation of the brain-behavior associations. This basic framework is useful for those students studying the interaction of cognitive science and neuroanatomy as well as being relevant to the experienced neuroscientist researcher or clinician.

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## Editorial Review

### Review

"Behavioral neurology meets cognitive neuroscience and functional brain imaging! Hart synthesizes the latest and historical findings from clinical and cognitive neuroscience in a single volume that is highly readable, insightful, thought-provoking, and timely. This will be an invaluable resource to researchers studying cognitive disorders and to clinicians interested in the latest findings relating functional brain imaging paradigms to clinico-anatomic correlates and clinical manifestations of cognitive disorders. A unique contribution to the field that is a must for students of brain function at all levels across disciplines."

--C. Munro Cullum, PhD, ABPP, Professor of Psychiatry and Neurology & Neurotherapeutics, Pamela Blumenthal Distinguished Professor of Clinical Psychology, Chief of Neuropsychology, University of Texas Southwestern Medical Center, Dallas, TX

"*The Neurobiology of Cognition and Behavior* is a masterfully organized and beautifully illustrated book that pays homage to classic behavioral neurology, while focusing sharply on contemporary cognitive neuroscience. John Hart brings clinical neurosciences to bear on our understanding of brain-behavior relationships and integrates these extraordinary syndromes with what we are learning from functional neuroimaging, electrophysiology, and non-invasive brain stimulation. This is an essential book for any student of the biological underpinnings of the mind." --- Anjan Chatterjee, MD, FAAN, Elliott Professor and Chief of Neurology, Pennsylvania Hospital, Penn Medicine, Philadelphia PA

"As a behavioral neurologist and cognitive neuroscientist, Dr. Hart is in a perfect position to provide a unique view of where these two disciplines converge. The result is an outstanding monograph that I would highly recommend to anyone who seeks to learn about of the biological basis of the mind." --- Mark D'Esposito, MD, Professor of Neuroscience and Psychology, Director, Henry H. Wheeler, Jr. Brain Imaging Center, University of California, Berkeley, Helen Wills Neuroscience Institute, Berkeley, CA

"John Hart has written an accessible, modern introduction to the neural basis of human cognition and behavior. The approach is grounded in brain anatomy, building on classic lesion studies and on modern advances in functional brain imaging and the cognitive neurosciences. The result is a lucid description of structures, pathways, processes, and networks that underpin major domains of cognitive function. This short, generously illustrated textbook on the functional neuroanatomy of cognition and behavior will be welcomed by students and trainees in the neurosciences, psychology, linguistics, neurology, and psychiatry." --Victor W. Henderson, MD, MS, Department of Neurology and Neurological Sciences, Stanford University, Stanford, CA

"John Hart's *The Neurobiology of Cognition and Behavior* is a superb text from one of the greatest minds in the field. He starts by offering a conceptual framework and lexicon in simple but elegant language that provide the student with a unique tool for plumbing the depths of cognitive neuroscience in a critical fashion.

Throughout the book, a respect for the history of the field is woven into a tapestry with recent lesion and neuroimaging work with an unmatched clarity. Although written in a language that will hold the interest of the neophyte, even the most seasoned cognitive neuroscientists teaching from this text will find novel and valuable insights. It is written in the engaging style we have come to expect from John Hart. I could not recommend any text more highly. Bravo!" --Bruce A. Crosson, PhD, Department of Neurology, Emory University School of Medicine, Atlanta, GA

"This exciting book, written and edited by an authority in the field, is a wonderful addition to neurology and psychiatry. ... This wonderfully instructive book covers cognitive neuroscience in behavioral neurology and neuropsychiatry. Anyone interested in behavioral/cognitive neurology, cognitive neuroscience, psychiatry, or neuropsychiatry ought to read it." --Doody's Health Sciences Book Review

#### About the Author

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Professor of Behavioral and Brain Sciences  
Medical Science Director, The Center for Brain Health  
The University of Texas at Dallas

#### Users Review

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