



Principles of Frontal Lobe Function

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The second edition of *Principles of Frontal Lobe Function* is a newly organized, and thoroughly updated, volume divided into 9 different sections, each co-edited by leaders in the specific domain of frontal lobe research. The topic areas include anatomy and neuropharmacology, development, systems and models, fundamental cognitive mechanisms, social behavior, clinical neuropsychology, aging, psychiatric disorders, and rehabilitation. This organization reflects both an increase in our combined knowledge about frontal lobe functioning through new imaging technologies, as well as the expansion of the field as a whole to include new topics such as social neuroscience that were not discussed in the first edition.

Principles of Frontal Lobe Function will naturally be of particular interest to researchers and clinicians actively investigating how the frontal lobes operate and to understand dysfunction as a means to design treatment. This new edition will also be a useful resource for anyone involved in a discipline related to brain function, whether it be cognitive neuroscience, behavioral neurology, neuropsychiatry, neuropsychology, or neurorehabilitation. Our knowledge of how the frontal lobes are integrated with functioning in every other region of the brain is also integrating our approach to solving brain-based problems.

Authors in this volume represent investigators who are deep-rooted in frontal lobe research. As such, students will be exposed to both the classical and frontier perspectives and will gain significant insight into future research directions of what we believe to be the most fascinating area of the brain.

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Editorial Review

Review

"Principles of Frontal Lobe Function by Don Stuss and Bob Knight delivers on its title, integrating contemporary cognitive neuroscience with frontal lobe development, neurochemistry, social cognition, anatomy, and neuropsychology. *Principles* provides a comprehensive, integrated view of frontal lobe function across the human life span. *Principles* is a terrific source of information to guide both the novice and the authority looking for an up-to-date summary of our understanding of the frontal lobes."

-- Jeffrey L. Cummings, M.D., Sc.D., Director, Lou Ruvo Center for Brain Health, Camille and Larry Ruvo Chair for Brain Health, Cleveland Clinic, 888 W Bonneville Ave, Las Vegas, NV

"More than 150 years after Phineas Gage, the frontal lobes continue to bewilder. Will a unified principle eventually emerge, or is the current functional mosaic irreducible? If the latter, will the final canvas resemble a Pollock or a Mondrian? This timely volume, building upon the justified fame of its first edition, takes the ongoing exploration of prefrontal cortex to new levels of sophistication."

-- M-Marsel Mesulam, MD, Cognitive Neurology and Alzheimer's Disease Center, Northwestern University, Chicago, IL

"The frontal cortex comprises about one third of the human cerebral cortex, and is double the size of our closest ape relatives. This highly evolved portion of our brain is anatomically and physiologically complex and it mediates a variety of important neuropsychological functions. Frontal dysfunction, which can be caused by many diseases, has devastating consequences and thus, detailed and current information about frontal lobe function and dysfunction is critical knowledge for the clinician and basic scientist. This Second Edition is a well written, multi-authored classic text that provides the reader with this important knowledge."

-- Kenneth M. Heilman MD, The James E. Rooks Jr. Distinguished Professor, Department of Neurology, University of Florida College of Medicine, Gainesville, FL

"Ten years ago, Stuss and Knight edited the definitive reference on prefrontal function. This new, eagerly awaited successor is chock full of the latest findings on prefrontal anatomy, physiology, and function. The prefrontal roles in social behavior, development, executive function, attention, and memory are all nicely covered by the experts in their respective areas. Best of all, the contributors do not merely review the new literature, but clearly express their own points of view, providing the reader with a feast of fresh new ideas."

-- Robert Desimone, PhD, Director, McGovern Institute for Brain Research at MIT, Doris and Don Berkey Professor of Neuroscience, Massachusetts Institute of Technology, Cambridge, MA

"Principles of Frontal Lobe Function by Stuss and Knight reflects the continuing evolution of our understanding of frontal lobe, and incorporates the wealth of new knowledge that has been made possible by

technological advances in cellular and molecular neuroscience, functional and structural imaging, neurochemistry and microcircuitry. This second edition captures the broadened perspective of frontal lobe function to include constructs that far exceed our traditional focus on executive functions... This volume should be required for students, clinical and basic neuroscientists, and anyone with an interest in brain function. The comprehensive approach and integration of such a broad body of knowledge sets a model and a standard by which other volumes about brain function should be measured."

-- Robert A. Bornstein, PhD, Vice Dean for Academic Affairs, The Ohio State University College of Medicine, Columbus, Ohio

"This book with 45 chapters organized into nine sections has so much more information than what was contained in the 34 chapters of the first edition published in 2002...New methods of observing and imaging the structural and functional parts of the frontal lobe of the human brain and monkey brains has led to gathering a massive amount of new data, which in turn has increased the knowledge base and insight currently available on this part of the human brain." -- *Biz India*

"This is a marvelously updated edition of a classic reference on the frontal lobes. Anyone interested in the brain and behavior should be referring to this book. I highly recommend it!" -- Michael Joel Schrift, DO, MA, *Doody's*

"With some 90 contributors, including section editors and coeditors, the range of topics covered in this tome is vast.... New methods of observing and imaging the structural and functional parts of the frontal lobe of the human brain and monkey brains has led to gathering a massive amount of new data, which in turn has increased the knowledge base and insight currently available on this part of the human brain. The new research uncovered in this book can be helpful to specialists involved in treating patients with frontal lobe dysfunction, including neurological and psychiatric disorders such as multiple sclerosis, obsessive-compulsive behavior, traumatic brain injury, and white matter disease." -- *BizIndia*

About the Author

Donald T. Stuss, Ph.D., C. Psych., ABPP-CN, Order of Ontario, FRSC, FCAHS, is the founding (2011) President and Scientific Director of the Ontario Brain Institute; a Senior Scientist at the Rotman Research Institute of Baycrest Centre; University of Toronto Professor of Medicine (Neurology and Rehabilitation Science) and Psychology; founding Director of the Rotman Research Institute at Baycrest 1989 - 2008. His research focuses on understanding and treating the cognitive functions and personality changes associated with the frontal lobes as they occur after stroke, normal elderly, and in those with traumatic brain injury or dementia. He has one co-authored book, and four co-edited books; over 190 publications and 48 chapters; and presented over 250 invited scientific lectures and workshops. His publications have been cited over 13,000 times, with an H index of 58.

Robert T. Knight, MD, received a degree in Physics from the Illinois Institute of Technology, an MD from

Northwestern University Medical School, obtained Neurology training at UCSD and did post-doctoral work at the Salk Institute for Biological Studies. He was a faculty member in the Department of Neurology at UC Davis School of Medicine from 1980-1998 and moved to UC Berkeley in 1998 serving as Director of the Helen Wills Neuroscience Institute from 2001 until 2011. His laboratory utilizes electrophysiological techniques in neurological and neurosurgical patients to delineate the role of prefrontal cortex in human cognitive. His laboratory also records electrocorticographic activity from neurosurgical patients with subdural electrodes to delineate cortical mechanisms of behavior as well as for development of neural prosthesis for motor and language restoration.. He founded the UC Berkeley-UCSF Center for Neural Engineering and Prosthesis in 2010. Dr. Knight received the Jacob Javits Award from the National Institute of Neurological Disorders and Stroke for distinguished contributions to understanding neurological disorders, the IBM Cognitive Computing Award and the Humboldt Prize in Neurobiology. His H index is 67.

Users Review

From reader reviews:

Steve Adams:

Why don't make it to become your habit? Right now, try to ready your time to do the important behave, like looking for your favorite guide and reading a guide. Beside you can solve your long lasting problem; you can add your knowledge by the book entitled Principles of Frontal Lobe Function. Try to make the book Principles of Frontal Lobe Function as your pal. It means that it can being your friend when you experience alone and beside that course make you smarter than ever before. Yeah, it is very fortuned in your case. The book makes you a lot more confidence because you can know every thing by the book. So , let me make new experience as well as knowledge with this book.

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