



# Subcortical Structures and Cognition: Implications for Neuropsychological Assessment

*By Leonard F. Koziol, Deborah Ely Budding*

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Subcortical Structures and Cognition is written for maximum clinical applicability, making it important practical reading. It is the first book to discuss the cognitive and emotional aspects of subcortical pathology at the level of clinical neuropsychology.

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### Editorial Review

#### Review

From the reviews: "Given its broad coverage and the clarity of writing, it should be very valuable for graduate students and in courses. This book opens the door to creativity by inviting neuropsychologists to develop new methodologies of investigations, following the demonstration that the cortico-centric model of cognition is no longer tenable. The authors have made a great job in bringing complex issues into simple and meaningful lines." (M.-U. Manto, *The Cerebellum*, Published online: 10 September 2009) "Drs. Koziol and Budding have written a highly readable and thought-provoking book that will challenge the reader's current knowledge and help one to look beneath the surface. It is a must read for ... neuropsychologist and should be on the reading list for every neuropsychology graduate student. ... It is interesting to ponder ... if this text becomes a standard in the neuropsychological training curriculum. ... this book will assuredly give the reader a 'deeper' understanding of the brain." (William S. MacAllister, *The Clinical Neuropsychologist*, Issue 1-3, 2009) "This is a fine summary of a great deal of literature on the basal ganglia and cerebellum and of their intimate relationships with the cortical forebrain. ... This book applies a long overdue corrective to a discipline that in some sense has been blinded by the simplistic corticocentric view of brain function. If the book prompts neuropsychologists to read outside their traditionally rather constricted domains (the neuropsychological testing literature) and to more fully explore other domains of neuroscience, it will have performed a double service. I recommend it highly." (Douglas F. Watt, Harvard Medical School, *Archives of Clinical Neuropsychology* 25 (2010) 153–155)

From the Back Cover

Subcortical Structures and Cognition

Implications for Neuropsychological Assessment

Leonard F. Koziol, Private Practice, Arlington Heights, Illinois

Deborah Ely Budding, Private Practice, Manhattan Beach, California

The study of neuropsychology traditionally begins with geography: the neocortex as the seat of cognition and behavior, and the subcortical regions coordinating movement. *Subcortical Structures and Cognition* breaks with this traditional view, arguing for a practice-oriented rethinking of brain organization.

The authors' structural/functional analysis redefines the cerebral hemispheres, basal ganglia, and cerebellum as operating in parallel to control cognition, affect, and behavior as well as movement. Case studies and empirical data flesh out this intricate scenario, linking pathology in subcortical structures with psychiatric, learning, and developmental disabilities. These findings are at the forefront of clinical research, significant not only in theoretical terms but also leading to new advances in testing, assessment, and treatment.

## Highlights of the book:

1. The shift from cortex-centered to cortical-subcortical neuropsychology.
2. Functional anatomy of the cerebellum and basal ganglia, and their roles in cognition, emotion, and behavior.
3. The neuroanatomy of experiential and reinforcement-based learning.
4. Review of cognition as an extension of the motor control system.
5. Cases illustrating the relationships between cortical and subcortical systems in various types of pathology.
6. The current state of neuropsychological assessment.
7. Results of experimental studies, including imaging technologies.
8. Future directions for neuropsychology, neurology, and related fields.

The only book of its kind, *Subcortical Structures and Cognition* is written for maximum clinical applicability, making it important practical reading for neuropsychologists, rehabilitation specialists, speech, occupational, and physical therapists, cognitive neuroscientists, and psychiatrists.

## About the Author

Dr. Leonard F. Koziol is a clinical psychologist with specialty board certifications in Neuropsychology and Pediatric Neuropsychology. He works with children, adolescents, and adults with attention or concentration problems, memory loss, or learning disabilities. Dr. Koziol has served as a forensic psychologist expert in legal proceedings. Dr. Koziol is currently part of the Clinical Faculty at Chicago Medical School, Finch University Hospital Clinic, North Chicago, IL; the Consulting Neuropsychology Faculty at Fielding Institute, Santa Barbara, CA; and the Adult Faculty at Illinois School of Professional Psychology, IL, from where he is also a Professional Psychology graduate. His awards include: *Fellow, National Academy of Neuropsychology* – 2004; and *Fellow, American College of Professional Neuropsychology* – 1995.

Deborah Ely Budding is a clinical neuropsychologist practicing in Southern California. She worked as a writer and editor prior to training as a psychologist and neuropsychologist. She specializes in evaluating children, adolescents and adults with neurodevelopmental disorders and has a particular interest in integrating emotional and cognitive, as well as conscious and unconscious aspects of function. She holds specialty board certifications in Neuropsychology and Pediatric Neuropsychology.

## **Users Review**

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