



Brain and Behavior: A Cognitive Neuroscience Perspective

By David Eagleman, Jonathan Downar

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Brain and Behavior: A Cognitive Neuroscience Perspective addresses the central aims of cognitive neuroscience, seeking to examine the brain not only by its components but also by their functions. It highlights the principles, discoveries, and remaining mysteries of modern cognitive neuroscience.

Brain and Behavior covers a wide swath of territory critical for understanding the brain, from the basics of the nervous system, to sensory and motor systems, sleep, language, memory, emotions and motivation, social cognition, and brain disorders. Throughout the narrative, the authors emphasize the dynamically changing nature of the brain, through the mechanisms of neuroplasticity. Wherever possible, they refer to elements of neuroscience that are encountered in everyday life. Key points and concepts are illustrated using case studies of rare but illuminating brain disorders. *Brain and Behavior* pulls together the best current knowledge about the brain while acknowledging current areas of ignorance and pointing students towards the most promising directions for future research.

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Editorial Review

Review

"The Neuroplasticity chapter contains all of the information that is contained in the Cognitive Neuroscience book I currently use, and goes well beyond that book. I love the seamless integration of human, animal, and cellular levels of analysis. The case studies are gripping. The writing is excellent and engaging and the figures are beautiful."

--Scott Slotnick, Boston College

"This is a very well-written, up-to-date, and well-thought-out book on cognitive neuroscience. Particularly impressive is the inclusion of chapters not included in most cognitive neuroscience textbooks. These include psychiatric disorders and addiction."

--Arne Ekstrom, University of California, Davis

"I'm impressed by how well the book is tailored to an undergraduate course, both in its scope and in its content. The writing is more clear and digestible for an undergraduate audience than most neuroscience books."

--Vonetta Dotson, University of Florida

"I like the authors' approach. They ask intriguing, meaningful questions and write clearly. They express wonder at new methods in neuroscience that are answering questions of how mind can emerge from the action of interconnected neurons. Their use of case studies and features keep the text moving."

--Lewis Barker, Auburn University

About the Author

David Eagleman is a neuroscientist, New York Times best-selling author, and Guggenheim Fellow who holds joint appointments in the Departments of Neuroscience and Psychiatry at Baylor College of Medicine in Houston, Texas. Dr. Eagleman's areas of research include time perception, vision, synesthesia, and the intersection of neuroscience with the legal system.

Jonathan Downar is the director of the MRI-Guided rTMS Clinic at the University Health Network Hospital in Toronto, Canada, and a scientist at the Toronto Western Research Institute. He currently holds appointments with the Department of Psychiatry and the Institute of Medical Science at the University of Toronto.

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