



Cognitive Enhancement: Pharmacologic, Environmental and Genetic Factors

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Cognitive Enhancement: Pharmacologic, Environmental and Genetic Factors addresses the gap that exists in research on the topic, gathering multidisciplinary knowledge and tools that help the reader understand the basics of cognitive enhancement. It also provides assistance in designing procedures and pharmacological approaches to further the use of novel cognitive enhancers, a field that offers potential benefit to a variety of populations, including those with neurologic and psychiatric disorders, mild aging-related cognitive impairment, and those who want to improve intellectual performance.

The text builds on our knowledge of the molecular/cellular basis of cognitive function, offering the technological developments that may soon enhance cognition. Separate sections cover enhancement drugs, environmental conditions, and genetic factors in terms of both human and animal studies, including both healthy/young and aging/diseased individuals.

- Provides a multidisciplinary knowledge, enabling a further understanding of cognitive enhancement
- Offers coverage of the pharmacologic, environmental, and genetic factors relevant to the topic
- Discusses cognitive enhancement from the perspective of both healthy and diseased or aging populations
- Topics are discussed in terms of both human and animal studies

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Editorial Review

Review

"This is an important and timely addition to the multidisciplinary field that has arisen to address the problems of cognitive decline and the competition for limited resources. Score: 98 - 5 Stars" --**Doody's**

From the Back Cover

Cognitive enhancement offers a potential benefit to a variety of populations: neurologic and psychiatric disorders are associated with cognitive impairment, a growing population suffers from mild aging-related cognitive impairment, and those with normal functioning may desire improvement of intellectual performance. While there has been a substantial increase in research tools allowing for multiple-level analysis of cognition, building our knowledge of the molecular/cellular basis of cognitive function and offering the possibility technological development to enhance cognition, there is currently a gap in coverage in the research market. This volume addresses that gap, gathering multidisciplinary knowledge and providing tools for understanding the basics of cognitive enhancement and assistance in designing procedures/pharmacological approaches to further the use of novel cognitive enhancers. Separate sections are presented on enhancement drugs, environmental conditions and genetic factors, as well as on enhancement with regard to specific diseases. These topics are discussed in terms of both human and animal studies, and with regard to both healthy/young and aging/diseased individuals.

About the Author

Shira Knafo is the head of the Molecular Cognition Laboratory and an Ikerbasque research professor at The University of the Basque Country (Biophysics Unit, Leioa). Her particular interests are in studying the molecular and synaptic mechanisms underlying learning and memory processes, cognitive malfunction and cognitive enhancement. Her experience in different scientific disciplines (medicine, animal behaviour, electrophysiology, molecular biology, morphology and imaging) allows her to adopt a multidisciplinary approach that is considered a great asset in modern neuroscience research. In 2012, she was awarded the Sieratzki Prize for Advances in Neuroscience (Tel-Aviv University) for her contributions in the field of cognitive neuroscience. In the same year, the Spanish National Research Council acknowledged her achievements in its annual tribute to its scientists. In 2013, the Spanish Ministry of Science awarded her an I3 certificate of excellence.

Associate Professor, Department of Psychopharmacology at the Universidad de Educación a Distancia in Spain and is Director of the Lab for Neurobiology of Stress and Neurodegenerative Diseases. He has authored two books on psychopharmacology and memory work. He co-chaired the "Cognitive Enhancement in Health and Disease" symposium at the 2012 Federation for European Neuroscience annual meeting.

Users Review

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Louis Jackson:

Reading a reserve tends to be new life style on this era globalization. With looking at you can get a lot of information that can give you benefit in your life. Using book everyone in this world can share their idea. Books can also inspire a lot of people. Plenty of author can inspire all their reader with their story or perhaps

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Richard Riggins:

Precisely why? Because this Cognitive Enhancement: Pharmacologic, Environmental and Genetic Factors is an unordinary book that the inside of the guide waiting for you to snap that but latter it will jolt you with the secret the idea inside. Reading this book close to it was fantastic author who else write the book in such remarkable way makes the content interior easier to understand, entertaining way but still convey the meaning entirely. So , it is good for you because of not hesitating having this any longer or you going to regret it. This excellent book will give you a lot of advantages than the other book include such as help improving your talent and your critical thinking approach. So , still want to hold up having that book? If I have been you I will go to the publication store hurriedly.

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