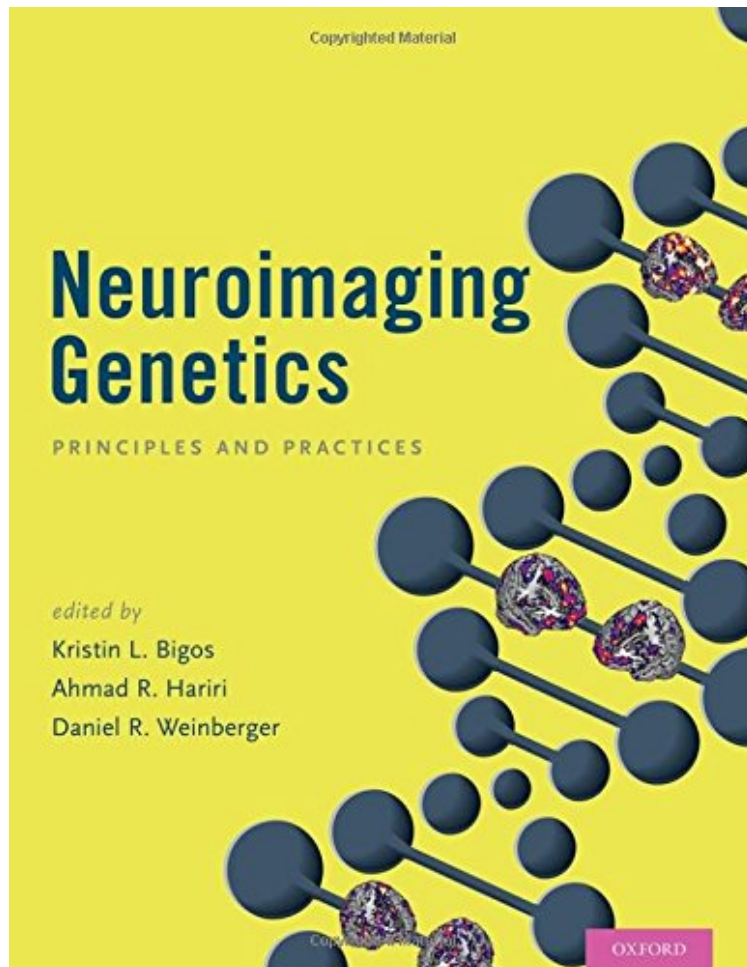


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# Neuroimaging Genetics: Principles and Practices

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**From Oxford University Press : Neuroimaging Genetics: Principles and Practices** before purchasing it in order to gage whether or not it would be worth my time, and all praised Neuroimaging Genetics: Principles and Practices:

The field of neuroimaging genetics has grown exponentially over the past decade. To date there are more than 10,000 published papers involving MRI, PET, MEG and genetics. Neuroimaging Genetics: Principles and Practices is the comprehensive volume edited by Drs. Bigos, Hariri, and Weinberger and co-authored by the preeminent scholars in the field. This text reviews the basic principles of neuroimaging techniques and their application to neuroimaging genetics. The work presented in this volume elaborates on the explosive interest from diverse research areas in psychiatry and neurology in the use of imaging genetics as a unique tool to establish and identify mechanisms of risk, establish biological significance, and extend statistical evidence of genetic associations. Examples throughout

highlight the application of imaging genetics to understand neurochemical systems and pathways, explore relationships between genetics and the structural and functional connectivity in human brain, and provide insight into mechanisms of risk for psychiatric and neurologic illness.

"Neuroimaging Genetics: Principles and Practice edited by Bigos, Hariri and Weinberger is the first volume in the field devoted to this burgeoning area of research. It brings together many of the pioneering investigators in the field who collectively summarize the history and current state of the art... [and] includes both chapters on specific neurochemically defined circuits including serotonin and dopamine, as well as those that are more disease specific, e.g schizophrenia, Williams syndrome, anxiety disorders and bipolar disorder. ... For the interdisciplinary investigator/student at the interface of genetics, neuroradiology, psychiatry, and neurology, this will be an enjoyable, informative read." --Charles B. Nemeroff, MD, PhD, Leonard M. Miller Professor and Chairman, Department of Psychiatry and Behavioral Sciences, Director, Center on Aging, Leonard M. Miller School of Medicine, University of Miami, FL "In the few years since this method was initially conceived, imaging genetics has emerged as a valuable tool to understand mechanisms of psychiatric disease, understanding how genes work on the level of brain, and to guide the search for new treatments. ... Scholarly and practical at the same time, this book will be an asset to the library of researchers in psychiatry, neuroscience, and genetics, as well as for practitioners curious where the research frontier now lies." --Andreas Meyer-Lindenberg, MD, Director and CEO, Central Institute of Mental Health, Mannheim; and Chair of Psychiatry and Psychotherapy, University of Heidelberg / Medical Faculty Mannheim, Germany About the Author Kristin L. Bigos is Investigator at the Lieber Institute for Brain Development and Assistant Professor of Medicine in the Division of Clinical Pharmacology at Johns Hopkins School of Medicine. Ahmad R. Hariri is a Professor in the Department of Psychology and Neuroscience at Duke University. Daniel R. Weinberger is Director and CEO at the Lieber Institute for Brain Development and Professor of Psychiatry and Behavioral Sciences at Johns Hopkins School of Medicine.