



Psychiatry, Psychoanalysis, and the New Biology of Mind

By Eric Kandel



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Brought together for the first time in a single volume, these eight important and fascinating essays by Nobel Prize-winning psychiatrist Eric Kandel provide a breakthrough perspective on how biology has influenced modern psychiatric thought. Complete with commentaries by experts in the field, Psychiatry, Psychoanalysis, and the New Biology of Mind reflects the author's evolving view of how biology has revolutionized psychiatry and psychology and how potentially could alter modern psychoanalytic thought.

The author's unique perspective on both psychoanalysis and biological research has led to breakthroughs in our thinking about neurobiology, psychiatry, and psychoanalysis -- all driven by the central idea that a fuller understanding of the biological processes of learning and memory can illuminate our understanding of behavior and its disorders. These wonderful essays cover - the mechanisms of psychotherapy and medications, showing that both work at the same level of neural circuits and synapses, and the implications of neurobiological research for psychotherapy;- the ability to detect functional changes in the brain after psychotherapy, which enables us, for the first time, to objectively evaluate the effects of psychotherapy on individual patients;- the need for animal models of mental disorders; for example, learned fear, to show how molecules and cellular mechanisms for learning and memory can be combined in various ways to produce a range of adaptive and maladaptive behaviors;- the unification of behavioral psychology, cognitive psychology, neuroscience, and molecular biology into the new science of the mind, charted in two seminal reports on neurobiology and molecular biology given in 1983 and 2000;- the critical role of synapses and synaptic strength in both short- and long-term learning;- the biological and social implications of the mapping of the human genome for medicine in general and for psychiatry and mental health in particular;

The author concludes by calling for a revolution in psychiatry, one that can use the power of biology and cognitive psychology to treat the many mentally ill persons who do not benefit from drug therapy.

Fascinating reading for psychiatrists, psychoanalysts, social workers, residents in psychiatry, and trainees in psychoanalysis, Psychiatry, Psychoanalysis, and the New Biology of Mind records with elegant precision the monumental changes taking place in psychiatric thinking. It is an invaluable reference work and a treasured resource for thinking about the future.

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Editorial Review

Review

"["Psychiatry, Psychoanalysis, and the New Biology of the Mind"] will open your eyes to the impressive advances made at the molecular, cellular and systemic level in understanding one of the salient functions of the brain. Kandel writes clearly and with a generous use of illustrations."- "British Journal of Psychiatry," "2006"

" "Psychiatry, Psychoanalysis, and the New Biology of Mind" is a celebration of breakthroughs in neural science, the biology of the mind. The book highlights author Eric R. Kandel's role as chief architect and laborer in the construction of a casual link between molecular biology and psychiatry."- "Science and Theology News," "October 2005"

"This book should facilitate an excitement about understanding brain and behavior. College students, residents, and graduate students would all benefit from reading and discussion Kandel's ideas. It is obvious that Kandel is a good therapist; his writings make us all feel good about our own work and the work of our colleagues!"- "PsyncCRITIQUES," "August 2005"

"This is an outstanding new book containing a collection of essays written by Eric Kandel, M. D., the Nobel Prize-winning psychiatrist-neurobiologist. He has been an instrumental figure in the paradigm shift that has occurred in psychiatry over the past 20 to 30 years, from being based on psychoanalytic theory to, now, neuroscience.... If you were going to read only one book on the current thinking in psychiatry, I recommend this one. Thank you, Dr. Kandel!"- "Doody's Book Review Service," "September 2005"

"This Nobel laureate's scientific path through the structures of the mind intrigues, entices, and rewards the explorer-reader much as clinical complexities of the mind demand our attention and draw patients to make changes. Dr. Kandel's path, though, uniquely teaches us the (currently) absolute neurological truths about how our mentation changes.... To miss this volume is to wander in the dark. The reader will find the pleasure of discovery on every page, with outstanding illustrations and explanations that make this path irresistible. An exhaustive and helpful index spans all 8 lectures as one whole. This reader can't wait to go back and walk that whole path with Dr. Kandel again. Everyone in our profession should share this experience."-- "Journal of Clinical Psychiatry", "January 2006"

"This book should facilitate an excitement about understanding brain and behavior. College students, residents, and graduate students would all benefit from reading and discussion Kandel's ideas. It is obvious that Kandel is a good therapist; his writings make us all feel good about our own work and the work of our colleagues!"-- "PsyncCRITIQUES", "August 2005"

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"The chapters and commentaries reveal how much has happened in neuroscience during the last 50 years. Those unfamiliar with the discoveries could use this book as a text, and those with a passing acquaintance with modern neuroscience will find out how much they have missed."-- "Journal of Mental and Nervous Disease", "June 2006"

"["Psychiatry, Psychoanalysis, and the New Biology of the Mind"] will open your eyes to the impressive advances made at the molecular, cellular and systemic level in understanding one of the salient functions of the brain. Kandel writes clearly and with a generous use of illustrations."-- "British Journal of Psychiatry", "2006"

"In "Psychiatry, Psychoanalysis, and the New Biology of the Mind", Eric R. Kandel M.D., invites the reader to accompany him on one of the most important, relevant and exciting journeys of our era: how he has used his own superb mind to explore how the minds of all of us work. We are guided on this intimate and exciting excursion not only by Dr. Kandel but also by other prominent pioneers in the investigation of the human mind, in both function and dysfunction. This path of discovery takes unpredictable twists and routes from pre-World War II Austria, where Eric Kandel was born, to Dr. Kandel's formative, psychoanalytically-oriented experiences in medical school and his psychiatry residency at Harvard's Massachusetts Mental Health Center, to his research training at the National Institute of Mental Health, to Columbia University College of Physicians and Surgeons, where he has been studying for three decades the molecules in the brains of the sea snail, "Aplysia" californicus. Dr. Kandel's personal, intellectual, and academic excursion represents the progress and potential of the fields of psychiatry, psychology and the behavioral sciences in integrating the understanding of mind and brain towards the purpose of helping those among us who suffer from mental disorders. As such, I recommend "Psychiatry, Psychoanalysis, and the New Biology of the Mind" as mandatory (albeit, altogether enjoyable) reading for all mental health professionals and for anyone else wishing to understand where science is taking us in the understanding the role of the brain and biology in mental processes and the human condition."-- "Stuart C. Yudofsky, M.D., D.C. and Irene Ellwood Professor and Chairman, The Menninger Department of Psychiatry and Behavioral Sciences, Baylor College of Medicine, Houston, Texas"

"Eric Kandel, the greatest psychiatrist-neurobiologist of the past half-century, cracked open the 'black box' of the neural mechanisms of learning and memory. His work and what has flowed from it has implications for psychiatry which parallel those that the breaking of the genetic code had for the field of molecular biology. The conceptions and framework which developed from the work of Kandel will provide key underpinnings of psychiatry for the next half century. Every aspect of our field, from theory to therapeutics-- psychodynamic, behavioral, pharmacological--has gained from his approach. In this important and inspiring volume, some of Kandel's key integrative and forward looking papers related to the intersection of psychiatry, psychoanalysis, and neurobiology have been reproduced with thoughtful commentaries and perspectives by leaders in American psychiatry and behavioral science. A tour de force. Magnificent!"-- "Jack D. Barchas, M.D., Barklie McKee Henry Professor and Chair, Psychiatrist-in-Chief, Payne Whitney Manhattan and Westchester, Weill Medical College of Cornell University, New York-Presbyterian Hospital"

From the Inside Flap

Brought together for the first time in a single volume, these eight important and fascinating essays by Nobel Prize-winning psychiatrist Eric Kandel provide a breakthrough perspective on how biology has influenced modern psychiatric thought. Complete with commentaries by experts in the field, *Psychiatry, Psychoanalysis, and the New Biology of Mind* reflects the author's evolving view of how biology has revolutionized psychiatry and psychology and how it potentially could alter modern psychoanalytic thought.

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About the Author

Eric R. Kandel, M.D., is University Professor at Columbia University, Fred Kavli Professor and Director at the Kavli Institute for Brain Sciences, and a Senior Investigator at Howard Hughes Medical Institute. A graduate of Harvard College and NYU School of Medicine, Dr. Kandel trained in Neurobiology at the NIH and in Psychiatry at Harvard Medical School. He joined the faculty of the College of Physicians and Surgeons at Columbia University in 1974 as the founding director of the Center for Neurobiology and Behavior.

Dr. Kandel's research has been concerned with the molecular mechanisms of memory storage in *Aplysia* and mice. Dr. Kandel has received thirteen honorary degrees, is a member of the U.S. National Academy of Sciences as well as the National Science Academies of Germany and France. He has been recognized with the Albert Lasker Award, the Heineken Award of the Netherlands, the Gairdner Award of Canada, the Wolf Prize of Israel, the National Medal of Science of the USA, and the Nobel Prize for Physiology or Medicine in 2000.

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Ronald Griffin:

The book untitled Psychiatry, Psychoanalysis, and the New Biology of Mind contain a lot of information on it. The writer explains the girl idea with easy approach. The language is very straightforward all the people, so do not really worry, you can easy to read the item. The book was compiled by famous author. The author will take you in the new period of time of literary works. You can easily read this book because you can please read on your smart phone, or gadget, so you can read the book within anywhere and anytime. If you want to buy the e-book, you can wide open their official web-site as well as order it. Have a nice learn.

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This Psychiatry, Psychoanalysis, and the New Biology of Mind is brand new way for you who has intense curiosity to look for some information as it relief your hunger associated with. Getting deeper you on it getting knowledge more you know or perhaps you who still having bit of digest in reading this Psychiatry, Psychoanalysis, and the New Biology of Mind can be the light food for you personally because the information inside this particular book is easy to get simply by anyone. These books develop itself in the form that is reachable by anyone, yes I mean in the e-book application form. People who think that in reserve form make them feel tired even dizzy this publication is the answer. So you cannot find any in reading a book especially this one. You can find what you are looking for. It should be here for anyone. So , don't miss it! Just read this e-book sort for your better life and also knowledge.

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