



# Neurobiology of Mental Illness

By *Eric J. Nestler*

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The new edition of this definitive textbook reflects the continuing reintegration of psychiatry into the mainstream of biomedical science. The research tools that are transforming other branches of medicine - epidemiology, genetics, molecular biology, imaging, and medicinal chemistry - are also transforming psychiatry. The field stands poised to make dramatic advances in defining disease pathogenesis, developing diagnostic methods capable of identifying specific and valid disease entities, discovering novel and more effective treatments, and ultimately preventing psychiatric disorders. The *Neurobiology of Mental Illness* is written by world-renowned experts in basic neuroscience and the pathophysiology and treatment of psychiatric disorders. It begins with a succinct overview of the basic neurosciences followed by an evaluation of the tools that are available for the study of mental disorders in humans. The core of the book is a series of consistently organized sections on the major psychiatric disorders that cover their diagnostic classification, molecular genetics, functional neuroanatomy, neurochemistry and pharmacology, neuroimaging, and principles of pharmacotherapy. Chapters are written in a clear style that is easily accessible to practicing psychiatrists, and yet they are detailed enough to interest researchers and academics.

For this second edition, every section has been thoroughly updated, and 13 new chapters have been added in areas where significant advances have been made, including functional genomics and animal models of illness; epidemiology; cognitive neuroscience; postmortem investigation of human brain; drug discovery methods for psychiatric disorders; the neurobiology of schizophrenia; animal models of anxiety disorders; neuroimaging studies of anxiety disorders; developmental neurobiology and childhood onset of psychiatric disorders; the neurobiology of mental retardation; the interface between neurological and psychiatric disorders; the neurobiology of circadian rhythms; and the neurobiology of sleep disorders. Both as a textbook and a reference work, *Neurobiology of Mental Illness* represents a uniquely valuable resource for psychiatrists, neuroscientists, and their students or trainees.

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## Neurobiology of Mental Illness By Eric J. Nestler Bibliography

- Sales Rank: #2608856 in Books
- Published on: 2005-07-21
- Original language: English
- Number of items: 1
- Dimensions: 1.77" h x 8.69" w x 11.01" l, 6.36 pounds
- Binding: Paperback
- 1272 pages

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## **Editorial Review**

### Review

"The chapters are clearly and consistently written and attractively presented. This volume embodies a thoroughgoing materialism." -Cognitive Neuropsychiatry

### Praise for the First Edition:

"The authors are uniformly first rate...The discipline described here is a far cry from the psychiatry we grew up with. Sigmund Freud, a neurobiologist by training, would have been proud."--J.L. Nurnberger Jr., in The New England Journal of Medicine

"The editors deserve tremendous credit for compiling a most useful reference text, and I am not aware of a similar textbook that is anywhere as comprehensive, up-to-date, or focused on the basic science of our field. I think this book would be an excellent resource for psychiatric residents, early doctoral students in neurochemistry and the neurosciences, and psychiatric researchers interested in the basic underpinnings of mental disorders."--David L. Dunner in The American Journal of Psychiatry

"...an excellent book, well written and well edited...and packed with information. I found it thought-provoking and intensely educational."--Tim Betts in Brain

"Neurobiology of Mental Illness bridges the gap between the science and art of psychiatric medical practice and allows clinicians and researchers to see into each other's worlds." --JAMA

". . . well-written, neatly organized, and synthetic . . . a text of this sort is a requisite for any modern psychiatry residency curriculum . . . Neurobiology of Mental Illness bridges the gap between the science and art of psychiatric medical practice and allows clinicians and researchers to see into each other's worlds."--Steven J. Siegel, MD, PhD, in JAMA

"The book provides a well-written, neatly organized, and synthetic middle ground between a more comprehensive text of clinical psychiatry, as provided in Synopsis of Psychiatry...and basic neuroscience texts, such as Principles of Neuroscience..." JAMA

"...the best account to date of the neurobiology of mental disorders. It is an excellent source of reference but many of the chapters provide very good conceptual overviews that well deserve to be read as introductions to the field. A book to dip into for pleasure, as well as one to turn to in order to find out what is known on a particular topic."--Sir Michael Rutter in Trends in Neuroscience

### About the Author

Dennis S. Charney is at Mount Sinai School of Medicine, New York. Eric J. Nestler is at University of Texas Southwestern Medical Center, Dallas.

## **Users Review**

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#### **Connie Griffin:**

This Neurobiology of Mental Illness book is not really ordinary book, you have after that it the world is in

your hands. The benefit you obtain by reading this book is definitely information inside this publication incredible fresh, you will get facts which is getting deeper a person read a lot of information you will get. That Neurobiology of Mental Illness without we comprehend teach the one who reading it become critical in contemplating and analyzing. Don't end up being worry Neurobiology of Mental Illness can bring any time you are and not make your case space or bookshelves' come to be full because you can have it inside your lovely laptop even cell phone. This Neurobiology of Mental Illness having fine arrangement in word along with layout, so you will not sense uninterested in reading.

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