



Special Issue Reprint

Molecular Psychiatry

Edited By:

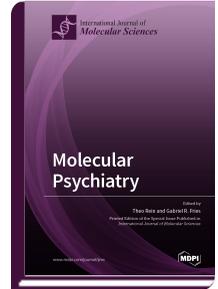
Theo Rein

Gabriel R. Fries

mdpi.com/books/pdfview/book/2461

ISBN 978-3-03936-120-5 (Hbk)

ISBN 978-3-03936-121-2 (PDF)



The book highlights important aspects of Molecular Psychiatry, including molecular mechanisms, animal models, biomarkers, advanced methods, drugs and antidepressant response, as well as genetics and epigenetics. Molecular mechanisms are a vital part of the search for the biological basis of psychiatric disorders, providing molecular hints that can later be tested as biomarkers or targets for drug development. Animal models represent a commonly used approach to aid in this bench-to-bed translation; the examples here are social defeat stress and the Roman High-Avoidance (RHA) and the Roman Low-Avoidance (RLA) rats. For biomarkers, psychiatric disorders pose a particular challenge due to the tissue specificity of many currently investigated biomarkers; i.e., not all blood-based measures directly represent changes in the brain. The Ebook includes five articles focused on the challenges of identifying clinically and biologically relevant biomarkers for psychiatric disorders.

Scientific progress typically is fostered by the development of new methods. The application of machine learning methods for the proper analysis of Big Data and induced pluripotent stem cells are examples outlined in this Ebook. Furthermore, three articles are devoted to the understanding of the mechanisms of actions of existing drugs with the ultimate goal of identifying ways to predict treatment response in patients. Finally, three articles deepen the insight into the genetics and epigenetics of psychiatric disorders.



Order Your Print Copy

Print copies (170x244mm, Pbk) can be ordered at:

www.mdpi.com/books/pdfview/book/2461

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis lieferbarer Bücher (VLB).



Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.