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Zhejiang University, China

*CORRESPONDENCE
Yasuto Kunii
✉ kunii@med.tohoku.ac.jp

RECEIVED 31 August 2023
ACCEPTED 13 September 2023
PUBLISHED 27 September 2023

CITATION
Kunii Y, Hino M and Tomita H (2023) Editorial:
Molecular pathology in psychiatric diseases:
frontiers of postmortem brain research.
Front. Psychiatry 14:1286182.
doi: 10.3389/fpsyg.2023.1286182

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Editorial: Molecular pathology in psychiatric diseases: frontiers of postmortem brain research

Yasuto Kunii^{1,2,3*}, Mizuki Hino¹ and Hiroaki Tomita^{1,2,3}

¹Department of Disaster Psychiatry, International Research Institute of Disaster Science, Tohoku University, Sendai, Japan, ²Department of Psychiatry, Tohoku University Hospital, Miyagi, Japan, ³Department of Psychiatry, Graduate School of Medicine, Tohoku University, Miyagi, Japan

KEYWORDS

schizophrenia, bipolar disorder, neuropsychiatric disorder, genetic, molecular, postmortem brain

Editorial on the Research Topic

Molecular pathology in psychiatric diseases: frontiers of postmortem brain research

Biological studies, including genetic, physiological, imaging, and animal model studies, on psychiatric diseases, such as schizophrenia and bipolar disorder, have been actively conducted in various directions, and the elucidation of their pathophysiology is currently advancing rapidly. In addition, several studies at the molecular level using postmortem brains have recently been conducted to validate the findings of the above studies. Postmortem brain studies on schizophrenia, which were rarely reported until the 1970s, have increased drastically since the 1990s, and especially since the 2000s. This increase is a result of reevaluating the significance of brain pathology in schizophrenia, as the antipsychotic mechanism of action highlights the brain regions such as the midbrain, striatum, limbic system, and cortical tracts involved in the dopamine neurotransmitter system, and progress of structural brain imaging research using CT and MRI, and functional brain imaging research using SPECT and PET. Thus, postmortem brain research on schizophrenia and bipolar disorder is currently very active, and due to recent remarkable technological innovations in the field of basic neuroscience, examinations at the molecular level, such as analysis of mRNA (1), proteins (2–6) and lipids (3) expressed in the brain, and brain-specific genomic polymorphisms, such as CNV (6) and DNA methylation (7) are rapidly being conducted. Against the background of these multifaceted developments in neuroscience and the ability to perform comprehensive analyses of small amounts of tissue samples, postmortem brain studies on psychiatric disorders have shifted from the traditional role of validating the results obtained in basic neuroscience studies to a more exploratory role of adding new findings and providing feedback for other approaches. Therefore, if postmortem brain research is the final aggregation point for validating the findings accumulated in genetic, imaging, and animal model studies, it may indicate that our biological understanding of schizophrenia and bipolar disorder is entering its final phase.

In this Research Topic, we aimed to present cutting-edge postmortem brain studies on the molecular pathogenesis of schizophrenia and other psychiatric disorders and discuss the potential of these studies for clinical translation. This Research Topic highlights the recent advances in molecular pathogenesis, its relevance to clinicians, and potential for therapeutic development. Sano *et al.* focused on the molecular pathways implicated in lipid-related molecules, whereas Sano *et al.* and Hagiwara *et al.* focused on dopamine-, glutamate-, and

Postmortem Brain In Psychiatric Research

**Dan J. Stein, David J. Kupfer, Alan F.
Schatzberg**



Postmortem Brain In Psychiatric Research:

The Postmortem Brain in Psychiatric Research Galila Agam,Ian P. Overall,Robert Haim Belmaker,2013-03-09 Because of the dearth of experimental animal models of psychiatric disorders the study of the effect of the disease state is only possible in tissue derived from patients vs controls especially in the target tissue of disease related changes in the brain The human postmortem brain offers the most appropriate experimental paradigm towards understanding the etiology of psychiatric disorders The availability of post mortem human samples from psychiatric patients and comparison groups in recent years has contributed prominently to the accumulating body of information leading to a better understanding of these disorders This is the first book to summarize this research approach and the meaningful data which has recently been acquired

Priorities in Psychiatric Research Malcolm Harold Lader,1980 The American Psychiatric Publishing Textbook of Mood Disorders Dan J. Stein,David J. Kupfer,Alan F. Schatzberg,2005 Presents the state of the art in diagnosis psychobiology pharmacotherapy and psychotherapy across the vast spectrum of mood disorders and includes a wealth of illustrations tables and references

Ethics in Psychiatric Research Harold Alan Pincus,Jeffrey A. Lieberman,Sandy Ferris,1999 Experts address the complexity of schizophrenia in a volume that leads readers from historical overview and epidemiology to consideration of comorbid conditions It covers genetic and environmental causes describes leading theories of schizophrenia and explores the involvement of abnormal brain circuitry and the latest neuroimaging studies *Brain Circuitry and Signaling in Psychiatry* Gary B. Kaplan,Ronald P. Hammer,2002 The 1990s appropriately termed the decade of the brain witnessed unprecedented advances in our knowledge of psychiatric neuroscience Yet with every advance we realized afresh that we were still in the beginning stages of a much longer journey This text chronicles the next step of that journey Structured around a proven teaching methodology that uniquely integrates the clinical aspects of psychiatric disorders with their neurobiology this volume begins with two introductory chapters on functional neural circuitry and neural signaling pathways The remaining six chapters present current knowledge on the neuroanatomic and neurochemical mechanisms underlying schizophrenia addiction anxiety depression bipolar disorder and dementia Alzheimer s disease For clarity and consistency each chapter features the same four divisions clinical presentation neural circuitry signaling pathways and psychopharmacology as they relate to Schizophrenia which reviews studies of the neural basis of schizophrenia and describes how the cortex the thalamus the basal ganglia and the medial temporal lobe work together during normal brain function and then how each is perturbed in psychosis Addiction which focuses on the consequences of psychoactive substance use including compulsive practices e g eating sex Internet browsing that might also involve the same brain circuits and signaling pathways Of exceptional value are two unique illustrations that capture for the first time much of what we know about the anatomy and neurochemistry underlying the behavioral symptoms of addiction Anxiety which presents current hypotheses regarding neurocircuitry and signaling pathways for the three best studied from a neurobiologic perspective anxiety

disorders panic disorder posttraumatic stress disorder and obsessive compulsive disorder Depression which offers evidence for the involvement of highly interconnected cortical and limbic structures such as the prefrontal cortex medial thalamus amygdala ventral striatum hippocampus and the hypothalamic pituitary adrenal axis in unipolar major depression and suggests target areas such as the cAMP pathway for study in the development of new antidepressants Bipolar disorder which shows that specific abnormalities in signal transduction pathways including protein kinase activity G protein levels and gene expression are unique to bipolar patients concluding that the actions of lithium and anticonvulsants on intracellular signaling pathways provide a new paradigm for novel pharmacological interventions Dementia and Alzheimer s disease which details current findings on neurofibrillary degeneration relevant genes and proteins pathogenesis metabolic decline defective cell repair and A toxicity and treatment strategies neurotransmitter replacement and neuroprotective and regenerative approaches Discusses frontotemporal dementia dementia with Lewy bodies Parkinson s disease and vascular dementia Meticulously researched and clearly written by 15 contributors all recognized experts from leading research and teaching institutions in the United States this compact and extensively illustrated volume stands out in the literature because it combines readability and practicality with the breadth and depth typically found only in far lengthier works Psychiatric practitioners residents and students alike will welcome this informative easy to read text which will also be of special interest to mental health and pharmaceutical industry professionals and of general interest to anyone who wants to know more about the biology of psychiatric illness

The American Journal of Psychiatry ,2002-04 **The Dopaminergic System in the Hippocampal Formation of the Macaca Fascicularis Monkey** Mirela Loftus,2001 **Psychiatric Neuroimaging Research** Darin D. Dougherty,Scott L. Rauch,2001 This ground breaking volume is structured around experimental paradigms including magnetic resonance imaging cognitive activation studies structural and functional imaging in vivo neuroreceptor imaging techniques and characterization magnetic resonance spectroscopy and transcranial magnetic stimulation

The Journal of NIH Research ,1990 The British Journal of Psychiatry ,1994-07 American Handbook of Psychiatry: Biological psychiatry Silvano Arieti,1974 Canadian Journal of Psychiatry ,2007 **Schizophrenia Bulletin** ,2004 Journal suisse de médecine ,1992 **Suicide and Aging** Jane L. Pearson,1996 This book addresses the need for more knowledge about the relationship between older age and suicide Based on a special issue of International Psychogeriatrics the volume explores the risk factors and clinical profiles of late life suicide in the hope of gaining a better understanding of this phenomenon Renowned international researchers examine how the aging process cultural factors cohort effects personality medical disorders and the concept of an individual s life course trajectory may contribute to suicide This book is of interest to professionals educators and graduate students in the social and health sciences including psychology psychiatry gerontology geriatrics nursing and sociology

American Book Publishing Record ,2002
Comprehensive Textbook of Psychiatry/V Harold I. Kaplan,Benjamin J. Sadock,Robert Cancro,1989 This extensively

revised encyclopedic work 192 sections 237 contributors is eclectic and multidisciplinary in approach The first section on the basic sciences is liberally sprinkled with clinical illustrations and applications Clinical chapters draw heavily on the basic sciences of psychiatry in describing the diagnosis and treatment of mental disorders Designed for students and clinicians who require a brief review of the behavioral sciences and general psychiatry in preparation for a variety of examination situations Includes a synopsis study guide and self examination review *The Journal of Mental Science* ,1949 *The Year Book of Psychiatry and Applied Mental Health*, 1988 Daniel X. Freedman,1988-03 **Transactions** Biochemical Society (Great Britain),2009

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Table of Contents Postmortem Brain In Psychiatric Research

1. Understanding the eBook Postmortem Brain In Psychiatric Research
 - The Rise of Digital Reading Postmortem Brain In Psychiatric Research
 - Advantages of eBooks Over Traditional Books
2. Identifying Postmortem Brain In Psychiatric Research
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Postmortem Brain In Psychiatric Research
 - User-Friendly Interface
4. Exploring eBook Recommendations from Postmortem Brain In Psychiatric Research

- Personalized Recommendations
- Postmortem Brain In Psychiatric Research User Reviews and Ratings
- Postmortem Brain In Psychiatric Research and Bestseller Lists
- 5. Accessing Postmortem Brain In Psychiatric Research Free and Paid eBooks
 - Postmortem Brain In Psychiatric Research Public Domain eBooks
 - Postmortem Brain In Psychiatric Research eBook Subscription Services
 - Postmortem Brain In Psychiatric Research Budget-Friendly Options
- 6. Navigating Postmortem Brain In Psychiatric Research eBook Formats
 - ePub, PDF, MOBI, and More
 - Postmortem Brain In Psychiatric Research Compatibility with Devices
 - Postmortem Brain In Psychiatric Research Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Postmortem Brain In Psychiatric Research
 - Highlighting and Note-Taking Postmortem Brain In Psychiatric Research
 - Interactive Elements Postmortem Brain In Psychiatric Research
- 8. Staying Engaged with Postmortem Brain In Psychiatric Research
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Postmortem Brain In Psychiatric Research
- 9. Balancing eBooks and Physical Books Postmortem Brain In Psychiatric Research
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Postmortem Brain In Psychiatric Research
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Postmortem Brain In Psychiatric Research
 - Setting Reading Goals Postmortem Brain In Psychiatric Research
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Postmortem Brain In Psychiatric Research

- Fact-Checking eBook Content of Postmortem Brain In Psychiatric Research
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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