



Disorders of synaptic plasticity and schizophrenia [

Smythies, John

Elsevier Academic Press,
2004

Electronic books

Monografía

Schizophrenia is a severe brain disorder that affects 1% of the population. Its cause is due to the interaction of a number of abnormal genes with environmental factors. This book summarizes new advances schizophrenia research that focus on the field of neural and synaptic plasticity. Synapses in the brain in schizophrenia show a wide range of disorders, both structural and functional. This volume covers the most active and promising of these new developments, and opens up new avenues for the treatment of schizophrenia.* Addresses new areas of research in neurotransmitters, receptors,

<https://rebiunoda.pro.baratznet.cloud:38443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMTk3MzM3MDA>

Título: Disorders of synaptic plasticity and schizophrenia electronic resource] edited by John Smythies

Editorial: San Diego Elsevier Academic Press 2004

Descripción física: 1 online resource (559 p.)

Variantes del título: International Review of Neurobiology International Review of Neurobiology, Volume 59C Disorders of Synaptic Plasticity and Schizophrenia , Volume 59C

Mención de serie: International review of neurobiology v. 59

Nota general: Description based upon print version of record

Bibliografía: Includes bibliographical referenes and index

Contenido: Cover; Contents; Contributors; Introduction; Chapter 1. Loss of Spines and Neuropil; I. Introduction; II. Dendrites, Spines, and Normal Plasticity; III. Effects of Estrogen on Plasticity; IV. Long-Term Potentiation and Learning; V. Alterations in Neuropil Components; VI. Alzheimer's Disease; VII. Human Immunodeficiency Virus Encephalitis; VIII. Huntington's Chorea; IX. Schizophrenia; X. Possible Link between Calcium and Dendritic Alterations; XI. Conclusion; References; Chapter 2. Schizophrenia as a Disorder of Neuroplasticity; I. Introduction; II. Clinical Features of Schizophrenia III. Synaptic Plasticity and SchizophreniaIV. Substrates of Neuroplasticity; V. Glutamatergic Dysfunction in Schizophrenia; VI. Conclusions; References; Chapter 3. The Synaptic Pathology of Schizophrenia: Is Aberrant Neurodevelopment and Plasticity to Blame?; I. Introduction; II. Studies of Proteins Associated with Synaptic Plasticity in Schizophrenia; III. Can the Synaptic Pathology of Schizophrenia Be Related to Changes in the Expression of Genes Involved in Development and Plasticity?; IV. Discussion and Future Directions; References Chapter 4. Neurochemical Basis for an Epigenetic Vision of Synaptic OrganizationI.

Introduction; II. Conceptual Background for the Definition of Phenotypes and Genotypes; III. Epigenetics and Evolution; IV. Biochemical Processes Included in Epigenetic Phenomena; V. Epigenetics and Synaptic Plasticity; VI. Epigenetics Today; VII. The Epigenetic Concept in Psychiatry; VIII. Conclusions; References; Chapter 5. Muscarinic Receptors in Schizophrenia: Is There a Role for Synaptic Plasticity?; I. Introduction; II. Muscarinic Receptors; III. Schizophrenia; IV. Synaptic Plasticity; References Chapter 6. Serotonin and Brain DevelopmentI. Introduction; II. The Discovery of Serotonin and Classification of Serotonin Receptors; III. The Role of Serotonin in Developmental Plasticity; IV. Manipulation of the Serotonergic System Alters Synaptic Plasticity; V. Does Dysfunction of Serotonergic Signaling Result in Impaired Brain Development?; VI. Conclusions; References; Chapter 7. Presynaptic Proteins and Schizophrenia; I. Introduction; II. Presynaptic Proteins; III. Are All Presynaptic Proteins Affected Equally within a Single Brain Region? IV. Are Different Brain Regions Affected Equally for a Given Presynaptic Protein?V. What Are the Relationships between mRNA and Protein Findings When Both Are Measured in the Same Study?; VI. Microarray Studies; VII. Summary; References; Chapter 8. Mitogen-Activated Protein Kinase Signaling; I. Introduction; II. Mitogen-Activated Protein (MAP) Kinase Cascades; III. Role of MAP Kinases in the Central Nervous System; IV. MAP Kinases of Schizophrenia; V. MAP Kinases in the Phencyclidine Rat Model of Schizophrenia; VI. MAP Kinases and Psychiatric Disorders; VII. Conclusions and Future Directions References

Lengua: English

ISBN: 1-281-11895-8 9786611118952 0-08-054862-8

Materia: Schizophrenia- Research Neuroplasticity

Autores: Smythies, John R. (John Raymond) (1922-)

Enlace a serie principal: International review of neurobiology (CKB)954926958890 (DLC)2011200620 (OCoLC) 61847738 2162-5514

Enlace a formato físico adicional: 0-12-366860-3

Punto acceso adicional serie-Título: International review of neurobiology

Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es