

1. Record Nr.	UNINA9910133684403321
Autore	Vink Robert
Titolo	Magnesium in the central nervous system // edited by Robert Vink, Mihai Nechifor [[electronic resource]]
Pubbl/distr/stampa	University of Adelaide Press, 2011 Adelaide : , : The University of Adelaide Press, , 2011
ISBN	0-9870730-5-2
Descrizione fisica	1 online resource (viii, 342 pages) : digital, PDF file(s)
Disciplina	616.8
Soggetti	Central nervous system - Diseases Magnesium - Physiology Neurophysiology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 02 Oct 2015).
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Magnesium in Normal Brain -- Free magnesium concentration in human brain / Stefano Iotti and Emil Malucelli -- Intracellular magnesium homeostasis / Andrea M.P. Romani -- Magnesium transport across the blood-brain barriers / Mounir N. Ghabriel and Robert Vink -- Intracellular free Mg ²⁺ and MgATP ²⁻ in coordinate control of protein synthesis and cell proliferation / Harry Rubin -- Magnesium and the Yin-Yang interplay in apoptosis / Valentina Trapani, Lucia Mastrototaro and Federica I. Wolf -- Brain magnesium homeostasis as a target for reducing cognitive ageing / Jean-Marie Billard -- Magnesium in Neurological Diseases -- The role of magnesium therapy in learning and memory / Michael R. Hoane -- The role of magnesium in headache and migraine / Lisa A. Yablon and Alexander Mauskop -- Magnesium in edema and blood-brain barrier disruption / Mehmet Kaya and Bulent Ahishali -- Magnesium and hearing loss / Isabelle Sendowski, Xavier Holy, Florent Raffin and Yves Cazals -- The role of magnesium in pain / Hyo-Seok Na, Jung-Hee Ryu and Sang-Hwan Do -- The role of magnesium in traumatic CNS injury / Naomi L. Cook, Frances Corrigan and Corinna van den Heuvel -- The use of magnesium in experimental cerebral ischaemia / Bruno P. Meloni, Kym Campbell and Neville W. Knuckey -- Magnesium in subarachnoid hemorrhage / Walter M. van den Bergh -- Magnesium in

clinical stroke / Jeffrey L. Saver and Sidney Starkman -- Magnesium in cancer: more questions than answers / Marzia Leidi, Federica I. Wolf and Jeanette A.M. Maier -- Magnesium in Parkinson's disease: an update in clinical and basic aspects / Kiyomitsu Oyanagi and Tomoyo Hashimoto -- Involvement of Magnesium in Psychiatric Diseases -- Magnesium and Alzheimer's disease / Dehua Chui, Zheng Chen, Jia Yu, Honglin Zhang, Weishan Want, Yuetao Song, Huan Yang and Yi Liu -- Magnesium and stress / Magdalena D. Cuciureanu and Robert Vink -- Magnesium in neuroses / Victoria Papadopol and Mihai Nechifor -- Magnesium, hyperactivity and autism in children / Marianne Mousain-Bosc, Christian Siatka and Jean-Pierre Bali -- Magnesium in psychoses (schizophrenia, bipolar disorder) / Mihai Nechifor -- Magnesium and major depression / George A. Eby, III, Karen L. Eby and Harald Murck -- Magnesium in drug abuse and addiction / Mihai Nechifor.

Sommario/riassunto

This book, containing chapters written by some of the foremost experts in the field of magnesium research, brings together the latest in experimental and clinical magnesium research as it relates to the central nervous system. It offers a complete and updated view of magnesium's involvement in central nervous system function and in so doing, brings together two main pillars of contemporary neuroscience research, namely providing an explanation for the molecular mechanisms involved in brain function, and emphasizing the connections between the molecular changes and behavior.
