

Alzheimer's disease [cellular and molecular aspects of amyloid [beta] /

Harris, James R. Fahrenholz, F. (Falk) Springer, c2005 Electronic books

Monografía

This book contains a survey of present-day research into the biomedical fundamentals of Alzheimers disease (AD). It contains 20 chapters dealing with widely ranging topics, all of which have a bearing upon the understanding and treatment of AD. Starting with a broad survey of the contribution that the various microscopical techniques (light microscopy, electron microscopy, atomic force microscopy) have made since the seminal light microscopical studies of Alois Alzheimer, the book presents chapters on specialist topics:-transgenic mouse models of AD; the enzymology of amyloid-ß production and degradation; oxidant stress and antioxidant protection; the involvement of metal ions and the influence of chelators; the importance of amyloid-ß oligomers and fibrils, the role of cholesterol in their formation and characteristic binding of the dye Congo red; of the many AD plaque-associated proteins, ApoE4, clusterin and acetylcholinesterase receive individual attention; the effect of amyloid-ß on neuronal membrane calcium channels and membrane fluidity are covered, as are drug interactions, the β-sheet breaking peptides and the statins that may prevent oligomer/fibril formation in AD; the possible significance of amyloid-β phosphorylation receives detailed attention. Overall, the book contains a broad range of current information on cellular, biochemical and structural aspects of amyloid-ß, of direct relevance to Alzheimers disease.

https://rebiunoda.pro.baratznet.cloud: 28443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMjE0ODQ0MTIPatrices/articles/arti

Título: Alzheimer's disease electronic resource] cellular and molecular aspects of amyloid [beta] edited by J. Robin Harris and Falk Fahrenholz

Editorial: New York Springer c2005

Descripción física: 1 online resource (424 p.)

Mención de serie: Sub-cellular biochemistry 0306-0225 v. 38

Nota general: Description based upon print version of record

Bibliografía: Includes bibliographical references and index

Contenido: The Contribution of Microscopy to the Study of Alzheimers Disease, Amyloid Plaques and A? Fibrillogenesis -- Transgenic Mouse Models for APP Processing and Alzheimers Disease: Early and Late Defects --Oxidative stress in Alzheimers Disease: Implications for Prevention and Therapy -- ?-Secretase, APP and A? in Alzheimers Disease -- The Non-Amyloidogenic Pathway: Structure and Function of ?-Secretases -- Amyloid ? Degradation: A Challenging Task for Brain Peptidases -- The Protective Role of Vitamin E in Vascular Amyloid ?-Mediated Damage -- Amyloid Accumulation and Pathogensis of Alzheimers Disease: Significance of Monomeric, Oligomeric and Fibrillar A? -- Cholesterol and Amyloid ? Fibrillogenesis -- Alzheimers ?-Amyloid: Insights into Fibril Formation and Structure from Congo Red Binding -- The Aluminium-Amyloid Cascade Hypothesis and Alzheimers Disease -- Amyloid-? Metal Interaction and Metal Chelation -- The Interaction of Amyloid ? --Membrane Disordering Effects of ?-Amyloid Peptides -- The Role of Alzheimer A? Peptides in Ion Transport Across Cell Membranes -- Amyloid Inhibitors and ?-Sheet Breakers -- Cholesterol and Alzheimers Disease: Statins, Cholesterol Depletion in APP Processing and A? Generation -- Phosphorylated Amyloid-?: the Toxic Intermediate in Alzheimers Disease Neurodegeneration

Lengua: English

ISBN: 1-280-70083-1 9786610700837 0-387-23226-5
Materia: Alzheimer's disease Amyloid beta-protein
Autores: Harris, James R. Fahrenholz, F. (Falk)
Enlace a serie principal: Subcellular Biochemistry (CKB)954927650799 (DLC)73643479
Enlace a formato físico adicional: 0-387-23225-7
Punto acceso adicional serie-Título: Sub-cellular biochemistry v. 38

Baratz Innovación Documental

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