



## Lipids and Cellular Membranes in Amyloid Diseases

By Raz Jelinek

Wiley VCH Verlag Gmbh Apr 2011, 2011. Buch. Condition: Neu. Neuware - Addressing one of the biggest riddles in current molecular cell biology, this ground-breaking monograph builds the case for the crucial involvement of lipids and membranes in the formation of amyloid deposits. Tying together recent knowledge from in vitro and in vivo studies, and built on a sound biophysical and biochemical foundation, this overview brings the reader up to date with current models of the interplay between membranes and amyloid formation. Required reading for any researcher interested in amyloid formation and amyloid toxicity, and possible avenues for the prevention or treatment of neurodegenerative disorders. From the contents: Interactions of Alpha-Synuclein with Lipids Interaction of hIAPP and its Precursors with Membranes Amyloid Polymorphisms: Structural Basis and Significance in Biology and Molecular Medicine The Role of Lipid Rafts in Alzheimer's Disease Alzheimer's Disease as a Membrane-Associated Enzymopathy of Beta-Amyloid Precursor Protein (APP) Secretases Impaired Regulation of Glutamate Receptor Channels and Signaling Molecules by Beta-Amyloid in Alzheimer's Disease Membrane Changes in BSE and Scrapie Experimental Approaches and Technical Challenges for Studying Amyloid-Membrane Interactions and more 280 pp. Englisch.



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