



European Journal of Medicinal Chemistry Vol 121, 2016

Graphical abstracts

**SPECIAL SECTION: THERAPEUTIC APPROACHES OF DISEASES RELATED TO MISFOLDED PROTEINS,
GUEST EDITED BY CORINNE LASMEZAS**

Therapeutic approaches of diseases related to misfolded proteins

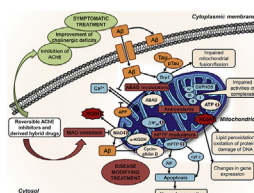
Hervé Galons and Corinne Lasmezas

pp. 773

Progress in drug development for Alzheimer's disease: An overview in relation to mitochondrial energy metabolism

Jana Hroudová, Namrata Singh, Zdeněk Fišar and Kallol K. Ghosh*

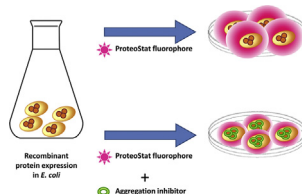
pp. 774–784



A fast and specific method to screen for intracellular amyloid inhibitors using bacterial model systems

Susanna Navarro**, Anita Carija, Diego Muñoz-Torrero and Salvador Ventura*

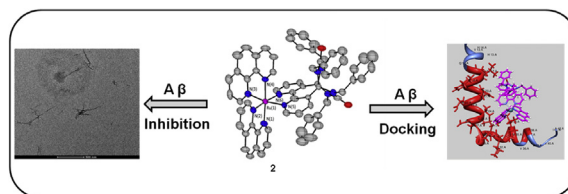
pp. 785–792



Ruthenium(II) polypyridyl complexes with hydrophobic ancillary ligand as A β aggregation inhibitors

Nilima A. Vyas, Shefali N. Ramteke, Avinash S. Kumbhar*, Prasad P. Kulkarni, Vinod Jani, Uddhaves B. Sonawane, Rajendra R. Joshi, Bimba Joshi and Andrea Erxleben

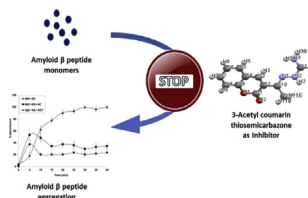
pp. 793–802



Thiosemicarbazone modification of 3-acetyl coumarin inhibits A β peptide aggregation and protect against A β -induced cytotoxicity

pp. 803–809

Dnyanesh S. Ranade, Archika M. Bapat^{**}, Shefali N. Ramteke, Bimba N. Joshi, Pascal Roussel, Alain Tomas, Patrick Deschamps and Prasad P. Kulkarni^{*}

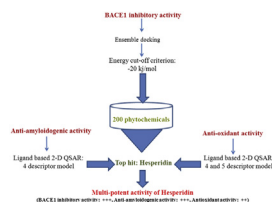


Aggregation of amyloid- β peptide (A β) into amyloid plaques is essential event in Alzheimer's disease (AD) pathogenesis. Inhibition of A β aggregation is a promising avenue to explore as therapeutic treatment for AD. Our results indicate that 3-acetyl coumarin thiosemicarbazone inhibits A β (1–42) peptide aggregation up to 80% compared to the parent 3-acetyl coumarin which inhibits 49%. Further, 3-acetyl coumarin thiosemicarbazone provides neuro-protection against A β -induced cytotoxicity in SH-SY5Y cell line. These findings indicate that thiosemicarbazone modification renders 3-acetyl coumarin significant neuroprotective properties.

Multi-target screening mines hesperidin as a multi-potent inhibitor: Implication in Alzheimer's disease therapeutics

pp. 810–822

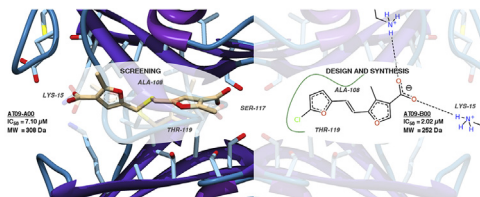
Sandipan Chakraborty^{**}, Jaya Bandyopadhyay, Sourav Chakraborty and Soumalee Basu^{*}



A novel bis-furan scaffold for transthyretin stabilization and amyloid inhibition

pp. 823–840

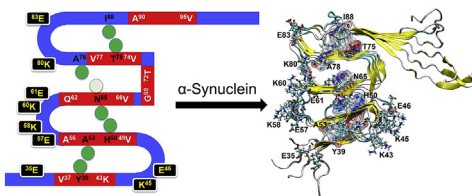
Carlos J.V. Simões^{*}, Zaida L. Almeida, Dora Costa, Catarina S.H. Jesus, Ana L. Cardoso, Maria R. Almeida, Maria J. Saraiva, Teresa M.V. D. Pinho e Melo and Rui M.M. Brito^{**}



Coupling of the non-amyloid-component (NAC) domain and the KTK(E/Q)GV repeats stabilize the α -synuclein fibrils

pp. 841–850

Liang Xu, Ruth Nussinov and Buyong Ma^{*}



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