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Titolo	Glycogen synthase kinase 3 (GSK-3) and its inhibitors [[electronic resource] ] : drug discovery and development // edited by Ana Martinez, Ana Castro, Miguel Medina
Pubbl/distr/stampa	Hoboken, N.J., : Wiley-Interscience, c2006
ISBN	1-280-64906-2 9786610649068 0-470-05217-1 0-470-05215-5
Descrizione fisica	1 online resource (388 p.)
Collana	Wiley series in drug discovery and development
Altri autori (Persone)	MartinezAna <1961-> CastroAna MedinaMiguel <1959->
Disciplina	547.12 572.567 572/.567
Soggetti	Glycogen synthase kinase-3 Glycogen synthase kinase-3 - Inhibitors
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Glycogen synthase kinase 3: an introductory synopsis -- Glycogen synthase kinase-3[beta] (GSK-3[beta]) a key signaling enzyme: a developmental neurobiological perspective -- Role of GSK-3/Shaggy in neuronal cell biology -- The crystal structures of glycogen synthase kinase 3 -- Kinase-kinase and site-site interactions in the phosphorylation of tau by GSK-3 -- GSK-3, a key player in Alzheimer's disease -- Glycogen synthase kinase 3 : a target for novel mood disorder treatments -- GSK-3 and stem cells -- Glycogen synthase kinase 3 : role in neurodegeneration and neuroprotection -- Protein kinase assays for drug discovery -- Animal models with modified expression of GSK-3 for the study of its physiology and of its implications in human pathologies -- Lithium, the seminal GSK-3 inhibitor -- Inhibition of GSK-3 as therapeutic strategy in disease : efficacy of AR-A014418 -- TDZD's: selective and ATP noncompetitive

glycogen synthase kinase 3 inhibitors -- 3-amino pyrazoles as potent and selective glycogen kinase synthase (GSK-3) inhibitors -- Marine compounds as a new source for glycogen synthase kinase 3 inhibitors.

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**Sommario/riassunto**

Many researchers believe that GSK-3 and its inhibitors could lead to effective treatments for neurogenerative disorders, type II diabetes, depression and bipolar disorder, and some forms of cancer. This book provides a thorough introduction to GSK-3, presents up-to-date information, and mentions the birth of several chemical families of GSK-3 inhibitors with varying selectivity. It's a great reference for researchers in drug design and development.

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