



Neuroinflammation in neuronal death and repair [

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Monografía

Neuroinflammation has been implicated recently in the pathogenesis of many neurodegenerative diseases. The cross-talk between neurons and non-neuronal cells seems to be a critical step in the progression of neurodegeneration and molecules that have a beneficial role may turn into harmful players. Thus, matrix metalloproteinases (MMPs), which are involved in axonal growth and regeneration as well as synaptic plasticity, may also have detrimental effects. Recent evidence has linked MMPs to conditions like ischemia, multiple sclerosis, Alzheimer's disease and suggested that, together with their r

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Contenido: Front Cover; The Neuroinflammation in Neuronal Death and Repair; Copyright Page; Contents; Contributors; Preface; Foreword; Chapter 1: Inflammatory Mediators Leading to Protein Misfolding and Uncompetitive/Fast Off-Rate Drug Therapy for Neurodegenerative Disorders; I. Introduction; II. Protein Misfolding in Neurodegenerative Diseases; III. Generation of RNS/ROS; IV. Protein S-Nitrosylation and Neuronal Cell Death; V. Parkin and the UPS; VI. S-Nitrosylation and Parkin; VII. The Unfolded Protein Response and PDI VIII. S-Nitrosylation of PDI Mediates Protein Misfolding and Neurotoxicity in Cell Models of PD or ADIX. PDI Activity in ALS and Prion Disease; X. Potential Treatment of Excessive NMDA-Induced Ca²⁺ Influx and S-Nitrosylation; XI. Looking to the Future: NitroMemantines; XII. Conclusions; Acknowledgments; References; Chapter 2: Innate Immunity and Protective Neuroinflammation: New Emphasis on the Role of Neuroimmune Regulatory Proteins; I. Characteristics of the Cellular and Molecular Innate Immune Responses in the Brain; II.

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