Special Issue

Beyond the Primary Infarction: Focus on Mechanisms Related to Secondary Neurodegeneration after Stroke

Message from the Guest Editor

There is now emerging evidence that stoke can cause progressive loss of remote brain regions that are connected to the primary infarction site, a process termed as secondary neurodegeneration. Secondary neurodegeneration has been consistently observed in the thalamus, substantia nigra and recently in the hippocampus. Further, secondary neurodegeneration has been linked to several post-stroke functional disturbances, such as cognitive impairment, depression and fatigue. We are seeking preclinical and clinical studies that expand our understanding on the mechanisms related to secondary neurodegeneration after stroke as well as the development of novel strategies that can ameliorate secondary neurodegeneration, leading to functional recovery.

Keywords
- stroke
- secondary neurodegeneration
- molecular mechanisms
- Wallerian degeneration
- blood-brain-barrier breakdown
- amyloid-

Guest Editor

Dr. L. K. Ong

1. School of Pharmacy, Monash University Malaysia, Bandar Sunway, Subang Jaya 47500, Selangor, Malaysia
2. School of Biomedical Sciences and Pharmacy and the Priority Research Centre for Stroke and Brain Injury, The University of Newcastle, University Dr, Callaghan, NSW 2308, Australia

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

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Editor-in-Chief

Prof. Dr. Maurizio Battino
Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

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