

## Special Issue

# Advances and Challenges in Stroke Therapy: A Regenerative Prospective

### Message from the Guest Editors

The multifactorial stroke etiology is creating the need for permanent development of novel and more specific therapies and treatments for pediatric and adult stroke patients. Decades of extensive research in the field of stroke accumulated a significant amount of evidence about inflammation influence in neuronal loss in stroke patients. On the contrary, the association between inflammation and repair processes in ischemic stroke is documented as well. Another important aspect in the recovery of patients after the stroke is genetic determinants that may have a role in complex stroke processes and genetic-dependent immunomodulation in stroke treatment. In this Special Issue, we would like to highlight the connection between genetic factors, inflammation, and challenges in the development of next-generation therapeutics in stroke and how genetic prediction may advance the application of thrombolytic, antithrombotic, and neuroprotective interventions. Additionally, we would like to focus on therapies for balancing immune reaction and shifting activity from pro-inflammatory to anti-inflammatory, and from neurotoxic to neuroprotective.

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### Guest Editors

Dr. Dejan Nikolić

Faculty of Medicine, University of Belgrade, 11000 Belgrade, Serbia

Dr. Milena Janković

Neurology Clinic, University Clinical Center of Serbia, 11000 Belgrade, Serbia

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[medicina@mdpi.com](mailto:medicina@mdpi.com)

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Medical Academy, Lithuanian University of Health Sciences, Kaunas,  
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