

Special Issue

Novel Advances in Stem Cell Therapy for Neurological Diseases

Message from the Guest Editors

The use of stem cells has opened a new perspective for the cure of neurological diseases. The aim of stem cell therapy in the context of neurological disorders is to restore tissue function via reconstructing the lost neuronal circuits. However, to date, their therapeutic contribution is quite exclusively related to their “bystander effect” on remaining healthy tissue, rather than repairing the damaged network because of their limited cell survival, inadequate neuronal differentiation, and poor integration in the host neuronal network. So, there is an urgent need to develop multidisciplinary strategies, merging stem cell biology, bioengineering, and neuroscience to achieve neurological function restoration. This Special Issue of *Bioengineering* on Novel advances in stem cell therapy for Neurological Diseases addresses the central role in defining the novel approaches developed to improve the efficacy of stem cell-based therapies for neurological disorders by bringing together contributions from worldwide experts on stem cell biology, engineering, biomaterials and stem cell therapy applied to neurological diseases.

Guest Editors

Dr. Cecilia Laterza

Department of Industrial Engineering, University of Padova, 35137 Padova, Italy

Dr. Daniel Törner

Department of Biomedical Sciences, University of Barcelona, 08036 Barcelona, Spain

Deadline for manuscript submissions

closed (30 April 2024)



Bioengineering

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.3
Indexed in PubMed



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

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Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie

Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

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