



cells



an Open Access Journal by MDPI

Hedgehog Signaling in Myelin Diseases and Inflammatory Disorders of the Nervous System

Guest Editor:

Dr. Elisabeth Traiffort

Diseases and Hormones of the Nervous System U1195 INSERM, Paris Saclay University, 80 Rue du Général Leclerc, 94276 Le Kremlin-Bicêtre, France

Deadline for manuscript submissions:

closed (31 May 2022)

Message from the Guest Editor

In recent decades, Hedgehog signaling has been found to be endowed with a multitude of roles. The involvement of Hedgehog signaling in the generation of oligodendrocytes, its requirement for proper development of peripheral nerve sheaths, as well as its implication in the maintenance of the blood–brain and blood–nerve barriers have raised the possibility that targeting Hedgehog signaling may open therapeutic perspectives towards demyelinating and inflammatory nervous system disorders.

The present Special Issue should provide an overview of the state-of-the art, namely, regarding the mechanisms underlying involvement of Hedgehog signaling in myelin production, the therapeutic potential of Hedgehog signaling modulators in the process of myelin maintenance or regeneration, the contribution of Hedgehog signals to design cell therapies for myelin diseases, Hedgehog-mediated control of the blood–brain and blood–nerve barriers, and the role of Hedgehog signaling in glial cells participating in neuroinflammation.



mdpi.com/si/47974

Special Issue



cells



an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Alexander E. Kalyuzhny

Neuroscience, UMN Twin Cities,
6-145 Jackson Hall, 321 Church St
SE, Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch

Biotech Research & Innovation
Centre, The University of
Copenhagen, Copenhagen,
Denmark

Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [CAPlus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Cell Biology*) / CiteScore - Q1 (General Biochemistry, Genetics and Molecular Biology)

Contact Us

Cells Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/cells
cells@mdpi.com
[X@Cells_MDPI](#)