



cells



an Open Access Journal by MDPI

Rho GTPases in Health and Disease

Collection Editor:

Prof. Dr. Cord Brakebusch

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

Message from the Collection Editor

Dear Colleagues,

Rho GTPases are crucial organizers of the actin cytoskeleton with essential functions in cell migration and cell–cell contacts. In addition, Rho GTPases are involved in the regulation of stemness, proliferation and differentiation, and other cellular processes. Genetically modified mice provided, in the last few years, important and often surprising insights into the *in vivo* function of Rho GTPases, and cellular studies *in vitro* suggested novel molecular mechanisms underlying the observed effects. Still, many questions remain to be investigated in order to understand Rho GTPase function in development and disease. For example, what is the role of Rho GTPase crosstalk *in vivo*? What is the importance of posttranslational modifications of Rho GTPases? How crucial is the parallel activation of different effector pathways by an activated Rho GTPase? How is Rho GTPase function in 3D systems related to 2D models, the currently preferred system for the molecular analysis of Rho GTPase signalling?

Keywords

- Rho GTPases
- Actin cytoskeleton
- *In vivo* disease models
- Rho GTPase regulation
- 3D *in vitro* models
- Development



mdpi.com/si/17689

Topical Collection



cells

Indexed in:
PubMed

CITESCORE
9.0

IMPACT
FACTOR
6.0

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

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](#), [CAPus](#) / [SciFinder](#), and [other databases](#).

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

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.

Contact Us

Cells Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/cells
cells@mdpi.com
[X@Cells_MDPI](https://twitter.com/Cells_MDPI)