



*cells*



an Open Access Journal by MDPI

## Fibronectin in Health and Diseases

Guest Editors:

**Prof. Dr. Matthew A. Nugent**

Jess & Mildred Fisher College of  
Science and Mathematics,  
Towson University, 8000 York  
Road, Towson, MD 21252, USA

**Dr. Michael L. Smith**

Department of Biomedical  
Engineering, Boston University,  
Boston, MA 02215, USA

**Dr. Maria Mitsi**

Laboratory of Food and Soft  
Materials, ETH Zurich, 8092  
Zurich, Switzerland

Deadline for manuscript  
submissions:

**closed (30 November 2019)**

### Message from the Guest Editors

Dear Colleagues,

Fibronectin is a large multimodular protein, which is incorporated in a fibrillar form in the extracellular matrix of almost every cell type. Fibronectin has been implicated in many diseases where such physiological processes are dysregulated.

The aim of this Special Issue is to summarize our current knowledge of the role of fibronectin in health and disease and highlight the underlying mechanisms at the cellular and molecular level. Emphasis will be given on the biochemical and mechanical forces that regulate fibronectin conformation, affect its binding partners, and lead to the activation of biochemical pathways that control cell behavior. Furthermore, an overview of the use of fibronectin in various therapeutic approaches will be given, especially the design of fibronectin-based scaffolds for tissue engineering applications. We hope that such a Special Issue will provide valuable information to the scientific community, help to identify open questions, and drive the field forward.

Prof. Matthew A Nugent

Dr. Michael L. Smith

Dr. Maria Mitsi

*Guest Editors*



[mdpi.com/si/28614](https://mdpi.com/si/28614)

# 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](http://www.mdpi.com)

[mdpi.com/journal/cells](http://mdpi.com/journal/cells)  
[cells@mdpi.com](mailto:cells@mdpi.com)  
[X@Cells\\_MDPI](#)