# **Special Issue**

# Molecular Mechanisms of Signal Transduction in the Islet Cells

## Message from the Guest Editor

The molecular mechanisms that regulate the secretion of hormones from the islets of Langerhans are being studied by many investigators. New discoveries are advancing our understanding of the molecular events involved and forcing us to change our previous views. Many nutrients, neurotransmitters and hormones regulate secretions from the islets. Numerous receptors, signaling cascades, ion channels, genes and transcription factors participate in these processes. Many advanced methods, including advanced imaging techniques, RNA sequencing, and single cell transcriptomics, are being used to elucidate the complexities of the signaling mechanisms involved. We encourage investigators to submit original studies and review papers that deal with the signaling mechanisms regulating secretion from islet cells, their development and survival, in healthy and in pathological conditions.

#### Guest Editor

Dr. Md Shahidul Islam

- Karolinska Institutet, Department of Clinical Sciences and Education, Södersjukhuset, Research Center, 5th Floor, SE-118 83 Stockholm, Sweden
- 2. Department of Internal Medicine, Uppsala University Hospital, SE-751 85 Uppsala, Sweden

### Deadline for manuscript submissions

closed (15 March 2025)



# Cells

an Open Access Journal by MDPI

Impact Factor 5.2 CiteScore 10.5 Indexed in PubMed



mdpi.com/si/199240

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

mdpi.com/journal/ cells





# Cells

an Open Access Journal by MDPI

Impact Factor 5.2 CiteScore 10.5 Indexed in PubMed



## **About the Journal**

## 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.

### **Editors-in-Chief**

Dr. Alexander E. Kalyuzhny

Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE, Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch

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

### **Author Benefits**

### **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)

## **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).

