# **Special Issue**

# Human Placenta and Trophoblast Cells in Pregnancy Development

## Message from the Guest Editor

Maternal–fetal interactions mediated by the placenta are critical to fetal development and overall positive outcomes during pregnancy. During gestation, the placenta mediates the interface between mother and fetus, regulating processes such as gas exchange, nutrition availability, and waste removal. The first differentiation event during placental development is the formation of trophoblast—specialized epithelial cells that form a physical connection between the embryo and the uterus. Aberrant trophoblast functioning is associated with placental deficiencies and clinical obstetric pathologies. This Special Issue will examine the direct correlation between placenta and their trophoblast cells functioning in the development of normal and complicated pregnancies.

### **Guest Editor**

Dr. Juan Arrovo

Department of Cell Biology and Physiology, Brigham Young University, Provo, UT, USA

### Deadline for manuscript submissions

closed (31 July 2024)



## Cells

an Open Access Journal by MDPI

Impact Factor 5.2 CiteScore 10.5 Indexed in PubMed



mdpi.com/si/173363

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).

