



*cells*



an Open Access Journal by MDPI

## Structure and Function of Podoplanin (PDPN) in Disease

Guest Editor:

**Prof. Yukinari Kato**

Department of Antibody Drug  
Development, Tohoku University  
Graduate School of Medicine, 2-1  
Seiryō-machi, Aoba-ku, Sendai,  
Miyagi 980-8575, Japan

Deadline for manuscript  
submissions:

**closed (30 September 2020)**

### Message from the Guest Editor

Podoplanin (PDPN), also known as T1alpha or Aggrus, is a type I transmembrane sialoglycoprotein that is expressed not only in normal tissues, such as pulmonary type I alveolar cells, renal podocytes, and lymphatic endothelial cells, but also in cancer tissues, including brain tumor, malignant mesothelioma, oral cancer, and lung cancer. PDPN is associated with tumor cell-induced platelet aggregation and hematogenous metastasis through interactions with the C-type lectin-like receptor 2 (CLEC-2). Recent clinical studies have shown the association between increased PDPN expression and poor disease prognosis, indicating that the establishment of anti-PDPN mAbs is critical for developing novel therapeutic strategies against cancer development and metastatic progression. This Special Issue of *Cells* should improve our understanding of PDPN by including researchers working not only with structure and function of PDPN but also diagnosis and therapy targeting PDPN, including antibody-drug conjugate (ADC), chimeric antigen receptor-T (CAR-T) therapy, radioimmunotherapy (RIT), photoimmunotherapy (PIT), and liquid biopsy.



[mdpi.com/si/33266](https://mdpi.com/si/33266)

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

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

## Contact Us

*Cells* Editorial Office  
MDPI, St. Alban-Anlage 66  
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](#)