Special Issue

Structure and Function of Podoplanin (PDPN) in Disease

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.

Guest Editor

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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.

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