Special Issue

The Role of Scavenger Receptors in Health and Disease

Message from the Guest Editors

Scavenger receptors (SRs) are a heterogeneous group of membrane-bound receptors that recognize and internalize a wide range of ligands, including modified lipoproteins, pathogens, and cellular debris. There are many types of scavenger receptors with diverse biological activities—such as SR-A (SR-A1, MARCO), LOX-1 (SR-E1), SR-B1 (SCARB1), and CXCL16 (SR-PSOX). Among them, CD36 (SR-B2) has been extensively studied for its multifaceted functions. In homeostatic conditions, CD36 is expressed by a wide variety of cell types, where it supports various functions. It was introduced as a cell adhesion molecule on platelets and erythrocytes with a high affinity for collagens and thrombospondin-1, but later on, it was found to support many other roles, from the recognition, uptake, and processing of fatty acids, and even the recognition and clearance of fungi and bacteria, just to name a few. As a result, it has acquired many names along the way, from glycoprotein IV (GPIV) to fatty acid translocase (FAT), scavenger receptor class B (SR-B2), or glycoprotein 88 (GP88). This Special Issue is an open invitation to encourage going beyond the edges of this already-expanding universe.

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