

Special Issue

Molecular Pathobiology and Drug Targeting Cardiovascular and Kidney Injury in Obesity and Diabetes

Message from the Guest Editor

The global health burden of cardiovascular risk and kidney injury in the context of obesity/diabetes is on the rise, thereby increasing the health burden globally. However, the molecular mechanisms and mediators for cardiovascular and kidney injury remain poorly understood. Potential mechanisms include low-grade immune and inflammatory responses, inflammasome activation, oxidative stress through AGE/RAGE signaling, inappropriate activation of the renin-angiotensin-aldosterone system (RAAS), cytokine imbalances, and adipose tissue remodeling, particularly perirenal adipose tissue dysfunction. Additional contributors are endothelial-adipose tissue interactions, hypoglycemia-mediated vascular injury, renal hemodynamic changes, mitochondrial dysfunction, hypoxic microvascular injury (including vasa vasorum damage), and perivascular adipose tissue (PVAT) remodeling. Targeting these processes, either lifestyle interventions and/or precision theranostics, is critical for mitigating obesity- and diabetes-associated cardiovascular and renal injury.

Guest Editor

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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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