

Special Issue

Molecular Mechanisms of Renal Injury

Message from the Guest Editors

Kidney injury is a leading global cause of acute and chronic kidney disease, driving high morbidity and mortality. However, the molecular mechanisms underlying injury, repair failure, and disease progression remain poorly understood. Elucidating these pathways is vital for biomarker discovery and therapy development. Recent research implicates inflammation, oxidative stress, mitochondrial dysfunction, metabolic reprogramming, fibrosis, and immune activation in renal damage. Intercellular signaling also modulates injury susceptibility and recovery. This Special Issue, "Molecular Mechanisms of Renal Injury," invites original research, reviews, and perspectives on cellular and molecular processes in kidney damage. Topics include tubular injury, glomerular disease, fibrosis, cell death, regeneration, and novel interventions. Studies using experimental models, human samples, or translational approaches are encouraged. By integrating basic and clinical research, this issue aims to uncover new mechanisms and therapeutic targets for precision treatment of kidney disease.

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