

Special Issue

Molecular Insights into Kidney Injury and Repair

Message from the Guest Editor

Renal disease is defined as a heterogeneous group of disorders affecting kidney structure and function. Acute kidney injury (AKI) is a common clinical syndrome characterized by a sudden decline in loss of kidney function. The presence of other pathological conditions, such as diabetes and hypertension, contributes to the transition into chronic kidney disease (CKD). Current knowledge about the kidney repair mechanisms reports the existence of a population of resident stem cells in the kidney, known as ARPCs (Adult Renal Progenitor Cells), which can reestablish a functional tubular epithelium. Renal regeneration can occur by direct proliferation and differentiation of stem progenitors, or by the paracrine pathway, through the release of extracellular vesicles containing miRNAs and regenerative factors. New insights on the molecular mechanism of action underlying kidney injury and repair would provide early biomarkers to predict clinical outcomes and targeted therapies to prevent injury and delay the progression to chronic kidney disease.

Guest Editor

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