

Special Issue

Immunity and Inflammatory Processes in Renal Diseases

Message from the Guest Editor

Renal diseases encompass a wide spectrum of conditions, from primary and secondary glomerulonephritis and acute and chronic kidney disease to renal replacement therapies. The underlying pathogenetic mechanisms, including dysregulation of both innate and adaptative immune systems, hypoxia, oxidative stress, inflammatory processes, metabolic alterations, and changes in cellular and molecular pathways, are multifaceted and strictly inter-related. Historically, immunity and inflammatory processes have been recognized to play a relevant role in the pathogenesis of renal diseases and contribute significantly to the development of complications and disease progression. However, increasing evidence from experimental and clinical studies highlights that these processes are more complex than previously thought and may be implicated in emerging renal-disease-related complications, such as early senescence and vascular calcification. The characterization of new pathogenetic mechanisms and advances in our understanding of the pathophysiology of renal diseases might provide new therapeutic targets to improve the management of these high-clinical-impact conditions.

Guest Editor

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