

Special Issue

Chronic Kidney Disease and Its Complications: Mechanisms and Treatments

Message from the Guest Editor

Chronic kidney disease (CKD) affects approximately 10–14% of the global population. Kidney fibrosis, characterized by excessive extracellular matrix (ECM) deposition leading to tissue scarring, is a hallmark and common manifestation in all types of progressive CKD; however, there are currently no antifibrotic therapies used to treat CKD. Kidney fibrosis can be identified based on morphological features such as tubule atrophy, interstitial chronic inflammation and fibrogenesis, glomerulosclerosis, and vascular rarefaction. Although it takes a long time to develop effective drugs based on newly discovered mechanisms, the increasing number of treatments on the market, including RAS blockage, SGLT2 inhibitors, vasopressin receptor 2 antagonist, and non-steroidal anti-mineralocorticoid, can delay the progression of CKD. Furthermore, a better understanding of kidney fibrosis will also aid the discovery of promising blood and urinary biomarkers related to tubulointerstitial injury.

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Guest Editor

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Deadline for manuscript submissions

closed (31 October 2023)



Journal of Clinical Medicine

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by MDPI

Impact Factor 2.9
CiteScore 5.2
Indexed in PubMed



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