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Podocyte Pathophysiology

Guest Editor:

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Deadline for manuscript submissions:

closed (30 April 2024)

Message from the Guest Editor

While podocytes, highly specialized cells with a central role in filtration barrier maintenance, constitute a small cell population within the kidney, their significance in both normal glomerular physiology and the manifestation of proteinuric glomerulopathies cannot be underestimated. Decades of research have unveiled numerous aspects of podocyte biology in health and disease, positioning them at the forefront of preventive and therapeutic strategies for chronic progressive kidney diseases.

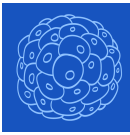
However, the complexity of podocyte biology, coupled with the development of innovative technical and methodological approaches, has brought new facets to light in characterizing the mechanisms governing podocyte development, metabolism, injury, and repair. Recent studies, such as the generation of kidney organoids from induced pluripotent stem cells and the exploration of podocyte mitochondria in glomerular cell crosstalk, have particularly piqued the field's interest.

In this Special Issue, we eagerly invite basic research and review articles focused on the investigation of the various aspects of podocyte pathology leading to glomerular diseases.



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Special Issue



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