



Innate Immunity Nephropathy: Etiology, Diagnosis, and Treatment

Guest Editors:

Dr. Xujie Zhou

Peking University First Hospital,
Peking University, Beijing, China

Dr. Celine Berthier

Division of Nephrology,
Department of Internal Medicine,
Michigan Medicine, Ann Arbor,
MI, USA

Dr. Youhua Xu

Faculty of Chinese Medicine and
State Key Laboratory of Quality
Research in Chinese Medicine,
Macau University of Science and
Technology, Avenida Wailong,
Taipa, Macao, China

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Message from the Guest Editors

Dear Colleagues,

Innate immunity is involved in tissue homeostasis, pathological inflammation, fibrosis, acute kidney injury, and chronic kidney disease progression. Innate immune cells, including dendritic cells, macrophages, innate lymphoid cells (ILCs), and natural killer cells, contribute to pathogenesis and protection in various kidney diseases. Circulating and kidney resident cells such as podocytes and tubular epithelial cells are all equipped with pattern recognition receptors (PRRs), which can be activated and contribute to inflammatory response in the local kidney. These findings are corroborated by high-throughput multi-omics studies, highlighting the heterogeneity of immune and non-immune cells implicated in immune related kidney disease. Importantly, these research have led to the discovery of novel pathogenic pathways, and some targeted treatments have shown promising efficacy.





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Internal Medicine Department,
University Hospital Strasbourg,
67000 Strasbourg, France

Prof. Dr. Kent Doi

Department of Acute Care
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Journal of Clinical Medicine Editorial
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MDPI, Grosspeteranlage 5
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