

## Special Issue

# Kidney Disease: The Role of Cellular Mechanisms in Renal Pathology

### Message from the Guest Editor

The growing incidence of kidney diseases poses significant challenges to global health. Cellular mechanisms play a crucial role in the development and progression of these conditions. Understanding the cellular dynamics within the kidney is vital for improving diagnosis and therapeutic strategies. This Special Issue will explore the molecular and cellular mechanisms that underlie renal pathology, with a particular focus on kidney fibrosis, cell death, repair processes, and regeneration.

Key topics will include the identification of key renal cell populations involved in injury and repair, the role of stem and progenitor cells in kidney regeneration, and the impact of metabolic and environmental factors on renal health. In addition, we will highlight advancements in cell-based models for studying kidney disease, innovative therapeutic approaches targeting cellular pathways, and in vivo models used to assess novel treatments for kidney injury and fibrosis. This Special Issue aims at providing a comprehensive overview of the cellular mechanisms driving kidney diseases, offering new insights into potential therapeutic interventions and clinical applications.

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### Guest Editor

Dr. Jinu Kim

1. Department of Anatomy, Jeju National University College of Medicine, Jeju 63243, Republic of Korea
2. Interdisciplinary Graduate Program in Advanced Convergence Technology & Science, Jeju National University, Jeju 63243, Republic of Korea

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### Deadline for manuscript submissions

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## Cells

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*Cells*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
cells@mdpi.com

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## About the Journal

### Message from the Editorial Board

*Cells* has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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Neuroscience, UMN Twin Cities, 6-145 Jackson Hall, 321 Church St SE,  
Minneapolis, MN 55455, USA

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Copenhagen, Denmark

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.5 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).