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Developmental Origins of Kidney Disease and Targeted Therapeutics

Guest Editors:

Dr. Rebecca A. Wingert
Department of Biological Sciences, 218 Galvin Life Sciences Center, University of Notre Dame, Notre Dame, IN 46556, USA

Dr. Brooke Chambers
Department of Biological Sciences, University of Notre Dame, Notre Dame, IN 46556, USA

Deadline for manuscript submissions:
closed (15 May 2023)

Message from the Guest Editors

Dear Colleagues,

During vertebrate embryogenesis, kidneys contain progenitor populations which fuel the formation of nephrons and the collecting duct network. Alterations in these events can lead to various renal malformations. The formation of mature nephrons is particularly critical, as these structures are the core functional units of the kidney that cleanse the blood and maintain fluid homeostasis. The absence or perturbation of nephrogenesis can cause congenital birth defects. Postnatally, nephron damage can initiate devastating acute and/or chronic conditions. Nephron composition is complex where over a dozen differentiated cell types are organized in distinct regions, each performing specialized physiological roles. Single-cell sequencing technologies have aided in characterizing and tracking these nephron cell types during kidney ontogeny and disease progression. This Special Issue will provide an open access opportunity to publish research and review articles related to the in vivo and in vitro development of nephrons.

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Editors-in-Chief

Dr. Alexander E. Kalyuzhny
Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE, Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch
Biotech Research & Innovation Centre, The University of Copenhagen, Copenhagen, Denmark

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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Contact Us

Cells Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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cells@mdpi.com
𝕏@Cells_MDPI