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Molecular Mechanisms of Kidney Disease: From Neonates to Adolescents

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Deadline for manuscript submissions:
closed (30 May 2023)

Message from the Guest Editors

Dear Colleagues,

The ongoing progress on understanding the background of kidney pathology is based on insight into its molecular mechanisms. The variability of immune reactions has shaped primary and secondary glomerulopathies, vasculitides, and acute rejection, whereas the genetic background and molecular architecture of the glomerular filtration barrier have reshaped idiopathic nephrotic syndrome. Inflammatory processes and fibrosis have added to chronic kidney disease and hypertension. Complement system anomalies have redefined the background of hemolytic uremic syndrome. Even urinary tract infections have revealed a new side through microbiotic impact.

These advances have always been analyzed in the context of age-related changes, from neonatal kidney immaturity into adolescent transition, making pediatric nephrology a fascinating compilation of microscale discoveries extended along the time dimension.

Therefore, this Special Issue is an invitation to share molecular experience and navigate the new perspectives that nephrology offers to its enthusiasts.

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Message from the Editor-in-Chief

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