

Special Issue

Insights into the Molecular Regulation of Ion Transporters in Chronic Kidney Disease

Message from the Guest Editor

The critical balance of fluid and electrolytes is strictly controlled by the kidney via numerous ion transporters expressed and localized in specific regions of the nephron. Genetic mutations or environmental factors can cause severe electrolyte imbalances in these ion transporters, leading to several clinical syndromes. Chronic renal disease may also alter the expression and function of membrane carriers and transporters in the kidney. Understanding the molecular and consequential effects of ion transporters' aberrant trafficking and expression in health and disease is therefore essential for developing new treatment strategies for the prevention and treatment of chronic kidney disease (CKD). With this aim in mind, this Special Issue, "Insights into the Molecular Regulation of Ion Transporters in Chronic Kidney Disease", will present original articles and reviews highlighting the state of the art of our current knowledge of the role of ion transport in CKD, the most recently proposed therapeutic strategies, and the insight gained from studies investigating these topics in both cell and animal models and patients.

Guest Editor

Dr. Kamel Laghmani

Centre de Recherche des Cordeliers, INSERM, Sorbonne Université, USPC, Université Paris Descartes, Université Paris Diderot, CNRS, ERL8228, France, Paris

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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Prof. Dr. José L. Quiles
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Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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