Special Issue

Stem Cell or Exosome-Based Therapy for Kidney and Urinary Tract Diseases: Mechanisms, Applications, and Future Perspectives

Message from the Guest Editor

This Special Issue explores the transformative potential of stem cell and exosome-based therapies for kidney diseases. We delve into the underlying mechanisms of action, including their ability to dampen inflammation, combat oxidative stress, counteract fibrosis, and promote stem cell differentiation and kidney regeneration. However, a central focus is placed on translating promising preclinical findings into successful clinical applications. We will dissect the specific challenges encountered during this transition and propose potential solutions to expedite progress.

While established mechanisms such as antiinflammation and antifibrosis remain crucial, this issue will showcase emerging pathways that hold significant promise. We will explore the exciting field of autophagy modulation and its potential role in kidney disease therapy, alongside delving into novel mechanisms such as immune cell interaction and their therapeutic implications.

This Special Issue offers a glimpse into the exciting future of stem cell and exosome-based therapies for kidney disease.

Guest Editor

Dr. Yuanyuan Zhang

Wake Forest Institute for Regenerative Medicine, Wake Forest University Health Sciences, Winston-Salem, NC 27101, USA

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Message from the Editor-in-Chief

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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

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