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The Promise and Challenge of Induced Pluripotent Stem Cells (iPSCs)

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

The development of iPSC technology has ushered in a revolutionary new era for studying diseases and developing therapies. One quickly evolving field of iPSC technology is the development of human-based in vitro disease models by utilizing patient-iPSCs or those generated by CRISPR/Cas9 gene editing. Another is for regenerative medicine, such as autologous or allogenic cell therapy, although they are still challenged by the high standard requirements for quality control. In summary, iPSC technology, with the assistance of other technologies, holds great promise for tackling human diseases.

In this Special issue, studies in all the fields of iPSC technology are invited, from stem cell generation and differentiation to disease modeling and stem cell therapy; progress or challenges encountered; and in vitro or in vitro. Studies reporting breakthrough discoveries in the scientific understanding of iPSC or technological developments will be particularly encouraged. Both research articles and reviews are welcome.

Dr. Xiufang Guo
Guest Editor

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Message from the Editor-in-Chief

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