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Cellular Reprogramming and Tissue Repair

Guest Editor:

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Message from the Guest Editor

Factor-induced PSCs (iPSCs) have since been generated from human cells of different cell types, and from many other species. Factor reprogramming has generated other functional cells as well, including induced cardiomyoctyes, induced neurons, induced beta cells, and induced blood cells, among others. This new technology opens up a new field of research—cellular reprogramming. In theory, we can now convert any cell type into another cell type of interest through epigenetic reprogramming. The means of reprogramming is no longer limited to overexpression of transcription factors. Almost all approaches have been used in reprogramming, for example, protein reprogramming, mRNA reprogramming, sendai viral reprogramming, episomal reprogramming, CRISPR/activator reprogramming, reprograming with replicating viral RNA, and others. Cell fate conversion can be achieved not only in vitro, but also in living animals by delivering reprogramming factors into the target tissues. Although factor reprogramming dominates the field, the conventional technology of reprogramming by somatic cell nuclear transfer (SCNT) is still a valuable tool in both biotechnology and research.

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Special Issue

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Message from the Editor-in-Chief

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