Special Issue

Cellular Reprogramming and Tissue Repair

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.

Guest Editor

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Deadline for manuscript submissions

closed (22 June 2022)

Methods and Protocols

an Open Access Journal by MDPI

Impact Factor 2.0
CiteScore 3.9
Indexed in PubMed

mdpi.com/si/65683

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Message from the Editor-in-Chief

Methods and Protocols (ISSN 2409-9279) is an open access journal devoted to the publication of new procedural approaches and cutting-edge methodological developments. The ultimate objective of this new forum of scientific communication is to provide researchers with an indispensable tool, enabling better use of the latest scientific technologies. With a broad and totally interdisciplinary focus, *Methods and Protocols* was established with the objective of facilitating cross-fertilization and cross-talk in the scientific arena. Methods and protocols in Life Sciences, Chemistry, Biomedical Sciences, Engineering, and in their intersections such as Biotechnology and Nanotechnology will constitute the core of the journal. However, we anticipate that other fundamental disciplines such as Physics or Geology will be rapidly incorporated.

Editor-in-Chief

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