Special Issue

Novel Pathways of Cell Fate Regulation

Message from the Guest Editor

Understanding the molecular mechanisms underlying cell fate is one of the most intricate challenges of modern cell biology. To study these phenomena, several in vitro and in vivo models were developed. Using them, it was shown that the stemness of the cells is dependent on an expression pattern of a set of transcription factors (TFs). Differentiation might be induced by changes in the TF expression pattern, or by cocktails of certain chemical compounds.

Despite the progress in the study of molecular mechanisms controlling cell fate, many questions remain unanswered and have not even been formulated yet. We encourage authors to present their point of view on the alternative mechanisms of regulation of cell fate, and on unexplored problems concerning cell biology.

Guest Editor

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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