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Cell Culture and Genome Modification Technologies: from Biology to Biomedical Applications

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Message from the Guest Editors

Dear Colleagues,

Regenerative medicine is a rapidly ascending field supported mainly by the development of new biotechnologies, particularly the possibility of genetically modifying the inherited genome and epigenetically modifying the cell fates. Significant advances using cell culture and genome modification technologies have been reported to establish viable conditions and models that will enable the modulation of cell genetic information and phenotypes for practical use in medicine. They may also provide beneficial technologies for agriculture. However, essential barriers related to the translation of protocols and results are still common, mainly concerning the establishment of cell lines, robust editing and differentiation protocols, the use of large-scale culture systems, and pre-clinical or clinical assessments. Therefore, the present Special Issue aims to present consolidated results and perspectives on the culture and manipulation of cells in vitro, aiming for basic and applied purposes.

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Special Issue



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Message from the Editor-in-Chief

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