

Special Issue

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

Message from the Guest Editors

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. *Assistant*

Guest Editors

Dr. Fabiana Fernandes Bressan

Dr. Kelly Roballo

Dr. Naira Caroline Godoy Pieri

Dr. Lais Vicari de Figueiredo Pessôa

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Life
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
life@mdpi.com

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Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona
Institute of Science and Technology, 08028 Barcelona, Spain

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