



Potential Application of Cell Sheets, for Tissue Engineering and Repairing Tissue

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Message from the Guest Editor

Cell and gene therapy technologies have been developing tremendously in the past decade, in order to treat numerous diseases. Initial cells therapies were based on the injection of isolated cells (stem or progenitor stem cells), with more limited success. Indeed, cells, injected in the organism, can migrate in any organ, and they have a lower probability of surviving.

The recent development of cell sheets allows directly targeting the cells on the damaged tissue, and to increasing the survival of the cells. It allows an easy harvesting of the cell sheets, engineered with different types of stem cells. Cell sheets are already being used to treat cornea, oesophagus, skin, liver, heart, blood vessel, bladder and other organs. Combinations of different types of cell sheets increase the potential of medical applications.

This Special Issue will host reviews and articles from any scientist who has been studying the engineering of cell sheets. Topics of interest include but are not limited to all potential medical applications of cell sheets, but also other uses, such as vitrification, transport, their production, etc.





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Message from the Editor-in-Chief

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