

Special Issue

Current Methodology Advances in Cell Therapy Applications

Message from the Guest Editors

Cell Therapy per definition uses cellular material that is injected or transplanted into a patient with the aim of treating a disease. Cell Therapy approaches are naturally diverse. Approaches can use autologous (i.e., patient self-derived) material or allogeneic cells (derived from either genetically matched donors or from engineered stem cells). One prominent and well-studied example of Cell Therapy applications are autologous CAR T therapies, where patient T cells are genetically engineered to express specific tumor-targeting chimeric antigen receptors. CAR T therapies have proven to be an efficient treatment for a variety of hematologic cancers. Alternatively, stem cell-derived allogeneic therapies use genetically engineered human stem cells or human-induced pluripotent stem cells that will later be differentiated into the desired effector cells, ensuring a much wider target range. The particular topics of interest include, but are not limited to:

- cell therapy
- autologous
- allogeneic
- stem cell-based therapies
- T cell engineering
- immuno-oncology
- tissue repair

Guest Editors

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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.

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