

Special Issue

Application of Nano- and Bio-materials in Cell-Based Therapy

Message from the Guest Editors

Cell therapy strategies hold great promise for regenerative medicine and cancer immunotherapy. Their combination with materials science has brought a plethora of scientific advances in recent years. From the development of scaffolding materials for tissue regeneration in bone, cartilage, tendons tissue, and nerve tissue engineering, to the exploitation of cell migration properties to deliver drug-loaded nanoparticles for cancer therapy, the possibilities of this type of combinations appear to be almost endless. We invite scientists to contribute original research articles or review articles that are related to the combination of nano- and biomaterials with cells for therapeutic purposes. Potential topics include, but are not limited to:

- 3D scaffolds seeded with cells for regenerative medicine
- Nanoparticle delivery strategies based on living nanoparticle carriers
- Nanoparticle-mediated non-viral genetic engineering of therapeutic cells
- Cell-carrying biomaterials for immune engineering
- Biological effects of nanomaterials on cells for regenerative medicine applications

Guest Editors

Dr. Ana Isabel Flores

Dr. Juan Luis Paris

Dr. Paz de la Torre

Deadline for manuscript submissions

closed (20 January 2022)



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Pharmaceutics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
pharmaceutics@mdpi.com

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Prof. Dr. Patrick J. Sinko
Department of Pharmaceutics, Ernest Mario School of Pharmacy,
Rutgers University, Piscataway, NJ 08854, USA

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