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Gels in Medicine and Pharmacological Therapies

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Deadline for manuscript submissions:
closed (10 June 2023)

Message from the Guest Editors

Dear Colleagues,

We would like to invite you to participate in the following Special Issue of Gels on "Gels in Medicine and Pharmacological Therapies". Recent advances in biomedical engineering suggest that gels (e.g., hydrogels, polymer gels, etc.) are potential candidates for translational use in clinical treatment, due to the features such as biocompatibility, water absorbance and especially, the structural similarity to the extracellular matrix (ECM) which make this type of material ideal for tissue engineering applications, which provides a porous ECM-mimicking 3D scaffold for cell migration, adhesion, proliferation, and differentiation. Meanwhile, gels are considered ideal delivery tools, which can be harnessed to deliver small-molecular drugs, macromolecular cytokines/growth factors, or nanosized drug-loading vehicles. Utilizing the biodegradability of gels, the loaded pharmacological contents can be released in a controlled manner, therefore facilitating the therapeutic effects. This Special Issue aims to highlight the current and future development of gels and gel-associated biomaterials with translational potential in medicine and pharmacological therapies.

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Message from the Editor-in-Chief

Gels (ISSN 2310-2861) is recently established international, open access journal on physical and chemical gel-based materials. The journal aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. General topics include but not limited to synthesis, characterization and applications of new organogels, hydrogels and ionic gels made either from low molecular weight compounds or polymers, composite and hybrid materials where a metal is by some means incorporated into the gel network, and computational studies of these materials in order to provide a better understanding of gelation mechanism. We cordially invite you to consider publishing with us and contribute with your own grain of sand to the advance in this fascinating field.

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