

Tentative Outline

Special/Thematic Issue for the journal "Current Pharmaceutical Design - CPD"

Tentative Title: Multiphasic gels: Achieving new drug delivery paradigms

Guest Editor: Shubhini A Saraf, Manisha Pandey & Shailendra K Saraf

Scope of the Thematic Issue:

Heterogeneity of tissue, variable phenotypes of cells, and anatomical changes due to disease in living cells are crucial factors for drug delivery system development. Ensuing nature's lead, the multiphasic gels have gained much because of their construction and site-specific drug delivery. These delivery systems can be tailored with electrical, optical, and thermal properties for stimuli-responsive delivery. Moreover, the unique and variable properties of these gels and the incorporation of nanocarriers widen their biomedical applications. We, therefore, want to compose a thematic issue in the Current Pharmaceutical Design entitled "Multiphasic gels: Achieving new drug delivery paradigms." This thematic issue will emphasize the biomedical applications of multiphasic gels as versatile drug delivery systems while expanding the scope and power of topical and systemic drug delivery systems as an effective toolbox for treatment.

Keywords: Stimuli-responsive gels, drug/gene delivery, topical and transdermal delivery, controlled/sustained release gels, nanocomposites

Sub-topics:

The sub-topics to be covered within the issue should be provided:

- Sol-gel transitioning for smart delivery
- Structured gels
- Multiphasic gels

Tentative titles:

- Sojourn of phytosomal gels in mitigating Topical diseases: opportunity and limitations
- Stimuli-Responsive Hydrogels in 3D Printing for Tissue Engineering: Current Status 2018-2022
- Multiphasic gels drug delivery systems for child and adolescent neurology disorders
- Sol-gel based drug delivery systems for ocular delivery: Achievements and Challenges
- Applications of Hydrogels as biomaterial in Dentistry
- Multiphasic Hemicellulose-based Hydrogels for Drug Delivery: A mini-review
- Thiolated polymeric Hydrogels for Biomedical Applications: A Systemic Review
- Multiphasic gel formulations for treating skin disease: recent trends and challenges
- Multiphasic topical dermal gels for diabetic wound healing
- Polymeric gel scaffolds for wound healing and biomimetic environment
- Miniaturized polymeric systems for the intravaginal gene therapies: Recent update on unconventional delivery
- In Situ Gels For Brain Delivery: Breaching The Barriers

Schedule

Complete Thematic issue submission deadline: **31 October 2022**

Details of Guest Editors:

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