Special Issue

Hydrogels for Localized and Controlled Drug Delivery

Message from the Guest Editors

Hydrogels represent a rapidly advancing class of biomaterials with broad applicability in pharmaceutical sciences. Their highly hydrated, tunable threedimensional networks allow for the encapsulation of diverse therapeutic agents, ranging from small molecules to biologics, while enabling spatiotemporally controlled release. This Special Issue will focus on recent progress in hydrogel design and functionalization aimed at improving drug stability, release kinetics, and site-specific delivery. Particular emphasis will be given to smart or stimuli-responsive hydrogels, injectable and in situ forming systems, hybrid and nanocomposite formulations, and advanced crosslinking strategies. Contributions addressing mechanistic insights into drug-matrix interactions, scale-up and manufacturing considerations, and translational studies bridging preclinical models to clinical applications are especially welcome. By consolidating innovative approaches across pharmaceutics, polymer chemistry, and biomedical engineering, this Special Issue will provide a comprehensive overview of hydrogel-based platforms as next-generation drug delivery systems.

Guest Editors

Dr. Roberta Censi

School of Pharmacy, Drug Delivery Division, University of Camerino, CHIP Research, Camerino, Italy

Dr. Cristina Casadidio

School of Pharmacy, Drug Delivery Division, University of Camerino, CHIP Research Center, Via Madonna delle Carceri, 62032 Camerino, MC, Italy

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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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Editor-in-Chief

Prof. Dr. Patrick J. Sinko

Department of Pharmaceutics, Ernest Mario School of Pharmacy, Rutgers University, Piscataway, NJ 08854, USA

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