

## Special Issue

# Advances in Biomaterials and Drug Technology

### Message from the Guest Editors

This Special Issue is dedicated to advances in biomaterials and drug technology, taking into account the aspects of design, manufacturing, and functioning, with a wide range of physical, biological, and chemical characteristics. This Issue also focuses on the current state of research on the characterization of materials and excipients for biomaterials and parenteral drug delivery systems. The topics of interest include the following areas:

- Application of novel materials and excipients in biomedical engineering and drug technology;
- Advances in biomaterials and drug delivery systems based on both synthetic polymers and biopolymers at different scales, e.g., nanoparticles, macroparticles, micelles, exosomes, liposomes, and implants;
- The role of biodegradable and nonbiodegradable biomaterials and drug formulations in improving therapeutic efficiency;
- The mechanisms of biodegradation, drug release patterns, and kinetics tested *in vivo* or *in vitro*;
- The effect of manufacturing and formulating methods on features of biomaterials and active pharmaceutical ingredients;
- Characterization of natural drug delivery systems, e.g., exosomes or albumins.

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### Guest Editors

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### Deadline for manuscript submissions

closed (31 August 2025)



## Applied Sciences

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## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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