

## Special Issue

# Stimuli-Responsive Polymeric Nanoparticles for the Treatment of Metabolic and Neurodegenerative Diseases

### Message from the Guest Editor

Recent advances in nanomedicine have demonstrated the immense potential of nanoparticles in managing metabolic disorders and neurodegenerative diseases. Nanoparticles address challenges such as unspecific site targeting and uncontrolled drug release while offering innovative solutions for delivering therapeutics to the central nervous system by overcoming the blood–brain barrier. Among these approaches, stimuli-responsive polymeric nanoparticles stand out for their significant potential and versatility. These nanoparticles are engineered to control drug release by responding to naturally occurring or externally applied stimuli, enabling precise drug release in specific organs or regions, thereby enhancing therapeutic effectiveness. Consequently, there is a growing need to develop nanoparticles with the ability to target specific organs, cross the blood–brain barrier, deliver therapeutic agents, diagnose or monitor disease progression, and modulate metabolic disorders and neurodegenerative diseases. In this Special Issue, we invite authors to submit original research and review articles exploring the latest advances in stimuli-responsive polymeric nanoparticles.

### Guest Editor

Dr. Jialiu Zeng

Department of Biomedical and Chemical Engineering, Syracuse University, Syracuse, NY 13244, USA

### Deadline for manuscript submissions

closed (25 March 2025)



## Pharmaceuticals

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Impact Factor 4.8  
CiteScore 7.7  
Indexed in PubMed



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*Pharmaceuticals*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[pharmaceuticals@mdpi.com](mailto:pharmaceuticals@mdpi.com)

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### Message from the Editor-in-Chief

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Prof. Dr. Amélia Pilar Rauter

Departamento de Química e Bioquímica (DQB) e Centro de Química Estrutural (CQE), Institute of Molecular Sciences, Faculdade de Ciências, Universidade de Lisboa, Lisboa, Portugal

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