



## Micro/Nano Droplets/Bubbles for Therapy, Diagnosis and Theranostics

Guest Editors:

**Dr. Patrizia Nadia Hanieh**

Department of Drug Chemistry  
and Technologies, Sapienza  
University of Rome, Piazzale A.  
Moro 5, 00185 Rome, Italy

**Prof. Dr. Carlotta Marianecchi**

Department of Drug Chemistry  
and Technology, Sapienza  
University of Rome, 00185 Rome,  
Italy

**Prof. Dr. Maria Carafa**

Department of Drug Chemistry  
and Technology, Sapienza  
University of Rome, 00185 Rome,  
Italy

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submissions:

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### Message from the Guest Editors

Dear Colleagues,

We are pleased to invite you to contribute to this Special Issue on the formulation and characterization of novel micro/nano droplets/bubbles and their interaction with acoustic waves in the medical field.

This Special Issue aims to provide a collection of the newest research achievements in the use of gas-loaded structures in the field of therapy, diagnosis and theranostics.

Since the development of ultrasound contrast agents, based on gas-filled micro-sized bubbles, as enhancers of the capabilities of ultrasounds for imaging modality, these structures have increasingly become a subject of interest for several researchers in different medical areas. In particular, the formulation of nano-sized and stable bubbles/droplets is still a challenge for several researchers in the development of new imaging, tracing and analytical techniques, operating in deeper sites of the body. Furthermore, these structures can interact with focused ultrasounds in a localized area, inducing the sonoporation phenomenon, with an increase in cell membrane permeability, making them useful in therapy and theranostic fields.





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## Editor-in-Chief

### Prof. Dr. Patrick J. Sinko

Ernest Mario School of  
Pharmacy, Rutgers, The State  
University of New Jersey, William  
Levine Hall, Room 225C, 160  
Frelinghuysen Road, Piscataway,  
NJ 08854-8020, USA

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*Pharmaceutics* Editorial Office  
MDPI, Grosspeteranlage 5  
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