



## Antimicrobial Sonodynamic and Photodynamic Therapies

Guest Editors:

**Dr. Ewerton Garcia De Oliveira Mima**

Laboratory of Applied Microbiology, Department of Dental Materials and Prosthodontics, School of Dentistry, São Paulo State University (Unesp), Araraquara 14800-000, Brazil

**Prof. Dr. Ana Claudia Pavarina**

Laboratory of Applied Microbiology, Department of Dental Materials and Prosthodontics, School of Dentistry, São Paulo State University (UNESP), Araraquara 14801-903, Brazil

**Dr. Livia Nordi Dovigo**

Department of Social Dentistry, School of Dentistry, São Paulo State University (UNESP), Rua Humaitá 1680, Araraquara SP 14801-903, Brazil

Deadline for manuscript submissions:

**closed (31 May 2023)**



[mdpi.com/si/122995](https://mdpi.com/si/122995)

### Message from the Guest Editors

Dear Colleagues,

Global changes have influenced the existing infectious diseases, such as vector-borne illness, and the emergence of new pathogens, which may result in epidemics and pandemics. Moreover, the overuse of antimicrobial agents (antibiotics and antifungals) has led to the problem of antimicrobial resistance. Multidrug-resistant pathogens are difficult to treat and cause diseases with high morbidity and mortality; sometimes no option of treatment is available. Microbial biofilms are also a challenge, because they require high concentrations of antimicrobials for their inactivation and are responsible for chronic and recurrent diseases. Therefore, the development of alternative therapies is encouraged, and antimicrobial photodynamic and sonodynamic therapies (aPDT and aSDT) have been studied in the battle against new and/or resistant microbes.

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following: new photosensitizers (PS) and formulations, biofilms, combination therapy, cell biology, molecular biology, biophotonics, oxidative stress, and virulence.



an Open Access Journal by MDPI

## 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

## Message from the Editor-in-Chief

*Pharmaceutics* (ISSN 1999-4923) is an online open access journal on the science and technology of pharmaceutics and biopharmaceutics. The scientific community, the wider community and the general public have unlimited and free access to the content as soon as a paper is published; this open access to your research ensures your findings are shared with the widest possible audience. Please consider publishing your impressive work in this high quality journal. We would be pleased to welcome you as one of our authors.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Pharmacology and Pharmacy) / CiteScore - Q1 (Pharmaceutical Science)

## Contact Us

---

*Pharmaceutics* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/pharmaceutics](http://mdpi.com/journal/pharmaceutics)  
[pharmaceutics@mdpi.com](mailto:pharmaceutics@mdpi.com)  
X@MDPIpharma