

## Special Issue

# Advances in the Development of Cutting-Edge Drug Delivery Systems for the Effective Treatment of Chronic Skin Wounds

### Message from the Guest Editors

Hard-to-close wounds represent a huge burden for both the society and the healthcare systems and their impact is expected to progressively grow due to the aging population and the increasing incidence of obesity. To tackle this critical issue, a great variety of wound dressings have been developed, aiming to locally release therapeutic agents, promptly face infections, and provide a proper wound environment to enhance tissue healing. Advancements in biomaterial design, diagnostic imaging, and material processing techniques have significantly supported the research of smart and innovative platforms. However, the ideal wound dressing still does not exist. Therefore, this Special Issue aims at critically discussing the state of the art of wound dressings and highlighting future directions for the development of advanced systems to treat chronic skin wounds. We welcome the submission of original research articles, reviews and communications. Special interest is devoted to works dealing with the design of innovative drug delivery carriers, smart patches, wound-responsive systems, drug-releasing bioinks, antimicrobial materials, and antibiotic-free treatments.

---

### Guest Editors

Dr. Rossella Laurano

Department of Mechanical and Aerospace Engineering, Politecnico di Torino, Turin, Italy

Dr. Monica Boffito

Department of Mechanical and Aerospace Engineering, Politecnico di Torino, 10129 Torino, Italy

---

### Deadline for manuscript submissions

closed (31 December 2022)



## Pharmaceutics

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.5  
CiteScore 10.0  
Indexed in PubMed



[mdpi.com/si/86888](https://mdpi.com/si/86888)

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

[mdpi.com/journal/  
pharmaceutics](https://mdpi.com/journal/pharmaceutics)





# Pharmaceutics

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.5  
CiteScore 10.0  
Indexed in PubMed



[mdpi.com/journal/  
pharmaceutics](https://mdpi.com/journal/pharmaceutics)



## About the Journal

### Message from the Editor-in-Chief

*Pharmaceutics* (ISSN 1999-4923) is an online open access journal on the science and technology of pharmaceuticals and biopharmaceuticals. 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.

---

### 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

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Pharmacology and Pharmacy) / CiteScore - Q1 (Pharmaceutical Science)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.7 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the second half of 2025).