

Special Issue

Magnetic Nanoparticles for Bone Regeneration and Cancer Therapy

Message from the Guest Editors

Nanoparticles magneto-responsive are recently studied and already applied in medicine for magnetic resonance imaging, drug delivery systems, tissue regeneration, cancer diagnosis and treatment, extraction of biomolecules and lab-on-a-chip others.

Drug delivery systems can likewise take advantage of magnetism to face its two main challenges: targeting the drug to a specific site and having the ability to control drug release over time. Thus, another possible approach is to implant a magnetic scaffold in the site where the drug must be delivered that will work as a target to attract the magnetic nanoparticles conjugated with the drug and allow the control of their spatial distribution.

Regarding bone tissue regeneration, several in vivo and in vitro studies report osteogenesis improvement after bone or bone cells exposition to a particular intensity of a magnetic field.

Taking all these questions into account, the primary aim of this Special Issue is to summarise recent research and the state-of-the-art use of magnetic nanoparticles in cancer diagnosis and treatment and bone tissue regeneration.

Guest Editors

Prof. Dr. Fernando J. Monteiro

i3S—Instituto de Investigação e Inovação em Saúde, Universidade do Porto, 4200-135 Porto, Portugal

Dr. Marta Laranjeira

i3S—Instituto de Investigação e Inovação em Saúde, Universidade do Porto, 4200-135 Porto, Portugal



Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



mdpi.com/si/138021

Pharmaceutics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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).