

Special Issue

Innovative Drug Delivery Platforms: From Natural to Engineered Materials

Message from the Guest Editor

The innovations in Drug Delivery Systems are strongly associated with the development of support materials as well as their functionalization in order to assure targeting, internalization, tuned delivery rate and profile, etc. This Special Issue focuses on multifunctional, smart drug delivery systems for diagnosis and treatment of cancer, infections, and diabetes, etc. Regarding desired support materials, we are especially looking for natural and synthetic polymers, carbonaceous materials (carbon nanotubes, fullerenes, graphene, etc.), oxides (including micro and mesoporous materials), metal nanoparticles (silver, gold, etc.), and composite materials. The mechanism of delivery can be mainly based on diffusion, swelling, or chemical reaction; can be triggered by any factors such as temperature, pH, enzymes, or different external factors such as light, alternating electromagnetic fields, etc.; and can be resorbable or non-resorbable supports, etc. Additionally, manuscripts devoted to the study of the potential, short, mid-, and long-term efficiency and toxicity related to the use of drug delivery systems are welcome.

Guest Editor

Prof. Dr. Anton Ficaï

1. Department of Science and Engineering of Oxide Materials and Nanomaterials, Faculty of Applied Chemistry and Materials Science, National University of Science and Technology Politehnica Bucharest, 1-7 Gh. Polizu St., 011061 Bucharest, Romania

2. Academy of Romanian Scientists, 54 Splaiul Independenței St., Bucharest, Romania

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Pharmaceutics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
pharmaceutics@mdpi.com

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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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