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Drug Delivery for Cardiovascular Diseases

Guest Editor:

Prof. Dr. Domenico Tricarico
Section of Pharmacology, Department of Pharmacy-Pharmaceutical Sciences, University of Bari, Via Orabona 4, 70125 Bari, Italy

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Message from the Guest Editor

Dear Colleagues,

Small molecules are used to treat cardiovascular system diseases (CVDs), and different formulations have been developed to improve solubility, PK, and efficacy/safety. Examples of classically used drugs include diltiazem, isosorbide-5-mononitrate, metoprolol, propafenone, and aspirin. Formulations of valsartan, atenolol, atorvastatin, and ezetemide have recently been developed. Emerging evidence indicates that nano-drug delivery systems (NDDSs) have the ability to increase stability and water drug solubility, increase the uptake of target cells, improve the PK, and can be used to deliver biologics and small molecules by various routes. NDDSs may improve the effectiveness of drugs in CVDs. However, less attention has been dedicated to safety. Nanomaterials can be highly reactive, generating ROS and affecting macromolecules, which leads to cell growth inhibition or cell cycle modification. In special populations including old people with chronic CVDs or in neonatal/pediatric patients affected by rare diseases, the efficacy and safety of these formulations need to be evaluated.

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Editor-in-Chief

Prof. Dr. Patrick J. Sinko
Department of Pharmaceutics, Ernest Mario School of Pharmacy, Rutgers University, Piscataway, NJ 08854, USA

Message from the Editor-in-Chief

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Pharmaceutics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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