Editorial

Efficacy, Toxicology, and PK/PD of Nanomedicine Administered by Different Strategies

Recent developments in nanomaterials for the therapy of deadliest diseases have gained significant interest because of their advantages, such as reduction in systemic toxicity, easy surface functionalization with passivation and targeting moieties, and enhanced drug accumulation in specific tissue. Nanomedicines and nanomaterials can be administered by different strategies, including oral, local, intravenous, and transarterial administration, which are the underlying determinants for their therapeutic efficacy, pharmacokinetics and pharmacodynamics. In order to optimize the therapeutic outcomes, careful design and synthesis of nanomedicines are guided by the administration strategies. It requires a broad-system view for innovative nanomaterials and their clinical applications. The aim and scope of the issue is to introduce Current Drug Metabolism readers to this important topic of efficacy, toxicology, and PK/PD of nanomedicine administrated by different strategies.

I would like to thank Editor-in-Chief, Michael Sinz, for his support and all authors for their contribution to this special issue. I am grateful for all peer reviewers’ time and expertise, which help to improve quality of articles. I also thank Maryam Shaikh for the excellent coordination in publication process.

Xianwei Meng
(Guest Editor)
Laboratory of Controllable Preparation and Application of Nanomaterials
Technical Institute of Physics and Chemistry
Chinese Academy of Sciences
Beijing 100190, P.R. China
E-mail: mengxw@mail.ipc.ac.cn