

Tentative Outline (Preliminary Proposal of Thematic Issue)

Special/Thematic Issue for the journal Current Drug Metabolism

Title of the Thematic Issue: Factors influencing ADME properties of drugs: advances and applications

Guest Editor's Name: *Shuang-Qing Zhang, Feng Chen*

• Scope of the Thematic Issue (Brief introduction / abstract explaining the Thematic Issue):

In previous consecutive thematic issues for **Current Drug Metabolism** “*Absorption, disposition and pharmacokinetic properties of novel therapeutic modalities*” in late 2020 and early 2021, the latest and outstanding developments in absorption, distribution, metabolism and excretion (ADME) of various drugs were fully reported, and attracted extensive attentions in the scientific research fields. The present issue continues to further probe into factors influencing ADME properties of drugs. Nowadays, some traditional molecules, novel therapeutic modalities and potential drug candidates are limited or hindered in clinical applications and drug development due to side effects, poor patient compliance and drug resistance, *etc.*, and effective strategies are proposed to address above-mentioned problems via understanding and utilizing factors governing drug ADME properties. The scope of the thematic issue of **Current Drug Metabolism** is to solely include **reviews** on state-of-the-art advances in factors influencing ADME properties of drugs, as well as their applications in drug discovery, development and clinical therapy.

Keywords: Absorption, Distribution, Metabolism, Excretion, Influencing factor, Specific population, Intrinsic property, Disease state, Gender, Genetics, Ontogeny, Drug delivery systems, Diet

Sub-topics:

The sub-topics to be covered within the issue should be provided:

- Physicochemical and physiologic properties
- Drug delivery systems
- Specific populations: geriatric, obese, pregnant and pediatric patients
- Disease and comorbidity, such as renal disease and hepatic disease
- Sex differences
- Ethnicity, race and species
- Genetics and epigenetics
- Ontogeny
- Drug-drug interactions and herb-drug interactions
- Diet
- CLOCK circadian rhythms and chronotherapy
- Dosing regimen

Factors influencing ADME properties of drugs include but are not limited to the contents mentioned in the subtopics.

Schedule:

- ✧ Deadline to submit the finalized proposal of Thematic issue: **3 months after subjected approval of preliminary proposal**
(“Finalized proposal” would be the same as this document, however the “Tentative titles of the articles and list of contributors with their names, designations, addresses and email addresses” should also be included in the finalized proposal.)

Now

- ✧ Complete Thematic issue submission deadline: 31 August 2022

Details of Guest Editor:

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