Challenges and Perspectives of Drug Transporters: Where Do We Go from Here?

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

During the last decades, drug transporters have been identified as important determinants of the pharmacokinetics and, in turn, the pharmacodynamics of many drugs. Prominent and well-characterized examples in this regard are P-gp, BCRP, OATP1B1, and OATs, mediating the uptake or efflux of drugs and/or their metabolites in intestine, liver, and kidney. Consequently, drug transporters for new molecular entities have to be considered in today's drug development programs, according to recent guidelines from the medical authorities.

However, our current knowledge is still limited to some 20–30 transporters, whereas we know today about 50 ABC and 400 SLC transporters. Thus, additional knowledge about the physiological and pharmacological roles of the remaining transporter proteins is needed.

This Special Issue aims to address some of the aforementioned open questions related to drug transporters.

Prof. Dr. Stefan Oswald
Guest Editor

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Special Issue

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Message from the Editor-in-Chief

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