



Molecularly Imprinted Polymers in Pharmaceutical and Biomedical Area: Let's Make the Point

Guest Editor:

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Deadline for manuscript
submissions:

closed (30 April 2020)

Message from the Guest Editor

Dear Colleagues,

Molecular imprinting represents a very powerful technology for the synthesis of polymeric matrices (molecularly imprinted polymers, MIPs). Currently, the potential application of MIPs as drug delivery systems (DDSs) for the controlled release of drugs is attracting significant attention due to their ability to control the release of the therapeutic agent used as template during the polymerization process. This results in a prolonged drug release and, thus, in reduced side effects and improved patient compliance. Moreover, MIPs can be modified by conjugation with specific targeting and/or imaging molecules, obtaining multimodal devices.

These polymeric materials can also find application in pharmaceutical and biomedical fields as chemo/biosensors for the detection of drugs and their metabolites, artificial receptors and antibodies, etc. However, the optimization of these polymeric materials for drug delivery, development and screening applications represents an open challenge.

Therefore, this Special Issue is devoted to the application of MIPs in drug delivery and the most recent innovations in this field.

Dr. Ortensia Ilaria Parisi
Guest Editor



mdpi.com/si/26304

Special Issue



an Open Access Journal by MDPI

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Message from the Editor-in-Chief

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