

## Special Issue

# Innovative Drug Formulations Require Tailored Characterization Approaches

### Message from the Guest Editors

The pressing need to develop successful treatment strategies has prompted research of both symptomatic and disease-modifying treatments. The advent of new molecular and cellular targets has opened the possibility to re-evaluate certain acknowledged active pharmaceutical ingredients, along with new leads/drug candidates and/or repurposed ones. Although the usual bottlenecks still challenge treatment success (blood-brain barrier, skin barrier, protein corona, cellular uptake, etc.), new drug formulations, often relying on micro- and nanostructured delivery systems or uniquely ordered materials/excipients, are being designed. Such novel drug formulations require tailored characterization approaches, encompassing diverse *in silico*, *in chemico*, *in vitro* and *in vivo* methods.

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