



Advances in Solid Lipid Micro- and Nanoparticle Technology, 2nd Edition

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Message from the Guest Editors

Dear Colleagues,

Undoubtedly, solid lipid micro- and nanoparticles show high potential in a number of different therapeutic areas. The massive use of lipid nanoparticles in COVID-19 mRNA vaccines has shed new light on these carriers due to the proven safety and the availability of large-scale manufacturing. Unfortunately, the intrinsic solid-state properties of lipids are detrimental to particle storage stability and sometimes restrict their market appeal. Therefore, in spite of the recorded progress, solid lipid particle technology is still striving to overcome unmet development issues.

This Special Issue aims to include the most recent research efforts addressing lipid particle technology challenges. Detailed topics are: advanced manufacturing techniques; new solid lipid particle engineering approaches to enhance stability and delivery performances; new approaches in the use of solid lipid particles for targeted or local drug delivery; and technologies addressing the delivery of large biomacromolecules, such as peptide, proteins, DNA, siRNA and mRNA.

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Message from the Editor-in-Chief

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