



Applications of Mesoporous Silica Nanoparticles (MSNs) in Innovative Drug Delivery and Therapeutics

Guest Editors:

Dr. Sandra Gago

LAQV-REQUIMTE, Department of Chemistry, NOVA School of Science and Technology, NOVA University Lisbon, Campus da Caparica, 2829-516 Caparica, Portugal

Dr. Miguel Santos

Department of Chemistry, Universidade NOVA de Lisboa, Calçada de Alfazina 2, 2825-149 Caparica, Portugal

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Message from the Guest Editors

Mesoporous silica nanoparticles (MSNs) offer several advantages in drug formulations. On one hand, they can act as antimicrobial agents by themselves, with specific activity according to their structure. On the other hand, they can also increase the therapeutic effect of drugs, either by targeted delivery to the disease site or by controlled drug release. In the latter case, nonspecific interactions are minimized, thus lowering side effects and decreasing the required treatment dose. In addition, these nanomaterials have tailored mesoporous structures, large surface area and pore volume, selective surface functionality, morphology control, high loading capacity for therapeutic agents and good biocompatibility.

In this Special Issue, we invite academics and pharmaceutical researchers to bring their new insights into innovative MSN-based methods to improve therapeutic efficacy and controlled drug delivery, among other pharmaceutical applications.





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Ernest Mario School of
Pharmacy, Rutgers, The State
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Levine Hall, Room 225C, 160
Frelinghuysen Road, Piscataway,
NJ 08854-8020, USA

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Pharmaceutics Editorial Office
MDPI, Grosspeteranlage 5
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