

Special Issue

Progress in the Application of Nanoparticles Against Lung Infection/Inflammation

Message from the Guest Editor

Inhalation is the most direct way to access the wide lung surface, and aerosolization of nanoparticulate material allows targeted delivery of therapeutic agents to specific sites of the upper respiratory tract and alveolar surface. Antibiotics formulated in biodegradable nanoparticles such as nebulized liposomes have already entered the market of inhaled antimicrobials. The development of this promising area of nanomedicine is expected to provide rapid treatments against lethal infectious outbreaks, and antimicrobial agents that, combined with anti-inflammatory activity, would magnify their effectiveness on concomitant infections accompanying certain lung tumors. This Special Issue will focus on the design, structural characterization and performance in vitro /in vivo of novel nanoparticles aimed to treat lung bacterial, fungal or viral infections, their resultant inflammation, oxidative stress and eventual antitumoral activity.

Guest Editor

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Deadline for manuscript submissions

30 October 2025



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/239878

*International Journal of
Molecular Sciences*
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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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