

## 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.

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### Guest Editor

Prof. Dr. Eder Lilia Romero

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## International Journal of Molecular Sciences

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