

Special Issue

Metallic Nanoparticles in Pharmaceutical Applications

Message from the Guest Editors

Nanotechnology allows designing novel pharmaceutical applications being metallic nanoparticles (NPs) promising platforms to develop specific medical devices and better therapeutic tools as drug delivery systems. Properties of metallic NPs such as optical, magnetic and electrical activities make them an attractive nanoparticle-based image tools to be used in early diagnoses as nuclear magnetic resonance or magnetic resonance imaging. Moreover, magnetic properties facilitate their capacity to attach to certain cells and thus the possibility to remove malignant cells from the blood stream or water purification in front of bacteria. In addition, their potential use as theranostic agents open great expectations in relation with personal medicine. Not only this, metallic NPs can generate reactive oxygen species (ROS) which is involved multiple biological functions in health and disease. This issue will focus in these pharmaceutical applications and more.

Prof. Dr. Pilar Vinardell Martinez-Hidalgo Keywords

- nanoparticle-based image
- theranostic
- anticancer
- antimicrobial
- drug delivery
- ROS

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