

Special Issue on
Nanomaterials for Medicine: Escaping From Excretory System Organs

CALL FOR PAPERS

Nanomaterials have shown an enormous potential as therapeutics, diagnostics, and combined theranostics for a number of diseases. One of the unique aspects of nanoparticles stems from the possibility to modify their composition and surface properties to achieve peculiar chemical, physical, and physiological features. Moreover, the possibility to include active agents, dyes, or chelating moieties has increased their versatility and potential medical applications. Engineered nanoparticles can combine therapeutic features, such as drug delivery, hyperthermia, or radiation and phototherapy, with imaging functionalities, like photoacoustic, magnetic, or X-ray-based diagnostics. Despite the several advantages, one of the major concerns regarding the clinical use of nanomaterials is related to their clearance and persistence in the organisms. Indeed, after the designed action, nanoparticles can accumulate in excretory system organs, such as kidneys, liver, and spleen, increasing the likelihood of toxicity and the interaction/interference with common medical diagnosis.

In this special issue, we aim to highlight the recent progress in the design and medical application of nanomaterials that do not accumulate in the organism. Our purpose is to collect the advances in this current and exciting topic in order to promote communication between researchers about novel approaches and future prospects.

We invite investigators to contribute original research articles as well as review papers that will stimulate the continuing efforts to develop promising nanomaterials for medical application and to help in translation of nanoparticles into the clinic.

Potential topics include but are not limited to the following:

- ▶ Medical application of organic (lipids, polymers) or inorganic (metals, metal-oxide, and silica) nanoparticles
- ▶ Design of innovative nanomaterials able to avoid accumulation in the organism
- ▶ Insights on the distribution of nanomaterials in the organism

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/jnm/nmed/>.

Lead Guest Editor

Valerio Voliani, Istituto Italiano di Tecnologia, Pisa, Italy
valerio.voliani@iit.it

Guest Editors

Laura Fabris, Rutgers University, New Jersey, USA
lfabris@rci.rutgers.edu

Orazio Vittorio, University of New South Wales, Sydney, Australia
ovittorio@ccia.org.au

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First Round of Reviews

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