

Special Issue on
**Nanomaterial-Based Approaches in Personalized
Medicine: From Diagnosis to Therapy**

CALL FOR PAPERS

The future of patient care will be progressively based on personalized medicine. In this view, it is widely accepted that nanotechnology could serve as a smart tool and multidisciplinary route, to reach the goal. The combination of both therapeutic and diagnostic capabilities in one *nanoplatform* is emerging as a promising theranostic paradigm. In fact, the formally called nanomedicine demonstrated an astonishing potential to transform classic medicine, and it could be the best candidate to help the transition from the “one drug to fit all” mode to personalized treatments. Nanoplatforms allow for a wide variety of functionalization and modification in order to avoid any biological barriers and improve drug-targeting by reducing side effects. Moreover, nanomedicine has the potential to be very versatile and to be applied on a vast plethora of conditions from cancer to inflammation or even traumas. Hence, the complete tunability of nanocarriers renders them customizable products that could become an “*ad hoc*” effective treatment for future patients.

In this special issue, we aim to highlight breakthroughs in the design, synthesis, functionalization, characterization, and *proof of concept* of nanomaterial-based approaches. Special attention will be given to studies in which the properties of the material at the nanoscale may be related to the physiological effect at the tissue and organism level. Demonstration of material properties tailored and tuned to meet specific biomedical needs will be well regarded. We invite contributions of review and original papers reporting recent efforts in the field of nanomedical applications.

Potential topics include but are not limited to the following:

- ▶ Design of innovative nanomaterial-based approaches (including linear and branched polymers, dendrimers, micelles, inorganic nanoparticles, and protein conjugates)
- ▶ Nanocarriers for biomolecules delivery
- ▶ Tools for molecular diagnostics
- ▶ Immunomodulatory nanomaterials
- ▶ Nanomaterials for cell tracking
- ▶ Nanoparticles for imaging
- ▶ *In vivo* assessment of nanomaterials

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

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Manuscript Due

Friday, 7 April 2017

First Round of Reviews

Friday, 30 June 2017

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