

## Tentative Outline

### Special Issue for MINI-REVIEWS IN MEDICINAL CHEMISTRY

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## IMPACT OF NANOTECHNOLOGY ON MEDICINAL CHEMISTRY

### Aims & Scope:

Nanotechnology is a multidisciplinary approach that employs a vast and diverse array of tools and techniques derived from engineering, physics, chemistry, and biology. Within the past decade, there has been a flurry of new research, development and patent applications around nanoscaled technologies in the health area. One of the principal areas of nanotechnology is “nanomedicine,” which, according to the National Institute of Health (NIH) Nanomedicine Roadmap Initiative, refers to highly specific medical intervention at the molecular scale for diagnosis, prevention and treatment of diseases. This issue of the Mini Reviews in Medicinal Chemistry aims to focus on the impact of nanotechnology, nanomedicine and medicinal chemistry on human health and well being.

### Key words:

Nanotechnology, nanomedicine, molecular scale, medicinal chemistry, controlled release, nanotoxicology.

### Subtopics:

Advances pharmaceutical nanotechnology. Strategies on pulmonary drug delivery

Nanostructures as promising tools for delivery of antimicrobial peptides

Controlled release drug delivery nanosystems, combining nature and synthetic bio-elements

Recent advances in nanoliposomal aptamer therapeutics

Dendrimer chemistry and its application for drug delivery

Synthesis of block copolymers for drug delivery nano systems (ddns)

Nanotoxicology as a new forum of nanoscience: toxicogenomics of polymeric gene delivery nanosystems

### Schedule:

Manuscript submission deadline:	October 2011
Peer Review Due:	December 2011
Revision Due:	January 2012
Notification of acceptance by the Guest Editor:	February 2012
Final manuscripts due:	February 2012