SUPRAMOLECULAR SYSTEMS IN NANOMEDICINES: THERAPEUTIC APPLICATIONS AND FUTURE PERSPECTIVES

Aims & Scope:

During the last few decades large strides have been made in nanomedicine and a first generation of nanotherapeutics have already made it to the market. The great potential of nanomedicine largerly stems from its multidisciplinary nature, where the fields of medicine, chemistry, physics, biology, mathematics, and engineering are integrated. By combining the knowledge of all these fields innovative supramolecular nanotherapeutics can be designed for the treatment of a variety of diseases. Supramolecular nanosystem provide several advantages over conventional drugs, such as increasing the circulation time, improving drug accumulation in the target region and decreasing side effects. This proposal would focus on the impact of supramolecular systems in nanomedicine. In particular, a summary of therapeutic applications and future perspectives of these systems would be presented. Experts in the field of supramolecular chemistry and nanomedicine will be invited to contribute.

Key words:

Supramolecular chemistry; drug delivery systems; nanomedicine; anticancer therapy, therapeutic treatment; chemometrics, chemotherapy.

Subtopics:

Supramolecular chemistry, drug delivery systems, nanomedicine.

Schedule:

- Manuscript submission deadline: June 30th 2014
- Peer Review Due: August 31st 2014
- Revision Due: September 30th 2014
- Notification of acceptance by the Guest Editor: October 15th 2014
- Final manuscripts due: November 1st 2014