

CALL FOR PAPERS

JOURNAL OF BIOMEDICAL NANOTECHNOLOGY

www.aspbs.com/jbn
(Impact Factor = 4.216)

A Special Issue on **POLYMER CONJUGATE BASED NANOTHERAPEUTICS**

GUEST EDITORS: Jayakumar Rangasamy, Omathanu Perumal, Jayant Khandare, Marcelo Calderon

Journal of Biomedical Nanotechnology covers applications of nanotechnology in medicine, biotechnology, biosciences, and all other related fields of life sciences. Over the years the journal has created a unique niche in the area of biomedical nanotechnology with a focus on research at the interface of material and biological sciences. There has been burgeoning interest in polymer based nanomedicines. To this end there are several exciting developments in the area of polymeric prodrugs or polymer-drug conjugates. Several polymeric materials including natural and synthetic polymers with different architectures are being investigated for developing polymeric therapeutics. There are several questions to be addressed including the rational design of polymer conjugates, conjugation chemistry, drug release, influence of polymer shape and architecture on drug conjugation, release and biological performance. This special issue is an attempt to summarize the developments in polymer conjugate based nanotherapeutics for the delivery of drugs and diagnostic agents. Review and research articles on different aspects of polymer conjugate nanotherapeutics are invited for this special issue.

RESEARCH TOPICS COVERED IN THIS SPECIAL ISSUE (but not limited to):

- Design, evaluation and biological performance of polymer-drug conjugates
- Design, evaluation and biological performance of polymer-protein conjugates
- Design, evaluation and biological performance of polymer-DNA polyplexes
- Design, evaluation and biological performance of drug conjugates of polymeric micelles and drug-polymer conjugate self-assembled micelles
- Influence of polymer shape and architecture in the design and biological performance of drug/protein/DNA-polymer conjugates
- Design, evaluation and biological performance of multifunctional polymer conjugates including theranostics.
- Cell uptake dynamics of polymer conjugates
- Pharmacokinetics and biodistribution of polymer conjugates
- Safety, immunogenicity and fate of polymer conjugates.

MANUSCRIPT SUBMISSION

Journal of Biomedical Nanotechnology publishes (1) **Original Research Papers** (2) **short Communications** and (3) state-of-the-art **Reviews** (with author's photo and biography). Authors are advised to follow the manuscript preparation guidelines at www.aspbs.com/jbn. The manuscripts should be submitted electronically **as a single** (text/figures/tables) **PDF File** through the journal submission portal <http://mstracker.com/submit1.php?jc=jbn>. Also submit a cover letter with a list of three potential referees and also indicate the name of the special issue in the subject. Please submit your manuscripts by **Dec. 31, 2012**. Please include the following statement in the first page of the manuscript and in the cover letter "This manuscript is submitted for the special issue on polymer conjugate based nanotherapeutics".

GUEST EDITORS

Jayakumar Rangasamy, PhD, Amrita Center for Nanosciences and Molecular Medicine, Amrita Institute of Medical Sciences and Research Centre, Kochi, Kerala, India. E-mail: rjayakumar@aims.amrita.edu & jayakumar77@yahoo.com

Omathanu Perumal, PhD, Department of Pharmaceutical Sciences, Associate Director, Translational Cancer Research Center, South Dakota State University, Brookings, SD-57007, USA; Email: omathanu.perumal@sdstate.edu

Jayant Khandare, PhD, Polymer Chemistry Group, Piramal Life Sciences Limited, Mumbai, India.
E-mail: jayant.khandare@piramal.com

Marcelo Caldero, PhD, Institut für Chemie und Biochemie; Freie Universität Berlin, Berlin, Germany;
E-mail: marcelo.calderon@chemie.fu-berlin.de