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Special issue for Current Radiopharmaceuticals journal

Publisher: Bentham Sciences
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Special issue description:

Unique physicochemical and optical properties of Gold nanoparticles (GNPs) such as high atomic mass, high surface to volume ratio, rich surface chemistry, surface plasmon resonance, and low toxicity make them promising agents for multimodality imaging, tumor targeting, and as carrier of various therapeutics. In addition, GNPs have been used as photothermal therapeutics against cancer. Targeting ligands, imaging labels, targeted therapeutic drugs, thermal features, high dose absorbing feature, and other functionalities can be combined to develop targeted diagnostic and therapeutic modalities in molecular and cellular scales. They can be used in drug targeted delivery systems, as radiosensitizing agents, in magnetic hyperthermia and as dose enhancement agents. This thematic issue reviews the recent advances in applications of GNPs in cancer diagnostic and therapeutic techniques. The main focus of the issue is applications of GNPs in targeted drug delivery, as contrast agents in molecular and cellular imaging, as radiosensitizers in kilo-voltage and mega-voltage radiotherapies, and in electrochemotherapy techniques. In addition, toxicity and biodistribution of GNPs as well as the clinical considerations and challenges in developing different techniques based on these nanoscale materials are discussed.
Special Issue for Current Radiopharmaceuticals

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Special Issue Title: Applications of gold nanoparticles (GNPs) in cancer managements

Aims & Scope:

To review the recent therapeutic strategies in cancer treatment: conventional to targeted radionuclide therapy using nuclear nanotechnology
To overview the recent advances in GNPs applications in cancer managements including early diagnosis and treatments.
To review recent advances in targeted drug delivery based on GNPs in cancer treatments.
To review applications of GNPs in medical imaging as contrast agents.
To review applications of GNPs as radiosensitizer in kilo-voltage and mega-voltage radiotherapy.
To review of recent advances in photothermal techniques for cancer treatments based on GNPs.
To review the clinical challenges of using GNPs in cancer managements.
To review the theoretical and clinical considerations in targeted radionuclide therapy based on magnetic nanotechnology.

Key words: gold nanoparticles, cancer treatment, targeted drug delivery, radiosensitizer, contrast agents

Proposed titles:

1. Recent advances in targeted radionuclide therapeutic strategies in cancer treatment:
   Radionuclide therapy
   Author(s): under arrangement
   Affiliation:

2. Recent advances in GNPs applications in cancer managements including early diagnosis and treatments.
   Author(s): under arrangement
3. Recent advances in applications of GNPs as targeted drug delivery in cancer treatments.
   Author(s): under arrangement
   Affiliation: China

4. Applications of GNPs in medical imaging as contrast agents.
   Author(s): Ali Yadollahpour
   Affiliation: Iran

5. Applications of GNPs as radiosensitizer in kilo-voltage radiotherapy.
   Author(s): under arrangement
   Affiliation: Canada

6. Applications of GNPs as radiosensitizers in mega-voltage radiotherapy.
   Author(s): under arrangement
   Affiliation: Iran

7. Recent advances in GNPs based magnetic hyperthermia techniques for cancer treatments.
   Author(s): under arrangement
   Affiliation: Germany

   Author(s): Dr. Neelesh Malviya, Associate Professor,
   Affiliation: Smiriti College of Pharmaceutical Education, Indore, India

9. Applications of GNPs as contrast agents in molecular and cellular imaging.
   Author(s): under arrangement
   Affiliation: British Colombia University

10. Applications of GNPs in cancer treatment: review of biodistribution and toxicity.
    Author(s): Dr. Vinod Tiwari, Assistant Professor,
    Affiliation: Department of Pharmacology and Toxicology,
    NIPER Ahmedabad, Palaj, Gandhi nagar-382355, Gujarat, India.

11. Applications of GNPs in electrochemotherapy: reviewing the recent applications and future perspectives.
12. Targeted radionuclide therapy using nuclear nanotechnology: Theoretical perspectives and clinical considerations

Schedule:

Manuscript submission deadline: 20 Feb 2017
Peer Review Due: 10 April 2017
Revision Due: 25 April 2017
Notification of acceptance by the Guest Editor: 30 April 2017
Final manuscripts due: 5 May 2017
Special Issue publication: May 2017

Paper Submission: Please submit manuscript through email to guesteditor.ay@gmail.com

Note: Tentative authors are requested to first send their title and the list of authors to the guest editor through Email: guesteditor.ay@gmail.com and after confirmation by the guest editor they can start the manuscript composing.