Special Issue

Photothermal Therapy for Cancer Treatment

Message from the Guest Editor

Among the novel treatments that nanomedicine can offer, photothermal therapy (PTT) is one of the most promising strategies for cancer treatment. PTT involves designing photoactivatable nanocarriers, which can absorb nontoxic near-infrared light to produce heat inside the target cells, inducing cell death. This Special Issue of *Bioengineering* on "Photothermal Therapy for Cancer Treatment" aims to collate original research papers and reviews that aim to provide a further understanding of PTT in the context of cancer research. The topics of interest for this Special Issue include, but are not limited to, the following:

- Novel and advanced nanomaterials for PTT;
- Studies of nanocarriers to transform near-infrared light into heat;
- Strategies to improve cancer PTT;
- Advanced strategies for nanomaterial functionalization for PTT;
- Approaches for improving specific cancer cell targeting;
- The development of tumor engineered models to validate the effect of PTT;
- Advanced techniques to track nanoparticles for PTT in in vivo and in tissue-engineered models;
- Advanced techniques for evaluating the effect of PTT in cancer cells.

Guest Editor

Dr. Aranzazu Villasante

Institute for Bioengineering of Catalonia (IBEC), The Barcelona Institute of Science and Technology (BIST), 08028 Barcelona, Spain

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Bioengineering
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
bioengineering@mdpi.com

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Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Bioengineering* (ISSN 2306-5354). *Bioengineering* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. *Bioengineering* provides an advanced forum for the science and technology of bioengineering. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie
Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

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