

## Special Issue

# Nanoparticle Systems for Cancer Phototherapy

### Message from the Guest Editor

Photodynamic therapy is a photo-mediated treatment that can be addressed for cancer treatment. In this treatment, the death of cancer cells is caused by the formation of reactive oxygen species due to the presence of photosensitizer molecules, light, and oxygen, which leads to oxidative stress of cells. However, the development of nanoparticle encapsulating molecules can present significant benefits to this therapy, allowing both tuning of the photo-mediated process and an increase in effectiveness with the delivery of photosensitizer molecules to the cells with reduced cytotoxic effect.

Under the leadership of and with the valuable contributions of Dr. Thais P. Pivetta from the Universidade Nova de Lisboa, this Special Issue, "Nanoparticle Systems for Cancer Phototherapy", invites you to prepare review articles and full-length papers that explore the development of organic or inorganic nanoparticles encapsulating photosensitizer molecules for easier delivery to tumor area and its effect on cells in the presence of radiation.

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### Guest Editor

Prof. Dr. Maria Raposo

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## International Journal of Molecular Sciences

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### Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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### Editor-in-Chief

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