Special Issue

Photodynamic Therapy 2.0

Message from the Guest Editors

Dedicating a volume to photodynamic therapy takes on great significance because it means that many steps have been taken to understand that such therapy can take on meaning. PDT is based on the cytotoxic action of some hyperactive oxygen species, especially singlet oxygen but also superoxide anion and hydroxyl radicals, generated by the transfer of energy and/or electrons from the photoexcited oxygen sensitizer. Three important mechanisms are responsible for the efficacy of PDT: (1) the direct death of tumor cells or inflammation, (2) damage to tumor vessels, and (3) immunological response associated with the stimulation of leukocytes and the release of interleukins and other cytokines, growth factors, complement components, acute-phase proteins and other immunoregulators. After the first successful edition, we are now launching a second volume, "Photodynamic Therapy 2.0". This new Issue continues to cover all aspects of photodynamic therapy including the discovery of new natural and synthetic photosensitizers, biomaterials and nanotechnology, in vitro and in vivo studies and clinical trials.

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Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to Biomedicines, be it original research, review articles, or developing Special Issues of current key topics.

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