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Photodynamic Therapy 2.0

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Message from the Guest Editors

Dear Colleagues,

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.

Dr. Stefano Bacci
Prof. Dr. Kyungsu Kang
Guest Editors



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Message from the Editor-in-Chief

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