

## Special Issue

# Reactive Oxygen Species and Growth Factors in Photodynamic Therapy (PDT), Photobiomodulation (PBM), and Radiation Therapy (RT)

### Message from the Guest Editors

Reactive oxygen species (ROS) play a key role in photodynamic therapy and radiation therapy, especially given the increased interest in FLASH-RT in the latter field. The continuously increasing capability that can be achieved by new generations of dosimetrical tools is making it feasible to quantify ROS more directly, via various means. This evolution has set the stage for us to understand the role of ROS in PDT and RT. In FLASH-RT, there is an awareness of the potential importance of ROS in demonstrating the difference between killing a tumor and damaging normal tissue. Given the plurality of imaging techniques available for initial staging, each clinical challenge can be met with a tailored image guidance solution. This Special Issue aims to provide an up-to-date overview of the most recent (technical) advances in the field of ROS modeling and detection. For a variety of cancers and interventions, we will cover the in vivo and in vitro uses of innovative technique to detect ROS for a wide range of modalities. Translational efforts and works that demonstrate the benefits for patients are of particular interest.

### Guest Editors

Prof. Dr. Timothy C. Zhu

Department of Radiation Oncology, University of Pennsylvania, Philadelphia, PA 19104, USA

Prof. Dr. Brian C. Wilson

Princess Margaret Cancer Centre, 101 College Street, Room 15-314, Toronto, ON M5G 1L7, Canada

### Deadline for manuscript submissions

closed (31 October 2025)



## Antioxidants

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*Antioxidants*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[antioxidants@mdpi.com](mailto:antioxidants@mdpi.com)

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## About the Journal

### Message from the Editor-in-Chief

It has been recognized in medical sciences that in order to prevent adverse effects of “oxidative stress” a balance exists between prooxidants and antioxidants in living systems. Imbalances are found in a variety of diseases and chronic health situations. Our journal *Antioxidants* serves as an authoritative source of information on current topics of research in the area of oxidative stress and antioxidant defense systems. The future is bright for antioxidant research and since 2012, *Antioxidants* has become a key forum for researchers to bring their findings to the forefront.

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### Editor-in-Chief

Prof. Dr. Alessandra Napolitano  
Department of Chemical Sciences, University of Naples “Federico II”,  
Via Cintia 4, I-80126 Naples, Italy

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