

# Special Issue

## Photodynamic Biology

### Message from the Guest Editor

Photodynamic action, as originally defined, is oxygen-dependent action. Delta singlet oxygen ( $D1O_2$ ) is an extensively studied type II photodynamic action involving excited state molecular oxygen, and it is responsible for modulating numerous cellular functions, including cell secretion, muscle contraction, cellular signaling, cell death and senescence, autophagy, gene transcription and translation, development, and protein oxidation. Although photodynamic action has been extensively studied in the context of diagnosis and therapy in addition to as a research tool for teasing apart specific cellular and molecular details, studies aiming to define the mechanisms of action at the cellular and molecular levels are scattered in the literature, in large numbers of journals and covering multiple disciplines. This Special Issue aims to call for a series of clearly defined cases of photodynamic modulation of biological activities.

The biological or enzyme-catalyzed generation, reaction, and quenching of delta singlet oxygen is of physiological and biochemical significance also of particular interest to this Special Issue.

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### Guest Editor

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### Deadline for manuscript submissions

closed (31 July 2024)



## Cells

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### Message from the Editorial Board

*Cells* has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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