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New Molecular Insights into Antimicrobial Photo-Treatments

Guest Editor:

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Deadline for manuscript submissions:

30 May 2024

Message from the Guest Editor

We invite investigators who are active in the field to submit original research papers as well as review articles to this Special Issue, to highlight the realization and the use of molecular and nano-systems for antimicrobial phototreaments, to provide new insights into the fundamental mechanisms of microbial photo-inactivation or to propose stimulating ideas and novel applications to expand the use of the methodology. Scientific contributions are expected to provide molecular-level information about the systems and/or the processes under study. The issue will focus on, but will not be limited to, the following aspects:

- Fundamental mechanisms of PDI, PTT or UV lightbased antimicrobial treatments:
- New photo-activated materials, including molecules and nanomaterials;
- New formulations of existing photo-activated agents;
- Targeted photo-treatments against bacteria and viruses:
- Photo-treatments exploiting endogenous molecules;
- Visualization of functional photo-activated agents in situ with advanced microscopy;
- Combination treatments with, e.g., antibiotics or antibodies;
- Photo-activated molecular systems for industrial and large-scale applications.



Specialsue









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Editor-in-Chief

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Message from the Editor-in-Chief

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