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Biophotonics for COVID-19 Diagnosis and Treatment

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Deadline for manuscript submissions:
closed (31 January 2022)

Message from the Guest Editors

Dear Colleagues,

Since beginning in December 2019, the COVID-19 pandemic has spread over the world. The Biophotonics community has rapidly responded with innovative biomedical optics technologies helping in the fight against COVID-19.

The purpose of this Special Issue is to highlight these innovative approaches to addressing COVID-19 with Biophotonics. We invite original research articles and state-of-the-art reviews focused on current knowledge and future perspectives of Biophotonics for COVID-19 diagnosis, management, and treatment.

The overall goal of the issue is to highlight the versatility of Biophotonics for responding to new health challenges with direct clinical implications.

Topics include:

1. Innovative Biophotonics technologies helping in the fight against COVID-19
2. Optical methods for quantifying the immune response to SARS-CoV-2
3. Fast and reliable diagnostic tools
4. New optical wearables for COVID-19
5. New developments in pulse oximetry
6. Diffuse optics for the evaluation of microvascular and endothelial health of different tissues
7. Photonics industry responses to COVID-19