



## Innovative and Emerging Light-Based Technologies for Biomedicine, Food Safety and Agriculture

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### Message from the Guest Editor

Dear Colleagues,

Since the formation of our solar system, the free energy for all life on Earth has been delivered in  $5.61 \times 10^{24}$  J of solar energy falling on the surface of the Earth every year. Sunlight plays many roles in living organisms. First, it can be a source of energy, especially for plants. Second, it can be a signal or “trigger” to start different photobiological reactions in living organisms, which eventually determine the induction of specific photobiological processes. About 300 years ago, Isaac Newton was the first to prove that visible light is made up of all the colors that we can see. The question arises, how does visible light interact with living matter? This Special Issue is dedicated to the innovative approaches to how, when, and why we can use the special regions of visible light (from blue to infrared) for different purposes in living systems. Moreover, it will include all emerging light-based biophotonic technologies which can be effectively used to solve some problems in biomedicine, food safety, and agriculture.

Prof. Dr. Zivile Luksiene  
*Guest Editor*





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## Message from the Editor-in-Chief

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