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# Bioluminescent and Fluorescent Proteins: Molecular Mechanisms and Modern Applications

Guest Editor:

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## **Message from the Guest Editor**

Dear Colleagues,

Bioluminescence, a natural phenomenon of visible light emission by living organisms, has been found in numerous terrestrial and marine organisms. Both the substrates and cofactors involved in bioluminescence reactions as well as the enzymes catalyzing these reactions have turned out to addition peculiar. In luciferases, he to bioluminescence systems contain "antenna" proteins, such as Green fluorescent protein (GFP), which e.g., modulate the bioluminescence color by means of energy transfer. This Special Issue of the International Journal of Molecular Science is devoted to experimental and theoretical studies on functioning mechanisms of bioluminescent proteins from various organisms, the proteins involved in bioluminescence (the lumazine protein, GFP and GPF-like proteins, and the enzymes participating in the synthesis of substrates), novel assays with the use of these proteins, and applications of these proteins in experimental biology and medicine. We invite authors to present their latest research in related fields











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## Message from the Editor-in-Chief

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