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# Bioluminescent and Fluorescent Proteins: Molecular Mechanisms and Modern Applications 4.0

Guest Editor:

#### Dr. Eugene S. Vysotski

Federal Research Center, Krasnoyarsk Science Center of the Siberian Branch of the Russian Academy of Sciences, Institute of Biophysics SB RAS, Krasnoyarsk 660036, Russia

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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. The study bioluminescent reactions in organisms has revealed a specific feature—the mechanisms underlying emission considerably differ in species of different taxa. Both the substrates and cofactors involved bioluminescence reactions as well as the enzymes catalyzing these reactions have turned out to be peculiar. In addition to luciferases, many bioluminescence systems contain "antenna" proteins. Although investigation of bioluminescence and fluorescence proteins is undoubtedly of fundamental interest, the main driving force that has attracted researchers to this topic is the broad analytical potential of bioluminescent proteins. This Special Issue is devoted to experimental and theoretical studies on functioning mechanisms of bioluminescent proteins from various organisms, the proteins involved bioluminescence, novel assays with the use of these and applications of these proteins, proteins experimental biology and medicine.













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### **Editor-in-Chief**

#### Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

## Message from the Editor-in-Chief

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