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### **Recent Advances in Bioluminescence**

Guest Editor:

#### Dr. Liudmila P. Burakova

1. Photobiology Laboratory, Institute of Biophysics SB RAS, Federal Research Center "Krasnoyarsk Science Center SB RAS", Krasnoyarsk, Russia 2. Institute of Fundamental Biology and Biotechnology, Siberian Federal University, Krasnoyarsk 660000, Russia

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closed (30 September 2023)

# Message from the Guest Editor

Dear Colleagues,

Bioluminescence is a widespread phenomenon in nature, especially in the depths of the ocean. Representatives of luminous organisms are found among bacteria, fungi, protozoa, coelenterates, worms, molluscs, insects, and fish. Bioluminescence is a special case of a chemiluminescent reaction in which the substrate, luciferin, is oxidized, catalyzed by a specific enzyme, luciferase. Luciferins and luciferases of different organisms are different compounds and their similarity is often only functional. The Special Issue "Recent Advances in Bioluminescence" will be devoted to the fundamental and applied problems of bioluminescence.

Potential topics include, but are not limited to:

Study of molecular mechanisms of functioning of bioluminescent systems;

Synthesis and application of luciferin analogues;

Creation of analytical tools based on bioluminescent and fluorescent proteins;

Search for new bioluminescent organisms;

Modification of known bioluminescent proteins and substrates;

Creation of artificial bioluminescent proteins with desired properties.













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### Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona Institute of Science and Technology, 08028 Barcelona, Spain

## **Message from the Editor-in-Chief**

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