

Bioluminescence

Chemical Principles and Methods

Third Edition

Editors

Osamu Shimomura
Ilia Yampolsky



World Scientific

Bioluminescence Chemical Principles And Methods

G Thomas



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Bioluminescence: Chemical Principles And Methods (Revised Edition) Osamu Shimomura, 2012-03-27 This book is an authoritative monograph on the recent progresses in the chemistry of bioluminescence It provides a comprehensive overview of the past and the latest developments in understanding the biochemical mechanisms of some 35 different types of luminous organisms together with information helpful to students and researchers in an Appendix It is the first and only book that provides chemical information on all currently known bioluminescence systems Dr Shimomura is the leading practitioner in the field for the past half century and is best known for his discovery of the jellyfish photoprotein aequorin and the green fluorescent protein This book is the bible of bioluminescence and is a must read not only for the students who study bioluminescence but also for those who work in various aspects relating to bioluminescence This book will be an important source of chemical knowledge on bioluminescence for a long period of time in future Fully revised since its publication in 2006 it now incorporates the most recent advances in the subject area A new section on Green Fluorescent Protein has been added at the end of Chapter 4 It contains an extensive reference section

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Suzuki,Katsunori Ogoh,2021-12-15 This book contains seven chapters on bioluminescence techniques and organisms On the technical side the four chapters presented the fluorescent markers of proteins and nanocrystals imidazopyrazine type luciferin that emits light when bound to human serum albumin firefly luciferin that emits near infrared light and imaging technique for visualization of promoter activity in fruiting body formation of cellular slime molds Dictyostelium On the organismal side the three chapters presented recommendations for the commercial use of fireflies in urban areas from the perspective of conservation biology the origin of luciferin by predation in marine luminescent organisms and the ecology and behavior of luminescent organisms from sea to land which will be of interest to both professionals and students

Investigating Seafloors and Oceans Antony Joseph,2016-12-08 Investigating Seafloors and Oceans From Mud Volcanoes to Giant Squid offers a bottom to top tour of the world s oceans exposing the secrets hidden therein from a variety of scientific perspectives Opening with a discussion of the earth s formation hot spots ridges plate tectonics submarine trenches and cold seeps the text goes on to address such topics as the role of oceans in the origin of life tidal bore thermal effects ecosystem services marine creatures and nutraceutical and pharmaceutical resources This unique reference provides insight into a wide array of questions that researchers continue to ask about the vast study of oceans and the seafloor It is a one of a kind examination of oceans that offers important perspectives for researchers practitioners and academics in all marine related fields Includes chapters addressing various scientific disciplines offering the opportunity for readers to gain insights on diverse topics in the study of oceans Provides scientific discussion on thermo tolerant microbial life in sub seafloor hot sediments and vent fields as well as the origin of life debates and the puzzles revolving around how life originated Includes detailed information on the origin of dreaded episodes such as volcanic eruptions earthquakes tsunamis internal waves and tidal bores Contains information on the contribution of the oceans in terms of providing useful nutraceutical and pharmaceutical products

Coupled Bioluminescent Assays Michael J. Corey,2008-10-22 This book highlights the applications of coupled bioluminescence assay techniques to real world problems in drug discovery environmental and chemical analysis and biodefense It separates theoretical aspects from the applied sections in a clear and readable way Coupled Bioluminescent Assays explains the uses of CB technologies across drug discovery to analyze toxicity drug receptors and enzymes It covers applications in environmental analysis and biodefense including cytotoxicity fertilizer and explosives analysis and nerve agent and pesticide detection This is the premier reference on coupled bioluminescent assays for chemists biochemists and molecular biologists

Colour and the Optical Properties of Materials Richard J. D. Tilley,2019-12-19 The updated third edition of the only textbook on colour The revised third edition of *Colour and the Optical Properties of Materials* focuses on the ways that colour is produced both in the natural world and in a wide range of applications The expert author offers an introduction to the science underlying colour and optics and explores many of the most recent applications The text is divided into three main sections behaviour of light in homogeneous media which can largely be

explained by classical wave optics the way in which light interacts with atoms or molecules which must be explained mainly in terms of photons and the interaction of light with insulators semiconductors and metals in which the band structure notions are of primary concern The updated third edition retains the proven concepts outlined in the previous editions and contains information on the significant developments in the field with many figures redrawn and new material added The text contains new or extended sections on photonic crystals holograms flat lenses super resolution optical microscopy and modern display technologies This important book Offers and introduction to the science that underlies the everyday concept of colour Reviews the cross disciplinary subjects of physics chemistry biology and materials science to link light colour and perception Includes information on many modern applications such as the numerous different colour displays now available optical amplifiers lasers super resolution optical microscopy and lighting including LEDs and OLEDs Contains new sections on photonic crystals holograms flat lenses super resolution optical microscopy and display technologies Presents many worked examples with problems and exercises at the end of each chapter Written for students in materials science physics chemistry and the biological sciences the third edition of Colour and The Optical Properties of Materials covers the basic science of the topic and has been thoroughly updated to include recent advances in the field **Survival of the Fireflies** Georges

Didi-Huberman, 2018-09-04 Seeking out the minor lights of friendship in a time of fascism Dante once spoke in his Divine Comedy of the miniscule lights in the twenty sixth canto of the Inferno who contrary to the great lights that shined bright within the sublime circles of Paradise frailly wandered in the somber pockets of glimmering light within the darkness Pliny the Elder was once preoccupied by a type of fly named pyralis or pyrotocon which was only able to fly within fire as long as it remains in the fire it can fly when its flight takes it out too far a distance it dies Through his readings of Dante Pasolini Walter Benjamin and others Georges Didi Huberman seeks again to understand this strange minor light the signals of small beings in search of love and friendship Their flickering presence serves as a counterforce to the blinding sovereign power that Giorgio Agamben calls The Kingdom and the Glory that artificial brilliance that once surrounded dictators and today emanates from every screen In this timely reflection much needed in our time of excessive light Didi Huberman s Survival of the Fireflies offers a humble yet powerful image of individual hope and desire the firefly image Quantum Biochemistry

Chérif F. Matta, 2010-01-14 Divided into five major parts the two volumes of this ready reference cover the tailoring of theoretical methods for biochemical computations as well as the many kinds of biomolecules reaction and transition state elucidation conformational flexibility determination and drug design Throughout the chapters gradually build up from introductory level to comprehensive reviews of the latest research and include all important compound classes such as DNA RNA enzymes vitamins and heterocyclic compounds The result is in depth and vital knowledge for both readers already working in the field as well as those entering it Includes contributions by Prof Ada Yonath Nobel Prize in Chemistry 2009 and Prof Jerome Karle Nobel Prize in Chemistry 1985

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