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Nota di contenuto	pt. I. Luciferases. Refolding of the recombinant luciferases of <i>Metridia longa</i> / Borisova V.V. ... [et al.]. The main function of HIS175, TRP179, and TYR190 residues of the obelin binding site is to stabilize the hydroperoxycoelenterazine intermediate / Eremeeva E.V. ... [et al.]. Mechanistic study on the <i>Cypridina</i> (<i>Vargula</i>) bioluminescence reaction / Hirano T. ... [et al.]. Stabilization of <i>Luciola mingrelica</i> firefly luciferase by mutation of non-conservative cysteine residues / Lomanika G.Y. ... [et al.]. Firefly luciferase arose from fatty acyl-CoA synthetase by gene duplication and gene recruitment / Oba Y. and Inouye S. Bioluminescence in click beetles (family Elateridae): Molecular phylogenetic analysis, inferred from 28S ribosomal DNA / Sagegami-Oba R., Oba Y. and Ohira H. Effect of microenvironmental changes on kinetic parameters of steady-state enzyme-induced bacterial bioluminescent reaction / Sukovataya I.E., Tyulkova N.A. and Kaykova E. V. Thermal stability and absorption spectra of bacterial luciferases from <i>Photobacterium leiognathi</i> in water-organic solvents / Sukovataya I.E.,

Tyulkova N.A. and Kaykova E.V. Characterization of a fish symbiont of *Photobacterium phosphoreum* with altered spectral properties / Whitaker S. ... [et al.] -- pt. 2. Instrumentation. Luminometers for industrial applications of rapid microbiology / Berthold F. ... [et al.]. Application of a luminescence microscope with novel optical system for detection of the gene expression pattern of individual cells / Hatta-Ohashi Y. ... [et al.] -- Novel tools for quantification of lumin / Hickey P.C. ... [et al.]. Luminescence microscope for reporter assay of single live cells / Suzuki H. ... [et al.] -- pt. 3. Assays. Elevation of choline concentration in cardiac troponin-I positive human plasma / Adamczyk M., Brashear R.J. and Mattingly P.G. High throughput detection of hydrogen peroxide: Validation of homogeneous chemiluminescent assays for choline in human plasma and whole blood / Adamczyk M. ... [et al.]. Development of bioluminescent pyrophosphate assay using pyruvate phosphate dikinase and its application to SNPs analysis. Arakawa H. ... [et al.]. Bioluminescent method for detection of proteinase activity in UHT milk / Brovko L.Y. ... [et al.]. Detection and control of *Salmonella typhimurium* growth using specific bacteriophage / Brovko L.Y. ... [et al.]. Improved sensitivity method for rapid hygiene monitoring using ATP bioluminescence / Driscoll M., Ramsay C. and Watkin J. Determination of antioxidant capacity and reactivity using hemincatalyzed luminol chemiluminescence / Eckert C.R. ... [et al.]. Applications of adenylate kinase detection using bioluminescence / Foote N., Green M. and Gregory S. Standardization of bioluminescent raw milk quality assay using Lumtek test-systems / Frundzhyan V.G. ... [et al.]. BART - Bioluminescent alternative to real-time PCR / Gandelman O. ... [et al.]. Advancing the development of dual-luciferase assays / Hawkins E.M. ... [et al.]. Simultaneous bioluminescent immunoassay using aequorin labeled Fab fragment and biotinylated firefly luciferase / Ito K. ... [et al.]. Designing enhanced thermostable luciferase for proteolytic assay / Jathoul A.P. ... [et al.]. Biosensors for the non-invasive evaluation of bacterial quorum sensing in GI disorders / Kumari A. ... [et al.]. Improved Ca²⁺-activated photoproteins for HTS applications / Mastroianni N., Flak T. and Corazza S. Development of a multiplexed bioluminescent cell-based assay with the luc gene from *Luciola italica* for high throughput screening of cholesterol-lowering drugs / Micheline E. ... [et al.]. Novel BET-based biosensors with a new bioluminescent donor, *Gaussia* luciferase, for estrogen receptor ligand / Micheli E. ... [et al.]. The use of lux genes for monitoring uptake of *Pseudomonas aeruginosa* by respiratory epithelial cells / Robinson G.M. ... [et al.]. Bioluminescence characteristics of an Obelin mutant in varying solvent conditions / Rowe L. ... [et al.]. A simple chemiluminescence flow injection analysis for the determination of sulphide in aqueous samples / Satiénperakul S., Liawruangrath S. and Cardwell T.J. Using recombinant antigens for the detection of antibodies to *Trypanosoma cruzi* on a fully automated chemiluminescence analyzer / Shah D. ... [et al.]. / Quantitative bioluminescent RNA assay / Sun Y., Jacobson K.B. and Golovlev V. A novel multi-channel chemiluminescence assay to detect HIV antibodies as a more specific supplemental test / Sun X. and Yang X. Time-resolved measurement of firefly bioluminescence using photolysis of caged-ATP / Tanaka M., Igarashi R. and Wada N. Red-chemiluminescent probes for detecting superoxide anions / Teranishi K. Aequorin bioluminescence dissected by random mutagenesis / Tricoire L., Tsuzuki K. and Lambolez B. Influence of inorganic sulfur compounds on bioluminescent system NAD(P)H: FMN-oxidoreductase-luciferase / Vetrova E.V. and Prokhorova E.V. Development of the *Cypridina* bioluminescent system for high throughput screening assays

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Sommario/riassunto

In life science, bioluminescence and chemiluminescence have become a vital tool for laboratory analysis and biomedical imaging both in academic research and industrial product development. The latest advances in this exciting field, from fundamental research to cutting-edge applications, are explored in this most recent volume of the biannual symposium series, the Proceedings of the 14th International Symposium on Bioluminescence and Chemiluminescence. The volume highlights advances in fundamental knowledge about the origins and mechanisms of naturally occurring luminescence, including lucifera
