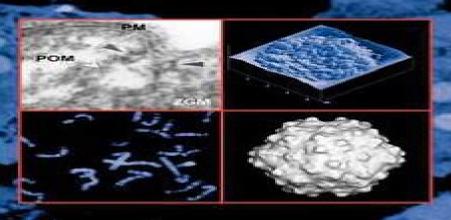
Cell Imaging Techniques

Methods and Protocols

Edited by

Douglas J. Taatjes Brooke T. Mossman



Cell Imaging Techniques Methods In Molecular Biology

Douglas J. Taatjes, Brooke T. Mossman

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of protocols to be used with a variety of imaging based equipment likely available in a core imaging facility Live Cell **Imaging** Sung-Bae Kim, 2021-05-29 This detailed book highlights recent advances in molecular imaging techniques and protocols designed to be immediately applicable in global bio laboratories. The chapters are categorized into seven major groups according to the reporter materials such as imaging with passive optical readouts activatable bioluminescent probes functional substrates and luciferases organic fluorescent probes BRET probes FRET probes as well as with advanced instrumentation Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and practical Live Cell Imaging Methods and Protocols aims to direct and inspire researchers into creating smarter next generation imaging techniques that are truly quantitative highly sensitive and readily comprehended in the effort to engender deeper understanding of biological systems and break new ground in the research fields of life science Live-Cell RNA Imaging Shin-ichi Sato, 2024-11-13 This detailed volume presents a comprehensive guide to live cell RNA imaging techniques and methodologies that have been successfully used to study the dynamics or function of various RNAs in cells The topics covered encompass techniques including the detection of aptamer tagged mRNA molecules utilizing fluorogenic proteins monitoring endogenous mRNA via a split protein based probe within neuronal cells sensitive detection of low abundance RNAs employing catalytic hairpin assembly circuits monitoring RNA dynamics using the MS2 system within plant cells detection of miRNA utilizing DNA MOF probes and identification of RNA G quadruplex structures or nucleolar RNA through fluorescent probes among other advanced techniques Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and practical Live Cell RNA Imaging Methods and Protocols provides researchers with a diverse toolkit for investigating RNA dynamics and function within live cells thereby contributing to advancements in our understanding of cellular processes at the molecular level **Understanding Light Microscopy** Jeremy Sanderson, 2019-03-04 Introduces readers to the enlightening world of the modern light microscope There have been rapid advances in science and technology over the last decade and the light microscope together with the information that it gives about the image has changed too Yet the fundamental principles of setting up and using a microscope rests upon unchanging physical principles that have been understood for years This informative practical full colour guide fills the gap between specialised edited texts on detailed research topics and introductory books which concentrate on an optical approach to the light microscope It also provides comprehensive coverage of confocal microscopy which has revolutionised light microscopy over the last few decades Written to help the reader understand set up and use the often very expensive and complex modern research light microscope properly Understanding Light Microscopy keeps mathematical formulae to a minimum containing

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Sanchez-Serrano, 2008-02-04. For several decades Arabidopsis thaliana has been the organism of choice in the laboratories of many plant geneticists physiologists developmental biologists and biochemists around the world During this time a huge.

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