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Quantum Dots

Applications in Biology

Edited by

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Quantum Dots: Applications in Biology is the first book published on the subject, and it emphasizes a variety of methods that were developed using commercially available materials. Each of the protocols in this authoritative, cutting-edge text have been prepared and written by the developers of novel applications for quantum dots, many of whom have published the initial reports on the subject in major journals. This comprehensive volume outlines nearly all currently developed applications of quantum dots in precise detail.

The protocols will be of tremendous interest to experimental biologists, as they examine current and potential applications of quantum dot labeling in the field. Cutting-edge examples of potential biological applications for quantum dots include cancer detection, live cell tracking, and pathology. This volume provides an excellent reference for protocols that can be utilized repeatedly to yield reliable performance from quantum dot-enabled applications.

FEATURES

- The first resource published on the topic
- Cutting-edge protocols for imaging of fixed cells and tissues
- Groundbreaking methods for imaging of live cells and animals
- New directions in the application of flow cytometry
- Innovative biochemical applications for quantum dots

CONTENTS

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