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diagnostics, DNA sequencing, forensics, genetic analysis, and biotechnology applications. It is a valuable analytical tool for both quantitative and qualitative analysis.

2. PRINCIPLE OF FLUORESCENCE SPECTROSCOPY

Fluorescence and phosphorescence are photon emission processes that occur during molecular relaxation from electronic excited states.

Applications of Fluorescence Spectroscopy

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Trends in Biotechnology, VoL 3, No. 10,

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1985 Fluorescence techniques in biotechnology Herbert Schneckenburger, Benno W. Reuter and Siegfried M. Schoberth The high specificity and sensitivity of fluorescence techniques have made them important analytical tools in medicine and biotechnology.

Fluorescence techniques in biotechnology - ScienceDirect

Fluorescence Applications in Biotechnology and Life Sciences is the first reference in this important subject area to focus on fundamental concepts and applications of fluorescence in biotechnology and the life sciences. It emphasizes the principles and focuses on the "here and now," rather than research that might become available in the future.

Wiley-VCH - Fluorescence Applications in Biotechnology and

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Time-gated (TG) fluorescence imaging (TGFI) has attracted increasing attention

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within the biological imaging community, especially during the past decade. With rapid development of light sources, image devices, and a variety of approaches for TG implementation, TGFI has demonstrated numerous biological applications ranging from molecules to tissues.

Time-gated fluorescence imaging: Advances in technology ...

Microalgal biotechnology has gained increasing attention over the last few decades as a next-generation driver for obtaining food, feed and biofuels and to carry out bioremediation of effluents and CO₂ mitigation. Flow cytometry (FC) and fluorescence-activated cell sorting (FACS) have recently acquired outstanding importance in the development of high-throughput methodologies.

Fluorescence activated cell-sorting principles and ...

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9780470083703: Fluorescence Applications in Biotechnology ...

Fluorescence microscopy is a type of light microscope that works on the principle of fluorescence. A substance is said to be fluorescent when it absorbs the energy of invisible shorter wavelength radiation (such as UV light) and emits longer wavelength radiation of visible light (such as green or red light).

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