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living organism. Images can be produced from a variety of methods including: microscopy, imaging probes, and spectroscopy.

Fluorescence itself, is a form of luminescence that results from matter emitting light of a certain wavelength after absorbing electromagnetic radiation. Molecules that re-emit light upon absorption of light are called fluorophores. Fluorescence ima

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Fluorescence imaging -  
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Fluorescence Spectroscopy.  
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the Magazzini del Cotone,  
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Fluorescence spectroscopy  
and microscopy , combined  
with the ever-expanding  
palette of genetically  
encoded fluorescent proteins  
(3-5) or exogenous dyes or  
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is currently the most  
popular imaging contrast  
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Fluorescence Spectroscopy, Imaging and Probes: New Tools ...

Over the past few years, time-resolved ("lifetime")

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Fluorescence spectroscopy and imaging (see “How they work,” bottom of page) have moved steadily toward fulfilling their promise of clinical benefit. 1 Time-resolved fluorescence has recently been studied for characterization of atherosclerotic plaques 2 and carotid arteries, 3 in vivo detection of radiation-induced necrotic changes to the brain, 4 and diagnosis of rheumatoid arthritis 5 and oral cancer 6 –all in real time and ...

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Imaging/Spectroscopy:

Clinical application of ...

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The probe exhibits high sensitivity and specificity for  $H_2O_2$ . • Theoretical calculation study better explains the changes in fluorescence spectral signals before and after the reaction between HAA and  $H_2O_2$ . • The probe can be successfully applied to the imaging of exogenous and endogenous  $H_2O_2$  in living cells and can detect  $H_2O_2$  in human serum.

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A novel colorimetric and near-infrared fluorescence probe ...  
scopic system comprising a camera for white light/fluorescence imaging,



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a handheld fibreoptic probe, a laser and spectrograph for Raman spectroscopy, an excitation light source, collection filter optics for fluorescence imaging, and a computer with integrated software for clinical control. In the probe-tracking schema we developed, initial

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Fluorescence-Guided Raman Spectroscopy for Tumour Margin ...

These probes are often used with fluorescence correlation spectroscopy and single molecule imaging [19, 20]. The third group of dyes, commonly referred to

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as environment-sensitive dyes, respond spectroscopically to local environment properties like polarity, hydration, viscosity and pH while also being able to distinguish between ordered and disordered membrane phases [21, 22].

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## 5.4: Lipid Probes - Physics LibreTexts

Time-resolved ("lifetime") fluorescence spectroscopy and imaging provide label-free optical molecular contrast of diseased tissues and outperform steady-state fluorescence. Now proven for in vivo applications,

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including noninvasive diagnostics and endoscopy, fluorescence lifetime is promising for clinical work—but depends on advancement of new, more affordable optics and photonics components.

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