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# Hypoxia Sensitive Fluorescent Probes For In Vivo Real Time

**development of azobased fluorescent probes to detect ...** - on the other hand, reaction-based fluorescent probes can be powerful tools to elucidate processes in living systems,[6] and several hypoxia-sensing fluorescent probes have been developed to detect hypoxia in living cells.[7] most of them contain a nitroaryl or a quinone group as the hypoxia-sensitive moiety. the photoswitching mechanism of these **luminescent probe based techniques for hypoxia imaging** - fluorescent probes for improved detection of hypoxia for in vivo biological conditions, it is advantageous to move the development of fluorescent probes to the long-wavelength region (i.e., red and near-infrared). near-infrared (nir) optical methods provide a feasible opportunity for in vivo imaging due to many advantages **hypoxia-selective, enzymatic conversion of 6 ...** - transient regions of hypoxia may play a role in regulating cell differentiation and organ development during embryogenesis.1,3,4,10 with growing interest in hypoxia comes an increased need for new tools that researchers can use to detect hypoxia in biological systems. fluorescent probes for the direct imaging of **818908 file000001 9223457 - pubss** - hypoxia-sensitive fluorescent probes for in vivo real-time fluorescence imaging of acute ischemia kazuki kiyose t, ... **azobenzene-caged sulforhodamine dyes: a novel class of ...** - new sulforhodamine-based fluorescent 'turn-on' probes have been developed for the direct imaging of cellular hypoxia. rapid access to this novel class of water-soluble 'azobenzene-caged' fluorophores was made possible through an easily-implementable azo-coupling reaction between a fluorescent **fluorescent oxygen sensitive microbead incorporation for ...** - fluorescent oxygen sensitive microbead incorporation for measuring oxygen tension in cell aggregates dennis lambrechtsa,c, maarten roeffaersb, greet kerckhofsac, scott j. robertsc, johan hofkensd, tom van de puttee, hans van oosterwyckc,f, jan schrootena,c,\* a department of metallurgy and materials engineering, ku leuven, kasteelpark arenberg 44, box 2450, 3001 leuven, belgium **engineering of a near-infrared fluorescent probe for real ...** - environments. however, previously reported fluorescent probes have only been able to image either hypoxia or mitophagy.10,12 the use of a single nir fluorescent probe for the real-time monitoring of hypoxia and the corresponding levels of the resulting mitophagy simultaneously, as well as the differentia- **ad award number: w81xwh-10-1-0414 hypoxia-sensitive ...** - entrapped a hydrophilic fluorescent dye, calcein, and release the dye upon a chemical reduction by sodium dithionite.[1e] bio-imaging probes based on bioreductive cleavage of trimethyl-lock quinone by reductive enzymes have also been reported for potential application for tumor imaging based on redox changes occurring in tumor hypoxia.[2]

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