

REQUEST FOR APPLICATIONS

Synthesis of novel biologically useful optical sensors

Detection and quantification of *in vivo* cellular processes requires sensitive detectors. While many chemical (e.g. fluorescein, etc.) and biological (e.g. GFP) fluorophores have been developed over the last several years, additional fluorophores and other optical sensors are needed. Ideally these new sensors would be more sensitive, have a longer half-life, be less biologically toxic and would be usable, simultaneously, with multiple other optical sensors. Applications are encouraged for novel chemical or biological fluorophore development as well as other types of optical sensors.

Awardees will receive up to \$120,000 over two years in research funding to be spent on development of optical sensors and their biological application. Applicants from any PENN-associated school are encouraged to apply. Applications should consist of an Application Submission Form, a research proposal (≤ 5 pages), investigators' biosketches (NIH-format) and a detailed budget request (1-2 pages). The Application Submission Form and a sample budget request page can be downloaded from the PGFI website. The complete application packet should be sent to Joyce Donnelly (joyced@upenn.edu) in electronic format by November 1, 2008.