CMC Biosensors Initiative
Imperiali Laboratory
Information contact: Barbara Imperiali, imper@MIT.EDU ;

Chelation - enhanced fluorophore Chemistry

The consortium web site details the approaches being used to develop chelation-enhanced fluorophores for cell migration research
http://www.cellmigration.org/resource/biosensors/biosen_approaches.shtml#chelation

Provided here are details of the related publications and the supplemental information that is available regarding the chemistry involved in producing these probes.

- Shults & Imperiali, 2003 - Details on experimental procedures for peptide synthesis and enzyme assays, characterization of peptides and reaction products, fluorescent spectral comparison of all substrate and product peptide pairs, correlation of product formation with fluorescent data, calculations for obtaining kinetic parameters for fluorescence data, Hanes plots and metal competition data are available through the American Chemical Society* using journal reference JA0380502.
- Shults et al., 2003 - Details on synthetic procedures and characterization of Sox and peptides, 1H NMR spectra for 2,3 Sox and Fmox-Sox0OH and experimental details for all fluorescence experiments are available through the American Chemical Society* using journal reference JA0355980.
- Vazquez et al., 2005 - General procedures peptide synthesis, experimental procedures and MNR data are available through the American Chemical Society* using journal reference JA0449168.
- Schults et al., 2005 - Supporting information, including supplementary figures, and methodology are available at http://www.nature.com/nmeth/index.html

* Electronic supporting information files for articles appearing in ACS journals are available free of charge and without subscription via the Internet at http://pubs.acs.org. All files are copyrighted by the American Chemical Society but may be downloaded for personal use.