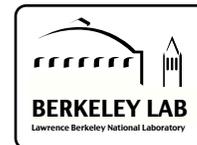


THE JOHN LAWRENCE SEMINARS



"BIOLOGICAL COORDINATION OF F-ELEMENTS: FROM NUCLEAR DECONTAMINATION TO TARGETED RADIOTHERAPY"

REBECCA ABERGEL, PH.D.
BERKELEY LAB

Recent events have called attention to the persistent possibilities of environmental and human contamination with radioisotopes such as lanthanide fission products and actinides. However, limited research has been directed to the characterization of f-element coordination chemistry in environmentally and biologically relevant species. A combination of biochemical and spectroscopic approaches on both *in vitro* and *in vivo* systems is currently used to study the selective binding and recognition of lanthanides and actinides by natural and synthetic chelating ligands. Studying the biokinetics, photophysics, solution thermodynamics, and structural features of f-element complexes has important implications for the development of new decontamination agents, but also for the design of future targeted imaging and radio-therapeutic constructs.

TUES., NOV. 24TH
4:00 P.M.

717 POTTER STREET
ROOM 141
BERKELEY LAB

HOST:
GARY KARPEN

Schedule of Seminars: <http://johnlawrenceseminars.lbl.gov>
Non-LBNL attendees: please RSVP to FGuagliardo@lbl.gov or 510-486-6490