Faculty Name: Cynthia McMurray, PhD

Email: ctmcmurray@lbl.gov

Phone Number: 510-520-9474 or 510-486-6526

Department/Organization Affiliation: Lawrence Berkeley National Laboratory, MBIB (Molecular Biophysics and bio-imaging)

Preferred Method of Contact: email

Project Name(s): developing a new chemical method to tag complexes at single sites in the genome.

General Topic (Keywords): hydroxylradical tagging with biotin/collection/mass spectrometry identification

Project Description(s): A major barrier in current biochemistry and genome science is out inability to understand dynamic protein complexes that form at single sites in the genome. These often distinguish how cells use specific complex in distinct ways and how they assemble dynamically. The projects is developing are chemical tagging system with the capability to capture and identify dynamic complexes a single targeted sites of interest

Desired Skills or Experience: some basic lab experience—necessary: know how to make up solution. Desirable but not necessary: gel electrophoresis is a plus or any additional experience. You will be closely supervised and trained so interest is the major requirement.

Time Commitment: I work with all student based on their schedules and make allowances for exams during the year. However, in order to get anything out of the training you must be willing to invest some time. 10 hour/week minimum, more if you can.

The project is of serious interest in the lab and novel technology. Although not a guarantee, a significant contribution may lead to publication if the project goes well.
Preferred Starting Date: ASAP