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SECTION CHIEF, MOLECULAR IMAGING AND  
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DEPARTMENT OF RADIOLOGY AND BIOMEDICAL IMAGING

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We are seeking to appoint a Postdoctoral Research Associate with a background in imaging science, chemical biology, cancer biology, or chemistry to undertake research in novel molecular imaging and theranostic probe development. The work will be undertaken in the laboratory of Robert Flavell at the state-of-the-art China Basin and Mission Bay campuses of UCSF. The focus of the research is on the development of novel molecular imaging probes, including magnetic resonance imaging probes using hyperpolarized  $^{13}\text{C}$  imaging, and theranostic probes for PET imaging and radionuclide therapy.

Major projects include:

**The development of theranostic agents for imaging and treatment of cancer.** We have active projects on the development of antibody based-theranostic agents for imaging and treatment of prostate cancer, multiple myeloma, and other diseases. Other projects include the development of novel theranostic nanomedicines, and treatment with boron neutron capture therapy. Projects span from initial synthesis, to preclinical validation, to translational studies.

**Development of hyperpolarized  $^{13}\text{C}$  MRI and radiopharmaceutical probes for studying the tumor microenvironment.** We are developing novel probes to study aspects of the tumor microenvironment including alterations in interstitial pH, redox and metal homeostasis. In particular, prostate cancer undergoes metabolic and phenotypic changes as it transitions from low to high grade disease, and imaging probes targeted against these metabolic changes can be used to selectively detect aggressive, life threatening disease.

For further information, please see: <https://radiology.ucsf.edu/research/labs/flavell>.

### Job Requirements:

Applicants should hold a Ph.D. or M.D., or be near completion of their degree, in a relevant subject area. The applicant should have relevant research experience in imaging science, cancer biology, chemical biology, or chemistry. The applicant should also be highly motivated with exceptional communications skills and the ability to work with a dynamic team. Preferred skills would include background in organic chemistry, magnetic resonance imaging, radiochemistry, or molecular imaging. This full-time post is funded by the National Institutes of Health and Department of Defense.

### How to Apply:

Interested applicants should submit 1) a curriculum vitae, 2) a brief statement of research interests and 3) a list of three references. Please send inquiries to Robert Flavell (Robert.flavell@ucsf.edu).