

POST-DOCTORAL POSITIONS IN OPTICAL INSTRUMENTATION, CELL APPLICATIONS AND ORGANIC CHEMISTRY

Positions available in the areas of cellular biophysics, organic synthesis, and small animal surgery/physiology. Specific projects for new fellows/visiting scientists include:

I. Novel biological applications of fluorescence correlation spectroscopy (FCS), femtosecond lasers, and photobleaching recovery. Scientists sought with strong background in instrument and software development for optical systems. Interest in cellular applications. New biological projects include distance/dynamics measurements of the erythrocyte spectrin skeleton, solute diffusion in subcellular organelles, and protein-protein interactions in living cells.

II. High throughput screening to identify drugs in CF/aquaporin research. Our lab has developed novel assays for high-throughput screening of combinatorial compound libraries for identification of water channel inhibitors and drugs to correct CFTR cellular processing in cystic fibrosis. Scientists sought with skills and interest in automated cell-based screening and drug discovery.

III. Synthesis and characterization of fluorescent indicators for cell studies. Scientists sought with extensive experience in organic synthesis and spectroscopic characterization.

IV. Phenotype analysis of aquaporin transgenic mouse models. Our lab has function as well as multiple-knockout mice. Scientists sought with skills in mouse surgery and physiological measurements to study gastrointestinal, neurosurgical and eye phenotypes, and role of aquaporins in tumor angiogenesis and tissue growth/repair.

See website for additional information: www.ucsf.edu/verklab

Reply to:

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