

PostDoc/Staff at Chan Zuckerberg Biohub: Zebrafish Transgenics and Light-sheet Microscopy for Cell Atlas

Chan Zuckerberg Biohub —

Biologist - Zebrafish Transgenics and Light-sheet Microscopy for Cell Atlas

San Francisco, California, United States

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Lab Vision

The Discovery Machine Lab led by Loic Royer at the Chan Zuckerberg Biohub will design and build lightsheet microscopy based 'discovery machines' that will not only acquire image data, but also perform online processing, instant 3D visualization, adaptive imaging, and automated photo-manipulation. These integrated instruments bring together state of the art optics, robotics, machine learning, and image analysis with the aim of building comprehensive atlases of development and modeling complex cellular choreographies.

Opportunity

We are looking for a Biologist with genetic engineering and Zebrafish experience that will help develop Cell-Atlas related biological projects in a collaborative environment, design experiments using state-of-the-art light-sheet microscopy, and conceive novel labelling strategies for live fluorescence imaging.

What we provide

- The resources to conceive disruptive technology and obtain ground-breaking results to advance knowledge of cell biology.
- Collaborative environment with access to talent and resources of the Biohub platforms (Sequencing, Bioengineering, Genome Editing, Data Sciences, and Advanced Imaging).
- Access to collaborators, Resources and facilities at Stanford, Berkeley and UCSF
- Competitive compensation and benefits commensurate with experience.
- On site free snacks and beverages :-)

Responsibilities

- Genetic engineering of novel fluorescence labelling strategies
- Transgenesis in and maintenance of model organisms (preferably fish)
- Fluorescent live imaging with the Lab's custom built microscopes
- Collaborate with Lab's microscope designer and builder on imaging experiments
- Collaborate with CZ Biohub's Genome Engineering Platform
- Collaborate with the Biohub's DataScience Platform on image analysis

REQUIREMENTS

Experience in live fluorescence microscopy and image analysis is highly desired. The candidate should be willing to learn new skills and knowledge, think creatively and show enthusiasm while engaging in risky but potentially rewarding projects.

Mandatory:

- Genetic engineering toolbox: molecular cloning, transfection, cloning, transfection, CRISPR-Cas, TALENs, ZFNs, Transposases, Recombinases... Hands on experience with zebrafish knock-ins.
- Experimental prowess in cell culture and construct engineering
- Experience in fluorescence imaging (Confocal, Light-sheet)
- Multi-color labelling strategies Live Zebrafish immobilisation
- for long term imaging

Desired:

- Proficiency in Python for image processing and data analysis
- Synthetic Biology
- Knowledge in zebrafish immunology, development and/or regeneration

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