

Postdoctoral Fellow Position in Single Cell Cancer Biology

A Postdoctoral Fellow position is immediately available for a highly motivated upcoming or recent Ph.D. or M.D./Ph.D. graduate in Quantitative Biology, Biomedical Engineering, Chemical Engineering, Molecular Biology or related biological oriented field in the lab of Dr. Gregor Neuert, NIH Director's New Innovator Awardee 2014, at Vanderbilt University, School of Medicine in Nashville, Tennessee.

The Neuert lab is part of the NCI - Pre-Cancer Atlas Consortium where we aim to apply our novel single molecule RNA-FISH assay to distinguish between individual normal and pre-cancerous cells. Our research methods include a combination of single-molecule microscopy / single-cell experiments, and quantitative image processing.

As part of the Pre-Cancer Atlas Consortium and in collaboration with the Lau Lab at Vanderbilt, we are seeking a highly motivated, driven and curious applicant (recent graduate with no more than 1 year of previous postdoctoral training), ideally with a rich set of skills in molecular biology, quantitative microscopy, image processing and a strong background, proven record (first author publications) and rigorous training in one of the following areas: biomedical engineering, chemical engineering, quantitative biology, biophysics, cell biology or molecular biology.

The ideal candidate will combine his/her biology or engineering training with quantitative approaches developed in the Neuert and the Lau lab's to establish a multiplexed RNA-FISH platform in human patient samples based on our single molecule RNA-FISH expertise (van Werven Cell, 2012; Bumgarner Mol Cell 2012; Munsky Science 2012; Neuert Science 2013; Li bioRxiv 2017; Munsky PNAS 2018). The ideal candidate should have basic quantitative training including basic computer programming.

We offer training in single cell biology, quantitative biology, computer programming, complex data analysis, novel experimental design, in addition to an exciting, highly interactive, international, interdisciplinary, and well-funded research environment with strong mentoring and career development support.

Vanderbilt University School of Medicine is a top ranked medical school and is equipped with world-class cutting-edge experimental and computational core facilities. With a metro population of approximately 1.5 million people, Nashville offers high quality music, great restaurants, rapid access to outdoor activities and is centrally located within the US.

Interested applicants should send a curriculum vita, a summary of research experience and accomplishments, and contact information of 2-3 references to gregor.neuert@vanderbilt.edu. Applicants should explain briefly why they are interested in pursuing a postdoctoral position in general and why in the Neuert lab.

For more information please visit: <https://lab.vanderbilt.edu/neuert-lab/>