

Postdoctoral Fellow Position in Quantitative Single Cell Systems Biology

A Postdoctoral Fellow position is immediately available for a highly motivated upcoming or recent Ph.D. or M.D./Ph.D. graduate in Mammalian Cell Biology, Quantitative Biology, Biomedical Engineering 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 works on the leading edge in quantitative understanding of fundamental molecular mechanism of signal transduction and gene regulatory processes of coding and non-coding RNA in yeast and mammalian cells. Our research methods include a combination of single-molecule microscopy / single-cell experiments, next generation sequencing, predictive computational modeling, genetics and cell and molecular biology.

We are seeking highly motivated, driven and curious applicant (recent graduate with no more than 1 year of previous postdoctoral training), a rich set of skills in mammalian cell culture and mammalian cell biology techniques with a focus on signaling or transcription, a strong background, proven record (first author publications) and rigorous training in one of the following areas: stem cell biology, cancer biology, immunology, bioengineering, chemical engineering, biophysics, pharmacology, developmental biology, or neuroscience,.

The ideal candidate will combine his/her cell biological training with quantitative approaches from the Neuert lab to ask fundamental question related to how environmental changes over time impact cellular phenotypes, cell signaling and gene expression in single cells (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 is 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/>