

UCR - Postdoctoral Position – Malaria Gene regulation, Epigenomics and Life cycle differentiation.

THE OPPORTUNITIES: A postdoctoral position is available in the laboratory of Dr. Le Roch at the University of California, Riverside (UCR). Current research projects within the laboratory focus on malaria parasite life cycle progression, gene regulation and epigenomics. We aim to understand parasite development at the epigenetic and chromatin structure levels. We are particularly interested by developing new Genome wide methodologies to better understand the role of lncRNAs in cell differentiation and pathogenicity of malaria parasites at single cell resolution. We aim to enable high resolution measurements of epigenomics and chromatin structure at single cell level. Understanding gene regulation on the basis of “Single Cell Systems Biology” will be instrumental in our understanding and prediction of pathogenicity of malaria parasites over time and under varying condition. This new position is dedicated to NIH-funded projects focused on chromatin structure and gene regulation (Hollin et al., Trends Genet. 2021; Batugedara G., et al., Microb. Genom. 2020; Bunnik et al., PNAS 2019; Bunnik et al. Nature Communication. 2018, Lu et al.. Nucleic Acids Res. 2017 and Bunnik et al.. Genome Biology 2016).

REQUIREMENTS: The candidate will be expected to lead its own individual projects but will also be contributing to collaborative research efforts. This opportunity is available for highly motivated candidates who have recently received their Ph.D. and/or MD and have strong publication record, regardless of their specific area of expertise. Candidates with a strong track record of accomplishment in molecular biology, next generation sequencing, genomics, transcriptional regulation, epigenetics or chromatin structure, are strongly encouraged to apply. A background in parasitology is desirable but not necessary.

HOW TO APPLY: Please submit your application including a complete CV with all publications and the name of contact information for three references, a brief statement (1-2 pages) of research interests and a cover letter to karine.leroch@ucr.edu. This is a fixed-term appointment funded for one year from date of hire with an excellent possibility of reappointed for another 2 to 3 years.

Dr. Le Roch is a Professor in the Department of Molecular, Cell and Systems Biology and the Director of the Center of Infectious Disease and Vector Research. She is also an active member of the Institute for Integrative Genome Biology and the Genomics, Genetics and Bioinformatics graduate program as well as the Cell, Molecular, and Development biology graduate program.

THE LOCATION: The University of California is rapidly expanding with approximately 23,000 students and 1,100 institutional faculty. UCR is located on nearly 1,200 scenic acres in Inland Southern California and distinguished itself by more than 60 years of high-impact research. One of the most diverse, inclusive institutions within the prestigious 10 campus University of California system, UCR serves as an incubator of new knowledge, an engine of social mobility, and an economic powerhouse.

UCR ranks among the top 25 comprehensive research universities in the nation (Washington Monthly, 2017) by positively impacting the country through civic engagement, social mobility, and research. UCR was included in the (August 2018) edition of The Princeton Review’s “The Best 382 Colleges.” Shanghai Jiao Tong University (August 2017) Academic Ranking of World Universities ranked UC Riverside among the top 151 institutions. This survey bills itself as “the most trustworthy precursor of global rankings of the world’s top 500 universities.” UCR ranks among the Top 15 Public Research Universities in the nation, as identified by the 2017 Washington Monthly.

Riverside is the 59th most populous city in the United States and 12th most populous city in California. It is the birthplace of the California citrus industry and home of the famous Mission Inn, the largest Mission Revival style building in the United States. Located about 60 miles east of Los Angeles, 50 miles west of Palm spring and 80 miles north of San Diego and its beautiful beaches, it has great nearby cultural and outdoor activities (desert, Joshua National Park, mountain, and coastal destinations).