

Student Laboratory Research Assistant Opening

Location: Anschutz Medical Campus

Contact Phone: (303) 724-6085

Salary: \$11 hourly

End-time: On-going, but must have student status

Expected work hours: Part-time, approximately 15 - 20 hours/week; flexible schedule, will work around your classes

Contact E-mail: Adela.Cota-Gomez@ucdenver.edu

Start time: Immediately

Application Expires: Until filled

Description:

Part-time student laboratory research assistant position to work in the laboratory of Dr. Adela Cota-Gomez. The research focus is on understanding the effects of the HIV-Tat protein on cellular pathways that could contribute to the molecular pathogenesis of HIV-Associated Pulmonary Arterial Hypertension (HIV-PAH). Dr. Cota-Gomez will oversee the student's progress but on a daily basis, the student will report to a graduate student member of the lab, Ari Simenauer.

The student will be exposed to the following:

Working as part of a research team; reading relevant scientific literature; planning and designing laboratory experiments; interpreting experimental results; troubleshooting technical problems; integrating your specific results into the current body of knowledge; various forms of scientific written and oral communication.

Work Expectations:

The student will be expected to:

- Take all required safety and HIPAA training courses
- Set a work schedule and communicate it to the daily supervisor (Ari S.) and the head of the lab (A. Cota-Gomez)
- Follow the agreed upon schedule with minimum changes and alterations
- Arrive at work on time and prepared
- Maintain a current and complete lab notebook following the lab requirements
- Follow all instructions from the daily supervisor (Ari S.) and the head of the lab (A. Cota-Gomez)
- Adhere to all laboratory rules and regulations
- Keep accessible and open communication with the daily supervisor (Ari S.) and the head of the lab (A. Cota-Gomez) at all times

The student will be taught the following specific skills:

The following is not a comprehensive list, other skills may be added as the project progresses:

- Cell culture of primary lung endothelial and other pulmonary vascular cells
- Transfection of primary lung endothelial and other pulmonary vascular cells
- Protein, DNA and/or RNA extraction from primary lung endothelial and other pulmonary vascular cells
- Purification of recombinant Tat protein
- Plasmid purification, quantification and agarose gel electrophoretic analysis
- Protein SDS-PAGE and Immunoblotting
- Immunoprecipitation

Requirements and Qualifications:

Biology major, minimum sophomore-level, must have passed all college math courses taken with a minimum of "C" or better. Must have experience with Word, Excel, Powerpoint and other common computer software. The ideal candidate will possess the following personal characteristics: self-motivation, excellent organizational and analytical skills and the ability to work well with other team members