

Obstetrics, Gynecology, and Reproductive Sciences

Postdoc – Extracellular Vesicle/Exosome Biology

The Department of Obstetrics, Gynecology, and Reproductive Sciences (<http://obgyn.ucsd.edu/>) at the University of California, San Diego (UCSD) is committed to academic excellence and diversity within the faculty, staff, student body, and is recruiting an experienced Research Scientist for our Maternal-Fetal Medicine (MFM), Reproductive Endocrinology and Infertility (REI), Gynecologic Oncology (GynOnc), Female Pelvic Medicine and Reconstructive Surgery (FPMRS), and general Obstetrics and Gynecology (OBGYN) divisions.

We are looking for a highly motivated postdoctoral fellow interested in studying the composition and function of extracellular vesicles (EVs), particularly in the context of normal and complicated human pregnancy. The fellow will interact closely with the PI, other lab members, and members of collaborating labs, who have expertise in stem cell, molecular and placental biology, clinical obstetrics, multi-omics, and computational biology. Our laboratory is located in the Sanford Consortium for Regenerative Medicine (SCRM) building in La Jolla, which is co-occupied by labs from UCSD, Salk, and Sanford-Burnham, and state-of-the-art labs and core facilities. The candidate will be part of the vibrant stem cell community centered in the SCRM, as well as the San Diego EV Interest Group.

The project will involve development and application of cutting-edge technologies for EV fractionation and multi-omic analysis, and testing of EV function using stem cell-based models of trophoblast (placental cells) differentiation and function. The project is based on prior studies in the lab that have optimized methods for next-generation sequencing of EV RNAs, and identified candidate biomarkers for pregnancy disorders that we hypothesize have a role in placental development and function.

Experience in EV biology, stem cell biology, and genomics is preferred. Candidates with a strong background in other fields (e.g. molecular biology/biochemistry, developmental biology, and computational biology, etc.) are also welcome to apply.

Interested candidates should send their resume/CV and the names of 3 references to the PI Louise Laurent (llaurent@ucsd.edu). Stipend will follow the NIH-recommended scale.