

Research Associate Level II/III



About Us:

Hesperos, Inc. is accelerating drug discovery by providing safety and efficacy testing of chemicals and novel therapeutics for the pharmaceutical, cosmetic, and food industries using its patented, Human-on-a-Chip platform. Bringing together biologists, surface chemists, and engineers, our team is producing some of the world's most advanced organs-on-a-chip platforms. From gene expression to electrophysiology, we recreate key components of organs in an interconnected, functional system. Chemically patterned microchips enable real-time, non-invasive monitoring of organ activity where we use sophisticated measurement techniques to detect minute changes.

This breakthrough technology enables unprecedented visibility into specific disease states and how the human body will respond to treatment - something that previously required costly animal testing and human trials to determine. As a functional, interconnected, human surrogate, Hesperos' Human-on-a-Chip provides preclinical insight into the efficacy and toxicity of novel therapeutics.

About You

- You are experienced in iPSC expansion, characterization, and differentiation.
- You are a rigorous experimentalist who takes pride in your ability to execute at the bench.
- You are conscientious and pay almost obsessive attention to detail, as organized documentation is second nature.
- You are curious, love learning and are eager to take on hard problems.
- You thrive in a fast-paced environment and enjoy pushing the edge of what is possible.
- You are resourceful and like to work independently but are not shy to ask for advice.

What You'll Do

- Collaborate and communicate across a diverse interdisciplinary research team.
- Work with scientists to collect and interpret data from proprietary Hesperos' developed software and hardware for multiple drug discovery efforts.
- Ensure that all safety guidelines are followed strictly and maintain a clean and orderly environment.
- Keep detailed and organized records of experimental protocols and results.
- Establish and scale iPSC differentiation protocols into various lineages including but not limited to cardiomyocytes, skeletal muscle cells, neurons, astrocytes, and microglia.
- Characterize and perform quality control of iPSCs and iPSC-derived cells.
- Design, optimize and execute in vitro assays.
- Present findings and data analysis in research meetings.
- Work a flexible schedule, including weekends.

Basic Qualifications

- A Bachelors or Masters degree in cell biology, molecular biology, biomedical sciences or related field.
- A minimum of 2 years of independent and/or industry laboratory research experience in Stem Cell Biology, including long term cell maintenance and expansion, differentiation, and characterization.
- Ability to develop new protocols/assays and offer suggestions regarding modifications to procedures and protocols in collaboration with senior researchers.
- Hands-on experience with stem cell biology and molecular biology techniques, including but not limited to tissue culture, flow cytometry, RT-PCR, ELISA, immunocytochemistry, confocal imaging, and image analysis.
- Ability to independently execute experiments, evaluate culture progression, and perform data analysis (excel, prism etc.).
- Proficiency in common office software (typically Microsoft Word, Excel and PowerPoint).
- Strong organizational and documenting skills with keen attention to detail.
- Creativity and the ability to work with an interdisciplinary team to achieve technical and corporate milestones.
- Exceptional communication, critical thinking and problem-solving skills.

Preferred Qualifications

- Proficiency in *in vitro* cell culture of mammalian cells
- Knowledge of cardiac function, liver function or neuromuscular physiology is a plus.
- Experience with gene editing techniques (CRISPR gene editing and pooled/arrayed CRISPR screens, lentiviral transduction) is preferred.

We are an Equal Opportunity Employer with a commitment to diversity. All individuals, regardless of personal characteristics, are encouraged to apply. All qualified applicants will receive consideration for employment without regard to race, color, religion, gender, sexual orientation, gender identity, disability, or veteran status.