

Research Associate in IBRI Diabetes Center

Job Summary

A research associate position at the Indiana Biosciences Research Institute is available in the IBRI Diabetes Center. We are looking for a highly motivated researcher to join the IBRI in a recently established satellite lab for Dr. Decio Eizirik. This lab aims to clarify the mechanisms of pancreatic beta cell dysfunction and death in type 1 diabetes mellitus, with focus on cytokine signaling, endoplasmic reticulum stress, alternative splicing and other mechanisms that may contribute to beta cell death and generation of neoantigens.

The selected candidate will be energetic and team oriented, with an individual focus on culture of iPSCs and differentiation of the cells into a pancreatic beta-cell-like state for experimentation within the laboratory and support of collaborative studies. Advanced molecular and cellular biology techniques will be directed toward characterization of the cells, assay development, analysis of gene expression, and evaluation of pharmacological tools. A strong understanding of beta cell biology and/or cellular and molecular biology is important. The selected candidate will be motivated and 1) participate in generation and maintenance of cell cultures, 2) perform experiments with support from Dr Eizirik and members of the lab and 3) maintain the general operations of the lab.

Responsibilities and Duties

Primary responsibilities include:

- Develop and conduct state of the art scientific experiments working with supervision and independently as projects develop including:
 - Isolate/culture/differentiate iPSCs into pre-beta cells and other cell types
 - Culture clonal beta cell lines and rodent and human pancreatic islets
 - Develop and implement cell-based functional and viability assays for evaluation of beta cell responses to stress
 - Characterize gene and protein expression in stressed and physiological beta cells
- Accurately document and assist in preparation of data for publication, presentations and grant funding applications
- Work with the team to maintain the supplies, equipment, and institutional requirements for safety and lab operations

Qualifications and Skills

Specific skills and qualifications for the position include:

- BS or MA/MS in Biology, Biochemistry or a related field is required
- Must possess basic experience in general biological laboratory work (protein, DNA/RNA, and cell-based techniques)
- Minimum 3-5 years of experience in a research lab
- Experience isolating and analyzing RNA
- Experience working with mammalian cell culture
- Experience in pharmacology, immunology, or inflammation is a plus
- Experience with flow cytometry is a plus

Interested individuals should apply at <https://www.indianabiosciences.org/careers/> and are encouraged to provide a brief letter stating your accomplishments and interest in the lab's research, curriculum vitae, and a list of three references.

Compensation

Competitive salary and comprehensive benefits offered, commensurate with experience.

The Organization

The Indiana Biosciences Research Institute (IBRI) is the first industry-inspired applied research institute focused on the discovery and development of innovative solutions to address major health concerns. Our initial focus areas include diabetes, cardio-metabolic disease, and poor nutrition. IBRI is structured as an independent, non-profit organization strategically positioned in Indianapolis: the center of Indiana's vibrant life sciences network of innovators including corporations, academics, and foundations.

IBRI is building an organization of premier entrepreneurial researchers and innovators. We are motivated to create discoveries that transform into solutions that positively impact people's lives. Our mission of "Discovery with Purpose" prioritizes recruiting exceptional talent, building a highly-collaborative culture, and establishing a diverse portfolio of projects and programs supported by industry, government, and philanthropic sources.