

Postdoctoral Fellow in IBRI Diabetes Center

Job Summary

A postdoctoral fellow 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 will aim to clarify the mechanisms of pancreatic beta cell dysfunction and death in type 1 diabetes mellitus, with focus on endoplasmic reticulum stress, alternative splicing and other mechanisms that may contribute to beta cell death and generation of neoantigens.

The selected candidate will participate in a team working with primary human and rodent islets, animal models of diabetes and human beta cell lines, and advanced molecular biology techniques. A strong understanding of beta cell biology and/or molecular biology (with focus on alternative splicing) is important. The selected candidate will be motivated and take initiative in proposing and performing experiments, with support by Dr Eizirik and a Staff Scientist in the lab.

Responsibilities and Duties

Primary responsibilities include:

- Develop and conduct state of the art scientific experiments with human and rodent islets and cell lines, and animal models of the disease, initially with supervision and then progressively independent work, including:
 - Cell isolation/culture
 - Develop cell-based functional and viability assays for evaluating beta cell responses to stress
 - Characterize gene and protein expression in stressed and physiological beta cells
 - Maintain specific transgenic mouse models and conduct required experiments
- Accurately document and publish research findings
- Actively support applications for grants and sponsored research funding proposals

Qualifications and Skills

Specific skills and qualifications for the position include:

- PhD in Biology, Biochemistry or a related field is required
- Relevant experience in molecular biology is required
- Strong skills in beta cell isolation/ culture is a plus
- Experience with flow cytometry is a plus
- Experience with *in vivo* animal models, including advanced transgenic models, is a plus

Interested individuals 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

NIH scale plus benefits

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.