

Postdoctoral Fellow position at Zhang Lab/IBRI Diabetes Center of Excellence

We are the Indiana Biosciences Research Institute (IBRI). We are a leading translational research institute that advances academic and industry science through collaboration to improve patient health outcomes. Building your career at the IBRI in Indianapolis' 16 Tech Innovation District, means being part of a team of renowned scientists, creative thinkers and innovative leaders.

Today's research is being driven by significant advances in our abilities to study complex disease processes and propose new ways to improve patients' lives. To reflect the evolving nature of life sciences research and encourage synergies through collaboration, we're enhancing our integrated capabilities, adding depth to how we approach patient-informed translational science and pursuing four foundational areas of scientific focus. These four areas will provide us the core talent and capability to pursue translational science in this new patient-centric framework:

- **Disease, Systems, Pathways** – We're working to better understand diabetes and identify new ways to combat the disease. We're applying this learning to other diseases that share common systems and pathways.
- **Molecular Innovation** – We're developing new capabilities for molecular design and drug discovery to investigate disease processes and pursue new therapeutic approaches.
- **Integrated Data Sciences** – We're pursuing advanced data sciences to create novel end-user inspired solutions that address complex analysis, simulation and prediction across the translational sciences.
- **Enabling Technologies** – We're building a rich platform of enabling technologies that give our scientists, partners and collaborators access to the best tools to solve complex scientific problems.

The IBRI's vision is to build a world-class organization of researchers, innovators and business professionals that catalyze activities across the Indiana (and beyond) life sciences community. To achieve that vision, we look for curious and collaborative team members who are energized by innovation, guided by integrity and inspired by diversity.

The Opportunity:

The IBRI is seeking a **Postdoctoral Researcher** at the IBRI Diabetes Center in the recently established laboratory of Dr. Li Zhang. The Zhang Lab investigates the pathogenesis and immune therapies for type 1 diabetes, with a focus on the disease-related antigen specific antibody therapies and cellular therapies to postpone or reverse the progression of diabetes.

The selected candidate will participate in a team working with rodent and human studies, testing functions of proteins and cells using cell lines, primary cells/organs in lab culture system and mouse strains. The individual will work with Dr. Zhang, other team members and collaborators, receive necessary trainings, analyze data and prepare reports. Self-motivated applicants with experience in cell culture and mouse models are highly encouraged to apply.

Responsibilities:

- Perform project to test a chimeric-antigen-receptor redirected T cell (CAR-T) therapy with human samples and mice.
- Run and analyze cell-based assays with primary cells and cell lines.
- Collect tissue samples from human or rodents, isolate cells and test their functions.
- Perform mouse husbandry, breeding, collect blood and organ samples.
- Perform other assays on-demand such as histology assays such as IF & IHC staining.
- Accurately document and publish research findings.
- Actively support applications for grants and sponsored research funding proposals.

Qualifications:

- PhD in immunology or related field is required.
- At least one first-author publication in peer-reviewed journals is required.
- Skills in cell culture and mouse in vivo studies are preferred.
- Experience and skills in immunology field are highly encouraged to apply.
- Proficiency in Microsoft Office (Word, PowerPoint, Excel) is required.
- Must be open to learning new techniques.
- Good organizational skills and communication skills are required.

Compensation:

NIH salary scale plus benefits.

Equal Employment Opportunity:

The IBRI provides equal employment opportunities to all employees and applicants and does not discriminate on the basis of age, race, color, religion, gender, sexual orientation, gender identity, gender expression, national origin, protected veteran status, disability or any other legally protected status.

Apply:

Please visit us at www.indianabiosciences.org/careers to learn more and/or apply for this opportunity. Interested individuals are encouraged to provide their CV/resume and a brief cover letter with their application.