Research Assistant Position Available in Translational Neuroimmunology

Center for Clinical and Translational Research (CCTR):
Magaña Laboratory

Abigail Wexner Research Institute
Nationwide Children’s Hospital

The Ohio State University
Columbus, OH, United States

Magaña Lab Research Interests: Translational Neuroimmunology, Human-derived Biospecimens, OMICs Technologies, Extracellular Vesicle Isolation and Characterization, Noncoding RNAs, Biomimetic and Lab-on-chip, Microscopy, Omics & NGS, Epigenetic and Molecular Mechanisms of CNS Neuroinflammation, Multiple Sclerosis, Acquired Demyelinating Syndromes, Neuroinfectious Diseases.

The Magaña Lab is accepting applications for a Research Associate (applicants with a MS from backgrounds in Neuroscience, Oncology, Immunology, or Molecular, Cellular, and Developmental Biology will be considered, additional backgrounds in Genomics/Bioinformatics/Statistics is a plus).

Our team is part of the Center for Clinical and Translational Research (CCTR) at the Abigail Wexner Research Institute at Nationwide Children’s Hospital, which exists to answer questions that will improve the early diagnosis, treatment and outcomes of society’s most important pediatric diseases by combining high-quality, fact-based lab discoveries and innovative patient-based research. The Abigail Wexner Research Institute is organized into 13 multidisciplinary Centers of Emphasis, with over 180 Principal Investigators and more than 500,000 square feet of dedicated research space. The Research Institute is also ranked among the top 10 for NIH funding among free-standing children’s hospitals.

Our passion and vision is to rapidly translate research discoveries into lasting treatment options for pediatric patients afflicted with neurological disease.

The Magaña Lab bridges the clinic and the laboratory by utilizing a multidisciplinary and innovative approach to advancing the field of pediatric neuroimmunology. Dr. Magaña’s clinical and research focus is on studying the age-span of multiple sclerosis—fetal and neonatal neurology (e.g. maternal-fetal epigenetic regulation of disease risk), as well as childhood, adolescent and adult neurology (e.g. epigenetic modifiers of disease). Specifically, Dr. Magaña is interested in understanding how extracellular vesicles (EVs) mediate cross-talk between cells of the nervous and immune systems. The cause of MS is unknown, however there are several environmental factors that have been associated with MS (e.g. certain viral infections, obesity, Vitamin D, smoking). The broad goal of Dr. Magaña’s lab is in exploring how EVs mediate epigenetic modifications in pediatric CNS neuroimmune disorders. Specifically, we are interested in phenotypically characterizing EV repertoires and EV cargo (e.g. small noncoding RNA, lipids, proteins) and determining their utility as disease and therapeutic biomarkers.

The long-term goal of our research program is to shed light on the molecular and cellular underpinnings of pediatric MS pathogenesis and to identify intra-individual epigenetic and modifiable therapeutic targets that will allow us to establish precision nanotherapeutics.
Ultimately, the passion and vision of the Magaña Lab is to rapidly translate research discoveries into lasting treatment options for pediatric patients afflicted with neurological disease. If you share this passion and vision, please send your CV, a cover letter, names of 5 references with contact information, and a one-page statement of your research interests to Setty.Magana@nationwidechildrens.org

Please include “Translational Neuroimmunology Research Associate Position” in the subject line. Competitive applications will be evaluated when they are received and the position will remain open until the position is filled.

**Essential Responsibilities**
- Supports the collaborative research environment and provides guidance on technical and operational aspects of research.
- Develops and implements research projects in conjunction with PI; identifies methodological problems in research protocols and develops solutions to those problems.
- Independently designs, conducts, and executes molecular and translational experiments.
- Utilizes software applications to assemble, format and perform statistical analyses of data.
- Actively participates in collaborative lab meetings to present data.
- Reads and reviews scientific literature.
- Writes and edits manuscripts and grants.
- Manages laboratory needs (e.g. ordering, organizing, training and compliance).

**Qualifications**

**Who Are We Looking For?**
- MS in Biomedical Sciences with one or two years of laboratory research experience or a BS with 2-3 years of laboratory experience. Tissue cell culture experience is a must.
- Must have strong attention to detail and high degree of accuracy in work.
- Must have excellent verbal and written communication and organizational skills.
- Must be able to work independently and as part of a collaborative team.
- Willing and eager to learn novel and evolving technologies.

**Why Nationwide Children’s Hospital?**
The moment you walk through our doors, you can feel it. When you meet one of our patient families, you believe it. And when you talk with anyone who works here, you want to be part of it, too. Welcome to Nationwide Children’s Hospital, where **Passion Meets Purpose**.

Here, **Everyone Matters.** We’re 12,000 strong. And it takes every single one of us to improve the lives of the kids we care for, and the kids from around the world we’ll never even meet. Kids who are living healthier, fuller lives because of the knowledge we share. We know it takes a **Collaborative Culture** to deliver on our promise to provide the very best, innovative care and to foster new discoveries, made possible by the most groundbreaking research. Anywhere.

Ask anyone with a Nationwide Children’s badge what they do for a living. They’ll tell you it’s **More Than a Job.** It’s a calling. It’s a chance to use and grow your talent to make an impact that truly matters. Because here, we exist simply to help children everywhere.

Nationwide Children’s Hospital. **A Place to Be Proud.**