

Postdoctoral position

University of Rochester School of Medicine and Dentistry

Department of Pediatrics, Division of Breastfeeding and Lactation Medicine

Infant Nutrition Lab – PI Young

<https://www.urmc.rochester.edu/pediatrics/young-lab>

**ENVIRONMENT:** A 2-3 year postdoctoral fellow position is available in the Infant Nutrition lab (PI: Bridget Young) in the Department of Pediatrics, Section of Breastfeeding and Lactation Medicine at the University of Rochester. The lab focuses on early nutritional exposures that have long-lasting programming effects on infant health outcomes. Ongoing work in the laboratory includes assessment of bioactive hormones in human milk and differences in milk composition and infant developmental outcomes between infants fed exclusively at-the-breast vs expressed (pumped) human milk. The lab also studies how variation in infant formula carbohydrate ingredients affects infant blood sugar regulation and pancreatic function. We conduct intricate feeding protocols in healthy infants to study variation in metabolism based on nutritional status. We primarily work with primary patient samples but also utilize in-vitro simulations of digestion and cell culture models. Techniques employed by the laboratory include cell culture, molecular biology including qPCR, ELISA, immunostaining, in vivo studies, RNA sequencing and related omic technologies, and bioinformatics analysis.

**JOB DESCRIPTION:** Under the direction of the principal investigator, the post-doc will contribute broadly to the lab's mission while crafting an independent focus in an area of growth. This will include finalizing analyses and preparing drafts and figures for scientific manuscripts for studies that have completed sample collection. The post-doc will also participate in and supervise analyses of samples from ongoing infant cohorts. This individual may train or supervise research staff and students in the lab. Under the direction of the principal investigator, the post-doc will have the opportunity to design and conduct experiments and collect novel research data. The post-doc may develop new ideas to further current research. The position is available immediately. The initial appointment is for one year, with renewal expected if satisfactory and funds are available. Appointments cannot exceed five years.

**QUALIFICATIONS:** Candidates should have recently earned a PhD, MD, or MD/PhD degree in a broadly relevant field. Experience in molecular biology techniques and basic statistical analysis is required; additional relevant experience is desirable.

**LOCATION:** The laboratory is located within the University of Rochester (UR) Medical Center in Rochester, NY.

**CONTACT:** Interested applicants should send a CV, cover letter with description of research experience and interests, and contact information for three references to [Aubrey\\_Pusey@URMC.Rochester.edu](mailto:Aubrey_Pusey@URMC.Rochester.edu)

The University of Rochester Medical Center is made up of many parts, all devoted to providing highly advanced medical care. Our Mission of “Ever Better” means we improve the well-being of patients and communities by delivering innovative, compassionate, patient and family-centered health care, enriched by education, science and technology. Our Vision is to cultivate a diverse and inclusive environment that guides and transforms our approaches to healthcare, education, research and community partnerships. In the Department of Pediatrics, you will be able to continuously improve yourself and us, working on challenges that truly matter with people that care for each other.

**The University of Rochester has an active Postdoc Association (PDA) that provides support to postdocs through career development, networking, professional recognition, and social activities. More information about the PDA is available on this webpage, <https://ccc.rochester.edu/pda/home/>**

The University of Rochester is committed to fostering, cultivating and preserving a culture of equity and inclusion. The University believes that a diverse workforce and inclusive workplace culture enhances the performance of our organization and our ability to fulfill our important missions. The University is committed to fostering and supporting a workplace culture inclusive of people regardless of their race, ethnicity, national origin, gender, sexual orientation, socio-economic status, marital status, age, physical abilities, political affiliation, religious beliefs or any other non-merit fact, so that all employees feel included, equal valued and supported.