

Our mission is to train Academicians who successfully embrace the role of *Clinician, Educator and Investigator*. The Department of Pediatrics offers 11 Fellowship Programs in a variety of subspecialties. On an average we have 30+ fellows energetically pursuing specialized *clinical training and research endeavors*. We work with each individual to establish a well defined career path to competency and satisfaction.

CONGRATULATIONS!

Rebecca Barnett, DO, Neonatology: Recipient of NIH T32 Fellowship in Pediatric Research
Amy-Lee Bredlau, MD, Pediatric Hematology-Oncology: Recipient of Dean's Fellowship in Pediatric Research
Fariba Rezaee, MD, Pediatric Pulmonology: Recipient of NIH T32 Fellowship in Pediatric Research

Rebecca Barnett, DO is studying Surfactant Protein B deficiency, a rare but lethal disease of the newborn that is caused by a genetic mutation. Currently, the only treatment available is lung transplantation or palliative care. Dr. Barnett is interested in using electro-poration as a method of gene delivery to administer the gene for surfactant protein B (SPB), allowing for the return of normal SPB production and improving lung function. She is currently performing in vitro experiments using the SPB gene and will be performing in vivo experiments using a transgenic mouse model for SPB deficiency. The hope is that this research may further our knowledge in using gene therapy to treat SPB deficiency.

Amy-Lee Bredlau, MD is designing and implementing a Phase I/II Clinical Trial of oral ketamine for children with chronic pain, ages 8-18. This medication is well known for treatment in adults and is currently used off label for anesthesia in children. Dr. Bredlau is designing an IND to attain the FDA's approval for off label use for this study. This is a promising medication for children's chronic pain as it appears to desensitize the afferent pain signals in the spinal cord, eliminating some of the intense pain signals from which patients with chronic pain suffer. The most exciting theory behind treatment with ketamine is that many subjects to date have reported months of decreased pain after only 1-2 weeks of therapy.

Fariba Rezaee, MD is researching "Disruption of Airway Epithelial Tight Junction". Dysfunction of epithelial cells tight junctions is emerging as a risk factor for asthma. Respiratory viral infections are strongly associated with asthma incidence and exacerbations, but the effects on airway epithelial barrier function are not well understood. Many viruses generate double stranded RNA (dsRNA). Dr. Rezaee has found that poly I:C, a synthetic dsRNA, disrupts epithelial cell junctional proteins. Defining the mechanisms by which poly I:C affects the barrier structure and function should enhance our understanding of the associations between respiratory viral infections, airway inflammation, and allergen sensitization.

TRAVEL AWARDS

- **Medical Faculty Council Student/Trainee Travel Awards:** These awards will support graduate student, post-doctoral trainee, clinical resident, and clinical fellow presentations at meetings of national organizations. They will be given twice a year, one for clinical sciences and one for basic sciences. Application deadlines for 2010- 2011: November 15, 2010 for travel between August 1, 2010 and February 1, 2011. The tentative Spring application due date is April 30, 2011 for travel between February 1, 2011 and July 31, 2011. Send submissions to Lori McBride, lori_mcbride@urmc.rochester.edu
- [Pediatric Academic Societies \(PAS\) and Asian Society for Pediatric Research \(ASPR\) joint meeting:](#) April 30 to May 3, 2011 ~ Denver, CO

Abstract and Award Submission Deadlines:
NOVEMBER 15 - 17, 2010

DEPARTMENT OF PEDIATRICS FACULTY RESEARCHER HONORED

Porter W. Anderson, Ph.D., professor emeritus of pediatrics, was elected to the National Academy of Sciences, one of the highest honors a scientist can receive. He is among 72 new members and 18 foreign associates from 14 countries recently elected in recognition of their distinguished and continuing achievements in original research.

The National Academy of Sciences is a private organization of scientists and engineers dedicated to the furtherance of science and its use for the general welfare. Anderson, currently a senior lecturer at Harvard Medical School, was on the Medical Center faculty from 1977 to 1994. He is one of three University of Rochester Medical Center scientists who developed the Haemophilus influenza b (Hib) vaccine, which has virtually eradicated a leading cause of meningitis in preschoolers.

ANNOUNCEMENTS

- **Pediatric Biomedical & Translational Research (PB & TR) Seminar** This monthly series focuses on biomedical and translational research and is directed by Dr. Nina Schor, Chair of the Department of Pediatrics. Fellows are required to attend at least 3 [PB&TR](#) Seminars per year.
- **Department of Pediatrics Poster Symposium Faculty** and Fellows are invited to submit posters and/or attend on Wednesday, November 17, 2010 @ 8:00am to 9:30am in the Flaum Auditorium. Submission deadline is October 22, 2010. (Send submissions to dawnl_smith@urmc.rochester.edu.) *This is a fantastic opportunity to learn more about research within the Department!*
- **Preliminary Scholarship Oversight Committees** should be established by December 31, 2010.
- **Fellows Happy Hour!** Friday, November 5th, 5:30 PM @ [The Distillery](#). This is an informal gathering to get to know each other. Your spouses, colleagues and friends are welcome!

FELLOWSHIP RESEARCH

- **Did you know?** The Department of Pediatrics provides financial support for each fellow to present at one national conference per year.
- **Research Links**
[URMC Research](#) [Pediatric Research](#) [Pediatric Research News](#)
[Research Labs at URM](#) [Pediatric Investigators](#) [Pediatric Research Centers](#)

ABP RESEARCH REQUIREMENTS TO SIT FOR YOUR BOARDS

Fellows must complete the Core Curriculum in scholarly activities. This curriculum provides skills that lead to an understanding of biostatistics, clinical and laboratory research methodology, study design, preparation of applications for funding and/or approval of clinical or research protocols, critical literature review, principles of evidence-based medicine, ethical principles involving clinical research, and the achievement of proficiency in teaching. Our **PACC** (Pediatric Academic Core Curriculum) Series is held Tuesdays at 8:00am in the Kaiser Rm 4-2546. Semi-annual attendance reports are sent to Program Directors & Coordinators.

The ABP requires fellows to participate in scholarly activities that result in a specific written **Work Product** is required. Examples include, but are not limited to: a peer-reviewed publication in which a fellow played a substantial role; an in-depth manuscript describing a completed project; a thesis or dissertation written in connection with the pursuit of an advanced degree; an extramural grant application that has either been accepted or favorably reviewed; a progress report for projects of exceptional complexity, such as a multi-year clinical trial.

Upon completion of training, the ABP requires: verification from the training program director that the clinical and scholarly skills requirements have been met; a comprehensive document (i.e. personal statement), written by the fellow, describing the scholarly activity and how it relates to their own career development plan; the actual Work Product as described above; signature of the fellow, program director, and the Scholarship Oversight Committee (SOC).

CONTACTS FOR ASSISTANCE IN ESTABLISHING AN SOC

- > Your Program Director and Division Chief
- > George Schwartz, MD ~ Associate Chair for Research george_schwartz@urmc.rochester.edu
- > Frank Gigliotti, MD ~ Associate Chair for Academic Affairs francis_gigliotti@urmc.rochester.edu
- > Nina Schor, MD, PhD ~ Chair and Pediatrician-in-Chief nina_schor@urmc.rochester.edu

FOR YOU AND YOUR FAMILY

Mt Hope Cemetery ~ Formed by glaciers, Mt Hope Cemetery's landscape features high hills and deep valleys; Civil Rights activists Susan B. Anthony and Frederick Douglass are buried there. General tours each weekend through October. Upcoming theme tours: Fall Foliage Tour: Sat, 10/23; Torch Light Guided Tours: Sat, 10/23 & Tues, 10/26 <http://www.fomh.org>

Fall Foliage by Trolley and Train ~ Route starts at NY Museum of Transportation, Rush, NY. Every Sunday through October 31st. Departs every half hour from 11am to 5pm. \$7 for adults; \$5 for kids. <http://www.nytmuseum.org>