



**Mount  
Sinai**

## *Fellowship in Environmental Pediatrics*

*Children today are at risk of exposure to multiple environmental hazards—toxic chemicals, social stressors and the hazards of the built environment.*

*Evidence is mounting that exposures in the modern environment influence health and development and contribute to the causation of common diseases in children—asthma, cancer, learning disabilities, ADHD, autism, & obesity*

*Few scientists are trained to study the environmental causes of illness, fetal physiology and the role of development in determining toxicity of chemicals or to diagnose, treat and prevent diseases of environmental origin.*

## *Program Description*

The Mount Sinai Fellowship in Environmental Pediatrics is a three-year, post-residency/postdoctoral, interdisciplinary research fellowship training program in children's environmental health. The Fellowship is supported by a T32 Training Grant from the National Institute for Child Health and Human Development (NICHD) and is open to physicians and PhDs. We provide advanced training in pediatric environmental health in the areas of epidemiology, biostatistics, toxicology, risk assessment bioinformatics and clinical medicine to a select cadre of young scientists.

- Epidemiologic research in environmental pediatrics is a core training theme but basic science fellows are welcome as well.
- Our faculty have diverse backgrounds in neuroscience, toxicology, epidemiology, among other disciplines and training is designed to be interdisciplinary
- Selection of Fellows is competitive, and emphasis is placed on recruitment of underrepresented minorities.
- The Fellowship links to the Mount Sinai Pediatric Environmental Health Specialty Unit, the NIH CHEAR program and to multiple NIH funded birth cohorts,
- Our program manages the annual Academic Pediatric Association Environmental Scholars retreat and all fellows are invited to attend.

## *Annual Fellows' Retreat*

Each December, Fellows attend a retreat for Pediatric Environmental Health Scholars convened by the Academic Pediatric Association. At this retreat, Fellows from across the USA have an opportunity to present research in progress and to spend protected time with leaders in the field.

## *Program Curriculum*

This three-year Fellowship training program combines classroom education that leads to an MPH degree, with a mentored research experience, and clinical experience in environmental pediatrics. Most coursework is completed in the first two years.

### **1st Year:**

- Fellows receive didactic training in epidemiology, biostatistics, environmental medicine, study design and research methodology through the Mount Sinai MPH program.
- Fellows select a research topic, a mentor, and an interdisciplinary advisory committee and begin their mentored research.
- Fellows gain clinical experience in environmental pediatrics in the Pediatric Environmental Health Specialty Unit.

### **2nd and 3rd Year:**

- Fellows complete their MPH coursework.
- Fellows take a course on grant writing through the Mount Sinai Clinical Translation Science Award and taught by program faculty.
- Fellows complete their mentored research project, write papers, an MPH thesis and a grant application based on this research, and begin their transition to academic independence.
- Physician Fellows see patients in the Pediatric Environmental Health Specialty Unit
- **All 3 years:**
- Fellows participate in a workshop on biomarkers and molecular epidemiologic methods sponsored by the NIH CHEAR program.
- Fellows receive career development guidance from their mentors and the program director.

## *Expected Outcomes*

Each Fellow is expected to accomplish these goals:

- Successful completion of an MPH degree focusing on environmental pediatrics.
- Authorship of at least 1-2 publishable manuscripts based on original research.
- Authorship of at least 2-3 posters for presentation at regional or national meetings.
- Development of a K99/R00, K23 or equivalent career development award grant proposal.

## *Application*

The Fellowship is open to physicians who have completed two to three years of pediatric residency training and also to research scientists in related disciplines who have completed doctoral training. Fellows are selected on the basis of their interest in pediatric environmental health, academic and clinical performance during residency or research training, research potential, and potential for future academic leadership.

Interested applicants may submit a letter of intent and a curriculum vitae to:

Dr. Robert Wright  
Ethel H. Wise Professor and Chair  
Director, Division of Environmental Health  
Department of Environmental Medicine and Public Health

Icahn School of Medicine at Mount Sinai  
One Gustave L. Levy Place; Box 1057  
New York, NY 10029  
Telephone: 212.824.7035  
Fax: 212.996.0407

Program Manager: Rozalyn Paupaw  
Email: [Rozalyn.paupaw@mssm.edu](mailto:Rozalyn.paupaw@mssm.edu)

## *Program Resources*

### **Academic Departments and Other Key Resources**

The four academic Departments in the Mount Sinai School of Medicine that are most central to supporting this research training fellowship in environmental pediatrics are:

- ◆ Department of Environmental Medicine and Public Health, where the administrative base of the fellowship resides
- ◆ Department of Pediatrics
- ◆ Department of Psychiatry, specifically the Seaver Autism Center
- ◆ Department of Neurosciences

### **Additional key resources that support the fellowship are:**

- ◆ CHEAR Laboratory Hub and the CHEAR Data Center
- ◆ The NIEHS P30 Core Center
- ◆ Institute for Translational Epidemiology
- ◆ Mindich Child Health and Development Institute
- ◆ Conduits, the Mount Sinai Institute for Clinical and Translational Science (CTSA)
- ◆ CePORTED, the Center for Patient Oriented Research, Training, Education, and Development, the educational arm of the Mount Sinai CTSA
- ◆ Mount Sinai Graduate School of Biological Sciences, which hosts the MPH program



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## *The Icahn School of Medicine NIH T32 Pediatric Environmental Health Research Fellowship*



### **Icahn School of Medicine at Mount Sinai**

One Gustave L. Levy Place  
Box 1057  
New York, New York 10029

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is supported by:

### **The National Institute of Child Health and Human Development**