Research in Residency Program

Kathryn A. Wikenheiser-Brokamp, MD, PhD
Director, Residency Research Program
Associate Director, Medical Scientist Training Program
Associate Professor, Pathology & Pulmonary Biology
Cincinnati Children’s Hospital Medical Center will be the leader in improving child health

• Ask the right questions to drive innovation in areas that will significantly impact patient care

• Move these novel discoveries to the care of children to improve outcomes

This process requires a continuous dialog between clinicians and researchers
Physician Scientist Investigative Pipeline

Margaret Hostetter, MD
Associate Program Director, Research & Academic Careers
July 1, 2013 – July 1, 2014

Kathryn Wikenheiser-Brokamp, MD/PhD
Director, Residency Research Program
July 1, 2014 - present
Research in Residency

Goals

• Continue physician scientist development throughout the training continuum
  – MD, DO, MD/PhD
  – Create clinicians well versed in research and methodology
• Strengthen the physician scientist investigative pipeline

Benefits

• Position our residents for choice fellowships
• Distinguish CCHMC’s residency from competitors
Physician Scientist Investigative Pipeline and Funding Mechanisms

Research in Residency Awards
Pratt Lectures

Pediatric Scientist Development Program

MSTP  Residency  Fellows  Junior Faculty  Senior Faculty

Physician Scientist Retreats
Whitsett Physician Scientist Training Fellowship

Fellows’ CrossTalk
Strauss Research Award

Procter Scholar
Trustee Award

RIP/GAP Awards
Residency Program Structure

Margaret Hostetter, MD
Rachford Professor and Chair
Director, Cincinnati Children’s Research Foundation
Chief Medical Officer, CCHMC

Javier A. Gonzalez del Rey, MD, MEd
Director

Sue E. Poynter, MD, MEd
Co-Director

Thomas G. DeWitt, MD, FAAP
Director,
Division of General and Community Pediatrics

Ndidi I. Unaka, MD
Associate Director,
Pediatric Residency Program

Melissa D. Klein, MD, MEd
Director
Primary Care and Community Pediatrics

Charles J. Schubert, MD
Director,
Global Child Health

Kathryn A. Wikenheiser-Brokamp, MD, PhD
Director
Residency Research Program

Chief Residents
Alicia Alcamo MD/MPH, Matt Kelleher MD, Chuck Varnell MD,
Brandy Blackwell-Ford MD, Jacob Redel MD
Residency Training at CCHMC

- ~200 total current residents
- ~60 new residents recruited each year
  - Pediatrics (Categorical/Preliminary) 41
  - Pediatrics/Medicine 7
  - Pediatrics/Neurology 5
  - Pediatrics/Psychiatry 3
  - Pediatrics/Physical Med & Rehabilitation 2
  - Pediatrics/Genetics 1
  
- Ranked third in USNWR pediatric residency rankings
MD/PhD Recruitment is Slowly Increasing

![Graph showing the increase in MD/PhD residents from 2003-04 to 2014-15.](image)
Enhance MD/PhD Recruitment

- Continue our strong UC/CCHMC MSTP
  - ~25% match in Pediatrics
  - 4/18 (22%) of current MD/PhD residents
  - 1/10 (10%) of current MD/PhD fellows
  - Two current CCHMC faculty
    - Kathryn Wikenheiser Brokamp: Pulmonary Biology, Pathology
    - Patty Fulkerson: Allergy/Immunology
  - Provide training programs and vertical interactions to enhance physician scientist training

- Involvement in GREAT MD/PhD Section Group
  - Collaboration between Group on Graduate Research, Education and Training and Association of American Medical Colleges
  - Foster exchange of information and ideas among leaders of physician scientist training
  - Share MD/PhD graduate list

- Highlight CCHMC Programs at American Physician Scientist Association Annual Meeting; the leading organization for physician-scientist trainees
Promote Participation in Research
Edward L. Pratt Lectures

• Annual resident event in honor of Edward L. Pratt, MD – Professor and Chair of Pediatrics 1963-1979
• Residents present research in an open forum for critical analysis
• Keynote speaker who is a program alum
• Last year – 35 abstracts (highest ever)
Resident participation in Pratt lectures is increasing
Both MD/DO and MD/PhD residents participate in research.

[Graph showing the participation of MD/DO, MD/PhD, and MD/MPH residents in research from 2010 to 2014.]
Research in Residency Awards

Goals
• Encourage and reward meritorious research proposals from residents in categorical pediatrics
• Provide residents with opportunity to develop grant writing skills

Outcomes
• Distinguish our residency curriculum from that of other institutions
• Position our residents optimally for choice fellowships
Research in Residency Awards

- 5-6 months continuous research
- Diverse research areas
  - Basic, translational, clinical
  - Educational
  - Health services, systems improvement
  - Outcomes
- $5000 resident award; $2000 award for supplies
- 5 awards annually
Vertical Interactions with Physician Scientists

- MSTP
- Faculty
- Residents
- Fellows

Separately run programs for physician scientist career development
Continue and extend vertical interactions among physician scientists at all career stages

- Create physician scientist community and support
- Provide opportunities for peer and vertical mentoring
- Enhance exposure to diverse career paths
- Promote collaboration
- Provide venues for interaction and discussion

Integrate programs for physician scientist career development
The Bridge to Fellowship: Structured Oversight and Professional Development

- **Structured oversight**
  - Choosing mentors
  - Mentor/Mentee roles & contributions
  - Career advising

- **Professional development**
  - Manuscript and grant writing
  - Exposure to diverse careers
  - Presentations
  - Teaching
Questions?