

University of Pittsburgh Fellowship Program in Infectious Diseases



University of Pittsburgh
Infectious Diseases Fellowship Program
Phone: 648-6406

Mission Statement

- The mission of our fellowship program is to train future leaders of infectious diseases in clinical medicine and research.
- We are committed to the mission of providing state-of-the-art health care that is of the highest quality, compassionate, comprehensive and easily accessible to patients with a variety of infectious diseases.

Mission Statement

- We provide excellence in mentoring and training fellows, residents, and medical students to become leaders in the care of patients with infectious diseases and leaders in the discovery of new knowledge in basic, translational, and clinical research.
- The Division of Infectious Diseases is well-known for its clinical and research excellence in:
 - HIV/AIDS
 - Medical mycology
 - Molecular microbiology and epidemiology
 - Infection control
 - Transplant infectious diseases

Statements from the Fellows

- *“Very strong Fellowship program that offers a diverse experience in both clinical and research training”.*
- *“Well-respected caliber of training. We appreciate the Division’s commitment to excellence in teaching and assuring that we receive rigorous research training in order to succeed in academic medicine”.*

Statements from the Fellows

- *“Excellent ID faculty who provide us with a balanced view of clinical infectious diseases and bring with them their particular research focus or interests to teaching rounds”.*
- *“I’m amazed at the amount of teaching and the concern the fellows get from the attendings. They really want to make sure we succeed in our future plans.”*

Outstanding in Teaching

- The Division of Infectious Diseases has been recognized for its outstanding teaching of the medical students, residents and fellows, and nominated for various prestigious teaching awards.

Outstanding in Teaching

- **Karin Byers, MD**
 - Recipient of the “*2008 Clinical Educator of the Year*” award presented to faculty who consistently provides outstanding clinical education in the elective course setting for medical students of the University of Pittsburgh School of Medicine.
- **Peter Veldkamp, MD, MS**
 - Recipient of the “2007 Outstanding Teaching Attending” award from the University of Pittsburgh, Department of Medicine Interns
 - Recipient of the “*2008 Excellence in Education Award*” as Course Director, presented by the Department of Medicine Class of 2011.

Outstanding in Teaching

- **Cornelius J. Clancy, MD**
 - Recipient of “Excellence in Teaching Medical Students” award in 2007 while faculty at University of Florida. Dr. Clancy was recruited to University of Pittsburgh in November 2007 as Director of Mycology Research Unit
- **Minh-Hong Nguyen, MD**
 - Recipient of “Excellence in Teaching Residents and Fellows” and “Excellence in Teaching Medical Students” in 2007 while faculty at University of Florida. Dr. Nguyen was recruited to University of Pittsburgh in November 2007 as the Director of Transplant ID Program and Antibiotic Management Program.
 - Recipient of the “Thomas Sydenham Distinguished Clinical Teaching Award” presented by the University of Florida Department of Medicine to the faculty member who best represents the ideals of an outstanding Academic Internist.

Educational Offerings

- Weekly ID core curriculum lectures
- Weekly general ID journal club
- Weekly ID Grand Rounds:
 - Microbiology photo quiz
 - Case presentations
 - Faculty Research-in Progress
 - Invited speakers including Annual Fellows' Guest Lecturer
- Thrice-monthly HIV/AIDS rounds
 - Antimicrobial resistance
 - Morbidity and Mortality
- Bi-annually Fellows' Research-in-Progress
- Bi-monthly Transplant ID journal club (optional)

Outstanding Training Schedule

Year 1:

- Infectious Diseases consultation service: 10 months
 - UPMC General Infectious Diseases Consult Service
 - VA Medical Center Infectious Diseases Consult Service
 - Surgical Infectious Diseases Consult Service
- Microbiology Laboratory Rotation: 1 month
- Infection Control Rotation: 1 month
- Ambulatory Infectious Diseases Clinic: 1/2 day per week
- Research Elective: 1 month

Year 2:

- Biomedical Research Training: 9 months
- Transplant Infectious Diseases Consult Service: 1 month
- Surgical Infectious Diseases Consult Service: 2 weeks
- Ambulatory HIV/AIDS Clinic: 1/2 day per week

Year 3 (optional):

- Biomedical Research Training: 11 months
- Ambulatory HIV/AIDS Clinic: 1/2 day per week

Diversity of Clinical Cases

- UPMC at the University of Pittsburgh is a tertiary care referral hospital that translates clinical and research excellence into state-of-the-art, evidence-based care
- UPMC has renowned programs in transplantation, cancer, neurosurgery, orthopedic surgery, endocrinology, otolaryngology, rheumatology, gastroenterology, infectious diseases, nephrology, pulmonology, geriatric care, cardiology and cardiac surgery, psychiatry, rehabilitation and urology

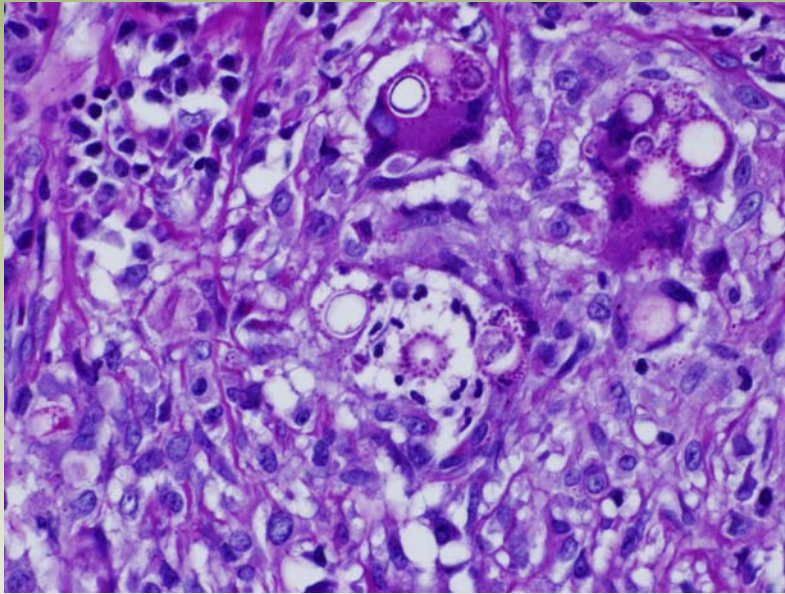
Diversity of Clinical Cases

- The fellows encounter common as well as exotic cases in:
 - Bacteriology
 - Mycology
 - Virology
 - Parasitology
- The fellows also round at the VA Medical Center where they encounter a variety of community-acquired infections and infectious complications of diabetes mellitus and other chronic medical diseases, cancer and transplantation.

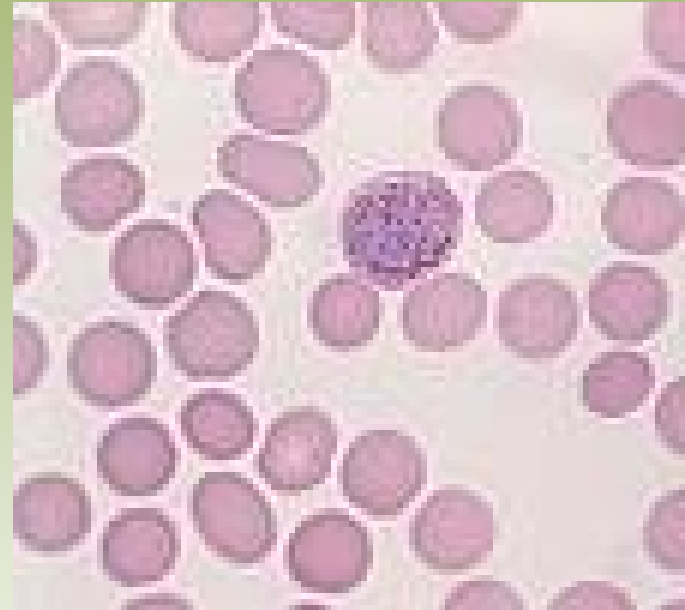
Diversity of Clinical Cases

- Microbiology is a major part of infectious diseases training.
 - The general ID service rounds in the Microbiology laboratory prior to bedside rounds.
 - A weekly microbiology “puzzler” is an integral part of fellows’ education.

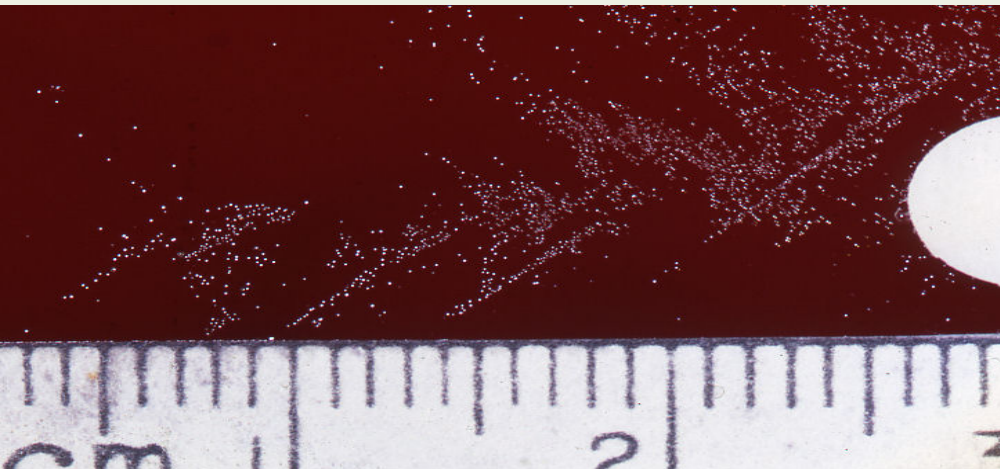
Recent Weekly Micro Quiz



“Sailing to South America”



“Imported Fever from Afghanistan”



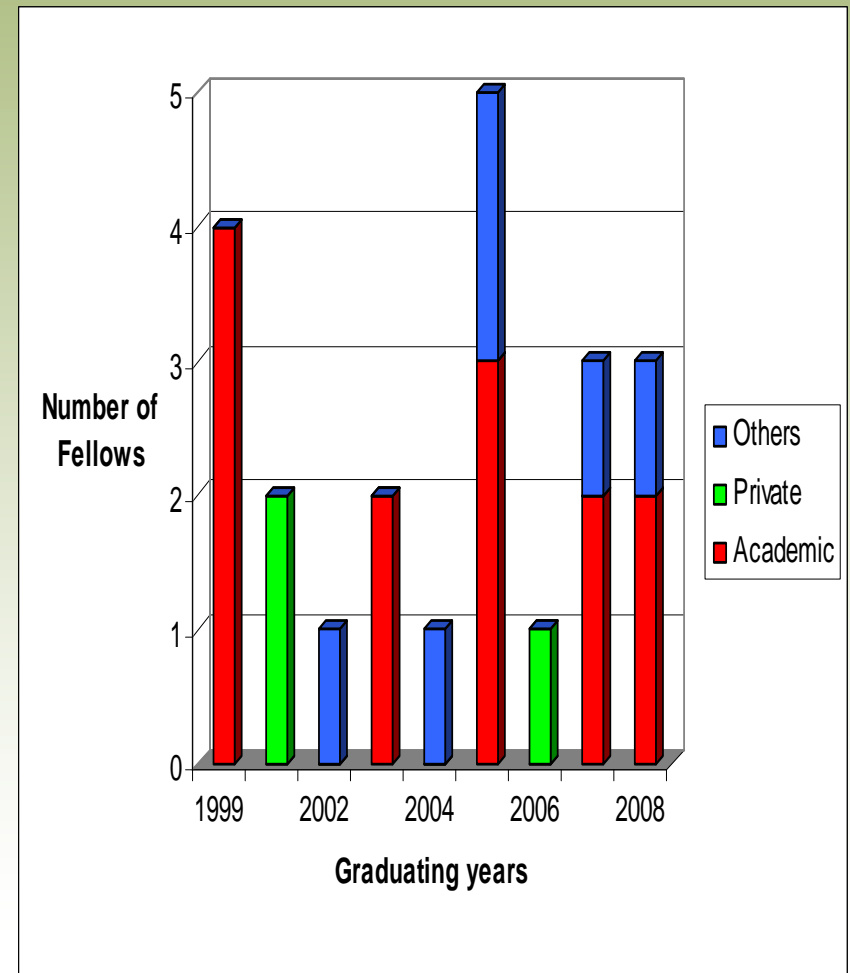
“What the eyes don’t see the heart doesn’t feel – is it always true?”

Outstanding Research Opportunities

- The Division of Infectious Diseases has an outstanding track record in training researchers.
- Our recent fellows have been recognized at prestigious national meetings for the excellence of their research, including the Infectious Diseases Society of America Annual Meeting and the American Society of Microbiology's Interscience Conference on Antimicrobial Agents and Chemotherapy.

Outstanding Research Opportunities

- 59% of our fellows in the past decade have assumed academic positions at major teaching institutions



Selected 1st Authored Publications

- **Curry SR**, et al. tcdC genotypes associated with severe TcdC truncation in an epidemic clone and other strains of *Clostridium difficile*. J Clin Microbiol. 2007;45:2103
- **Doi Y**, et al. Coproduction of novel 16S rRNA methylase RmtD and metallo-beta-lactamase SPM-1 in a panresistant *Pseudomonas aeruginosa* isolate from Brazil. Antimicrob Agents Chemother. 2007;51:852-6.
- **Doi Y**, et al. 16S ribosomal RNA methylation: emerging resistance mechanism against aminoglycosides. Clin Infect Dis. 2007;45:88-94.

Fellows Selected 1st Authored Publications

- **Doi Y**, et al. High prevalence of metallo-beta-lactamase and 16S rRNA methylase coproduction among imipenem-resistant *Pseudomonas aeruginosa* isolates in Brazil. *Antimicrob Agents Chemother.* 2007;51:3388-90.
- **Doi Y**, et al. Identification of 16S rRNA methylase-producing *Acinetobacter baumannii* clinical strains in North America. *Antimicrob Agents Chemother.* 2007;51:4209-10.

Fellows Selected 1st Authored Publications

- Doi Y et al. *Escherichia coli* isolate coproducing 16S rRNA Methylase and CTX-M-type extended-spectrum beta-lactamase isolated from an outpatient in the United States. *Antimicrob Agents Chemother.* 2008;52:1204-5.
- Doi Y,et al. Community-acquired extended-spectrum beta-lactamase producers, United States. *Emerg Infect Dis.* 2007;13:1121-3.

Fellows Selected 1st Authored Publications

- Doi Y, et al. Characterization of a naturally occurring class D beta-lactamase from *Achromobacter xylosoxidans*. *Antimicrob Agents Chemother.* 2008;52:1952-6.
- Doi Y, et al. Nomenclature of plasmid-mediated 16S rRNA methylases responsible for pan aminoglycoside resistance. *Antimicrob Agents Chemother.* 2008;52:2287-8.
- Doi Y, et al. Genetic environment of 16S rRNA methylase gene rmtD. *Antimicrob Agents Chemother.* 2008;52:2270-2.

Selected 1st Author Publications from Recent Fellows

- Bhat SV, et al. Failure of current cefepime breakpoints to predict clinical outcomes of bacteremia caused by gram-negative organisms. *Antimicrob Agents Chemother.* 2007;51:4390-5.
- Bhat S, et al. *Pseudomonas aeruginosa* infections in the Intensive Care Unit: can the adequacy of empirical beta-lactam antibiotic therapy be improved? *Int J Antimicrob Agents.* 2007;30:458-62.

Selected 1st Author Publications from Recent Fellows

- Bhat SV, et al. *Scedosporium prolificans* brain abscess in a patient with chronic granulomatous disease: successful combination therapy with voriconazole and terbinafine. Scand J Infect Dis. 2007;39:87-90.
- Peleg AY, et al. *Acinetobacter baumannii* bloodstream infection while receiving tigecycline: a cautionary report. J Antimicrob Chemother. 2007;59:128-31
- Pelag AY, et al. Risk factors, clinical characteristics, and outcome of *Nocardia* infection in organ transplant recipients: a matched case-control study. Clin Infect Dis. 2007;44:1307-14.

Selected 1st Author Publications from Recent Fellows

- Silveira et al. Bloodstream infections in organ transplant recipients receiving alemtuzumab: no evidence of occurrence of organisms typically associated with profound T cell depletion. *J Infect.* 2006;53:241-7.
- Silveira F, et al. Pulmonary fungal infections. *Curr Opin Pulm Med.* 2005;11:242-6.
- Silveira F, Fujitani S, Paterson DL. Antibiotic-resistant infections in the critically ill adult. *Clin Lab Med.* 2004;24:329-41.

Conclusion

- The ID fellowship program at UPMC provides state-of-the-art clinical and research training
- Our graduates are qualified to succeed in the different venues of ID: clinical care, clinical, translational and basic research, infection control, public health

Contact Us

Please contact **Kim Barnhart** with questions about the Infectious Diseases Fellowship Program. We appreciate your interest and look forward to receiving your application

Kim Barnhart, M.Ed.

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