

University of Virginia Division of Infectious Diseases and International Health Fellowship Program





Eric Houpt, MD

Division Chief

**University of Virginia Health System
Division of Infectious Diseases and
International Health
Professor of Medicine**



Chris Moore, MD

Fellowship Program Director



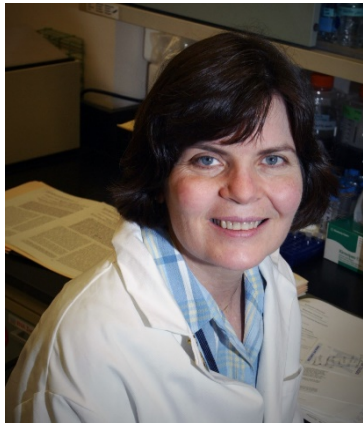
Kate McManus, MD

Fellowship Associate Program Director



Brian Wispelwey, MD

Vice Chief for Clinical Affairs and Education



Barbara Mann, PhD

Vice Chief for Research and Faculty Development

UVa Infectious Diseases Fellowship Program—Diversity and Inclusion



Greg Townsend, MD

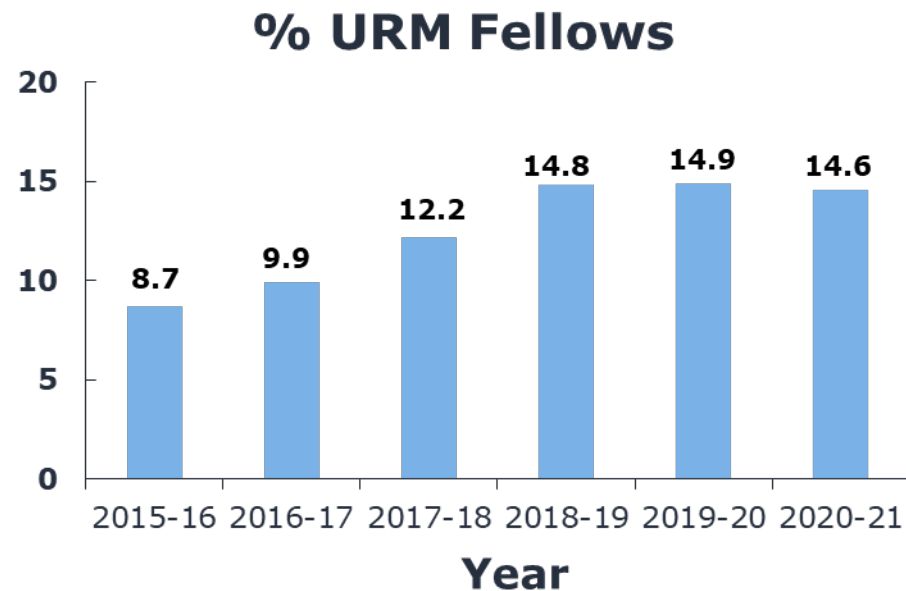
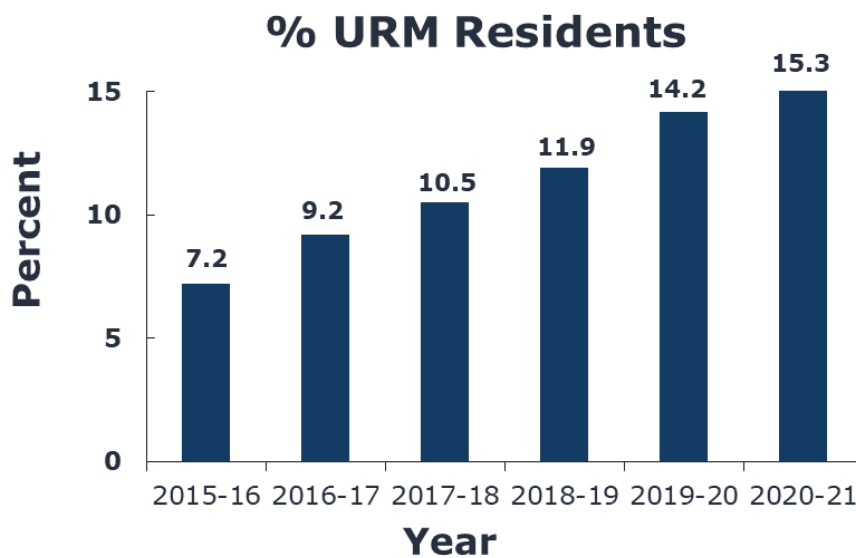
Associate Dean for Diversity and Inclusion,
School of Medicine

Associate Professor, Division of Infectious
Diseases and International Health

- **Creating and maintaining a climate of diversity and inclusion are priorities at the School of Medicine and the Division of Infectious Diseases**
- **We recognize that diversity is an *essential* component in our efforts to continue, and to expand upon, the traditions of excellence in the School and the Division of Infectious Diseases**
- **<https://med.virginia.edu/diversity/>**

UVa Infectious Diseases Fellowship Program—Diversity and Inclusion

- 2020—Higher Education Excellence in Diversity Award; 10 years in a row
- 2018-19; 2019-2020—BlackDoctor.org: One of 60 “Top Hospitals for Diversity”
- 2017, 2018, 2019—LGBTQ Healthcare Equality Leader





UVa Infectious Diseases Fellowship Program

- Committed to producing the next generation of leaders in infectious diseases through outstanding clinical and research training with the ultimate goal of preventing and optimally treating infectious diseases here and around the world**
- Committed to a collegial and supportive environment in the care of patients, research, teaching, and learning**

UVa Infectious Diseases Fellowship Program

- **3 year NIH T-32 supported training program (ID x 44 yrs; Biodefense x 18 yrs!!)**
- **Year 1: dedicated research training**
- **Years 2 & 3: Six months each of clinical training and research training**



UVa Infectious Diseases Fellowship Program— The Research Experience

- **Goal: To progress from an outstanding medical resident to a much sought after Assistant Professor in 3 years**





UVa Infectious Diseases Fellowship Program— The Research Experience

- **How?**
 - **Research acumen in a focused area of infectious diseases**
 - **Track record of peer reviewed publications**
 - **Propose research compelling enough to receive extramural funding**
 - **National Institutes of Health**
 - **Burroughs-Wellcome Fund**
 - **Gates Foundation**
 - **Harold Amos Faculty Dev't Program**

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UVA Infectious Diseases Fellowship Program— The Research Experience





UVa Infectious Diseases Fellowship Program— The Research Experience

- **Research development**
 - **Work with one or more faculty members from the Division of ID&IH and/or affiliated departments**
 - **Extensive mentoring, individualized research plan and an advisory committee**
 - **Protected time for research**
 - **Superb research infrastructure and support**

UVA Infectious Diseases Fellowship Program— The Research Experience

- **Research portfolio**
 - **Basic laboratory science**
 - **Translational science**
 - **Clinical science**



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UvA Infectious Diseases Fellowship Program— The Research Experience



UVA Infectious Diseases Fellowship Program— The Research Experience

Bacterial diseases

- Biodefense pathogens
- Enteric pathogens
- *Campylobacter*
- *C. difficile*
- *Neisseria*/STDs
- *S. aureus*
- MDROs
- *M. tuberculosis*
- Sepsis

Parasitic diseases

- Amebiasis
- Cryptosporidiosis
- Giardiasis
- Malaria



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UVA Infectious Diseases Fellowship Program— The Research Experience



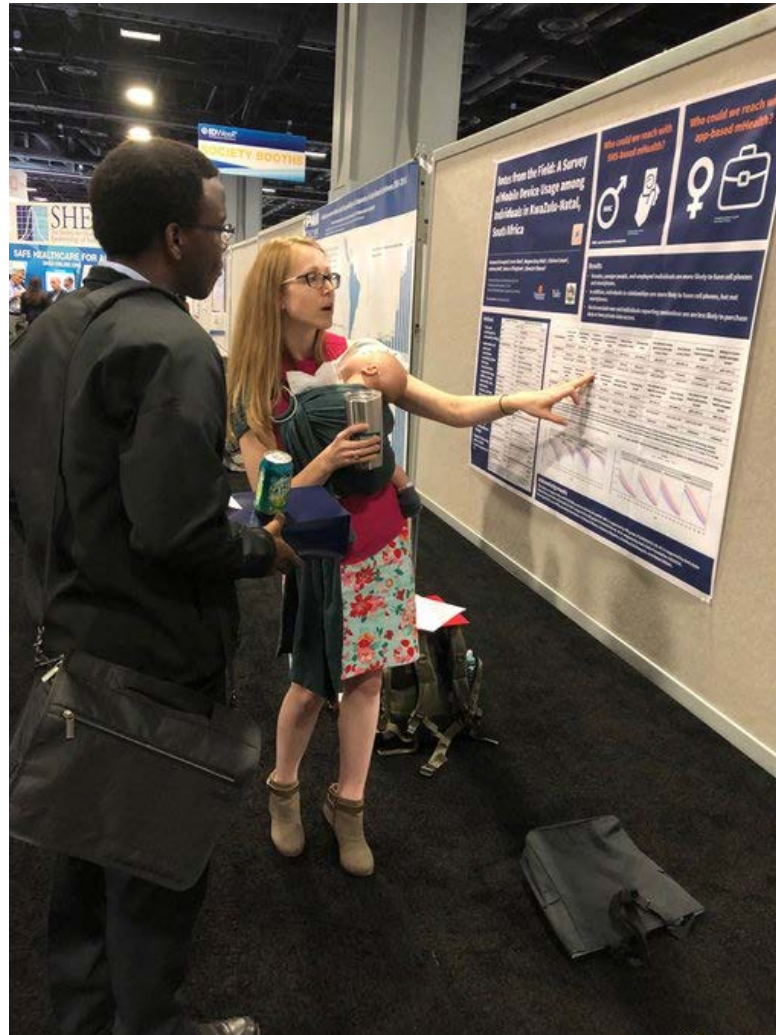


UVA Infectious Diseases Fellowship Program— The Research Experience

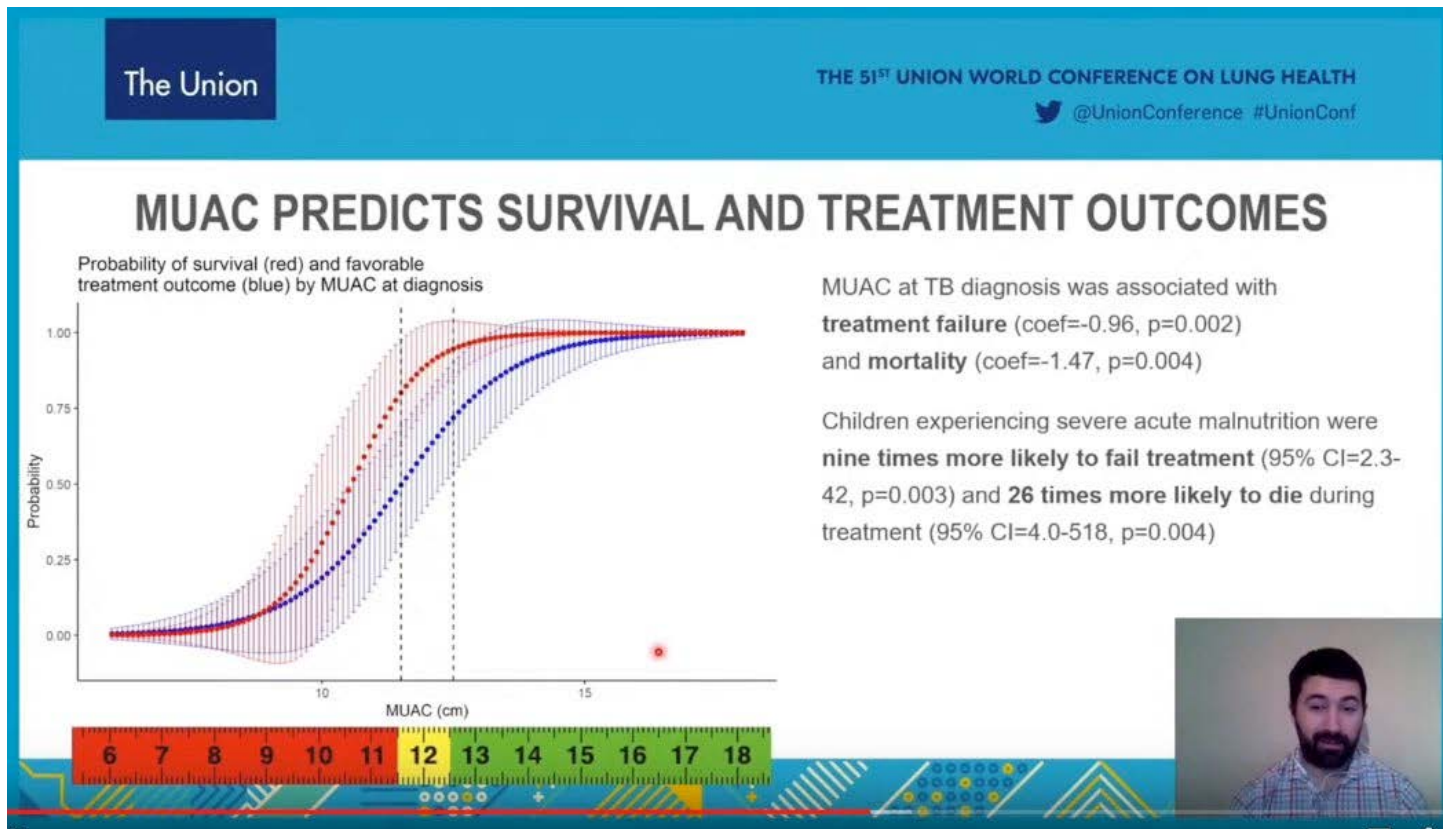
- **Virology (HIV, HCV, HHV-8, Influenza, Ebola)**
- **Host genetics**
- **Epidemiology**
- **Immunology**
- **Molecular diagnostics**
- **Health policy and outcomes**
- **mHealth**

- **Hospital epidemiology**
- **Antibiotic stewardship**
- **Predictive analytics**
- **Transplant infections**
- **Clinical trials**

UVa Infectious Diseases Fellowship Program— The Research Experience

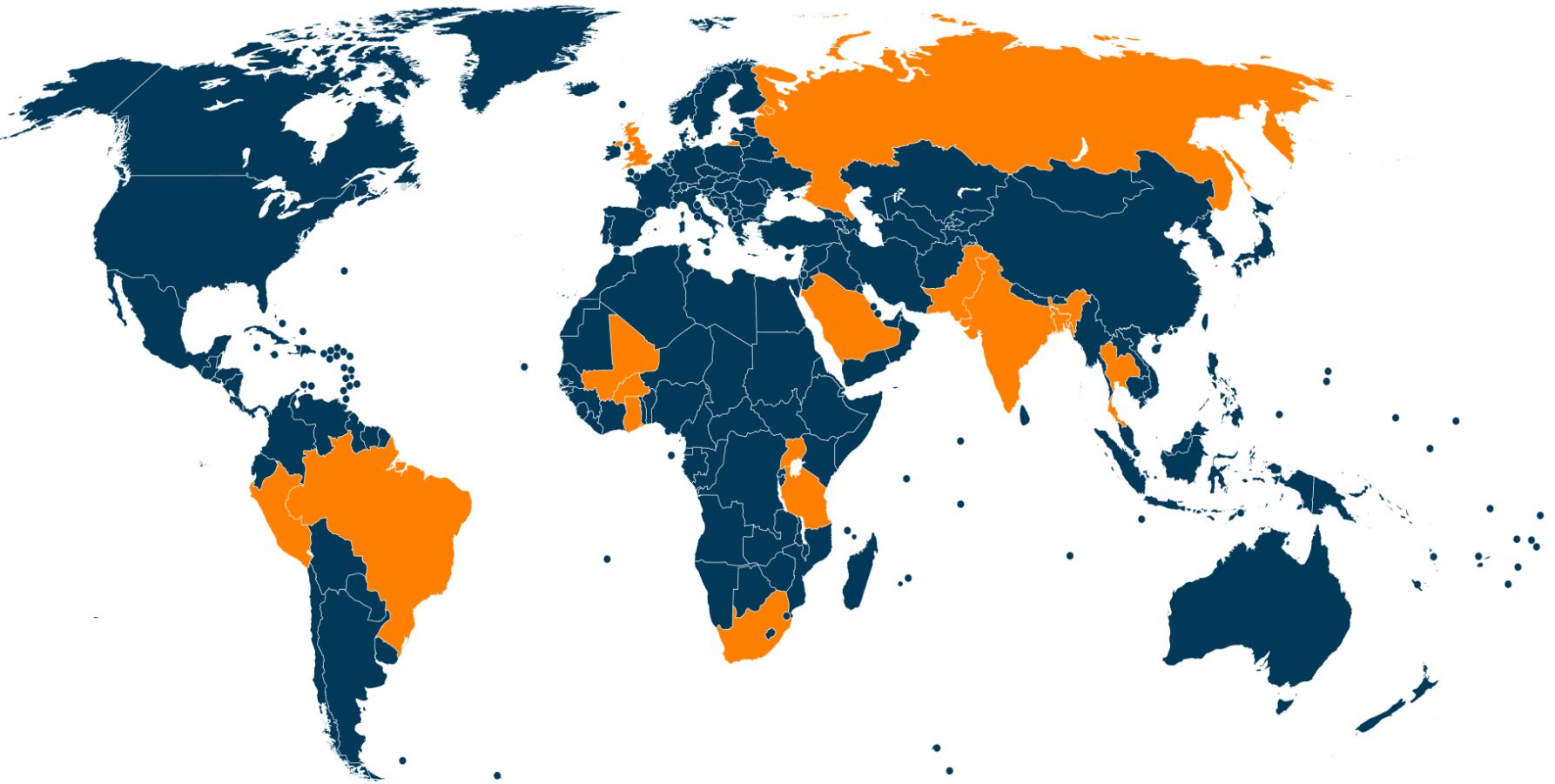


UVa Infectious Diseases Fellowship Program— The Research Experience



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UvA Infectious Diseases Fellowship Program— International collaborations



UVa Infectious Diseases Fellowship Program— The Research Experience



UVA Infectious Diseases Fellowship Program— The Research Experience

- **Dean's Excellence in Research Award**

- **Heysell, Houpt, Mathers, Petri, Platts-Mills**

- **UVA Distinguished Scientist Award**

- **Petri, Scheld**

- **Bailey K Ashford Medal, ASTMH**

- **Houpt, Kosek, Mann**

- **Oswald Avery Award, IDSA**

- **Houpt, Petri**

- **Maxwell Finland Award, NFID**

- **Guerrant**

- **Walter Reed Medal, ASTMH**

- **Guerrant**

- **Walter E Stamm Mentor Award, IDSA**

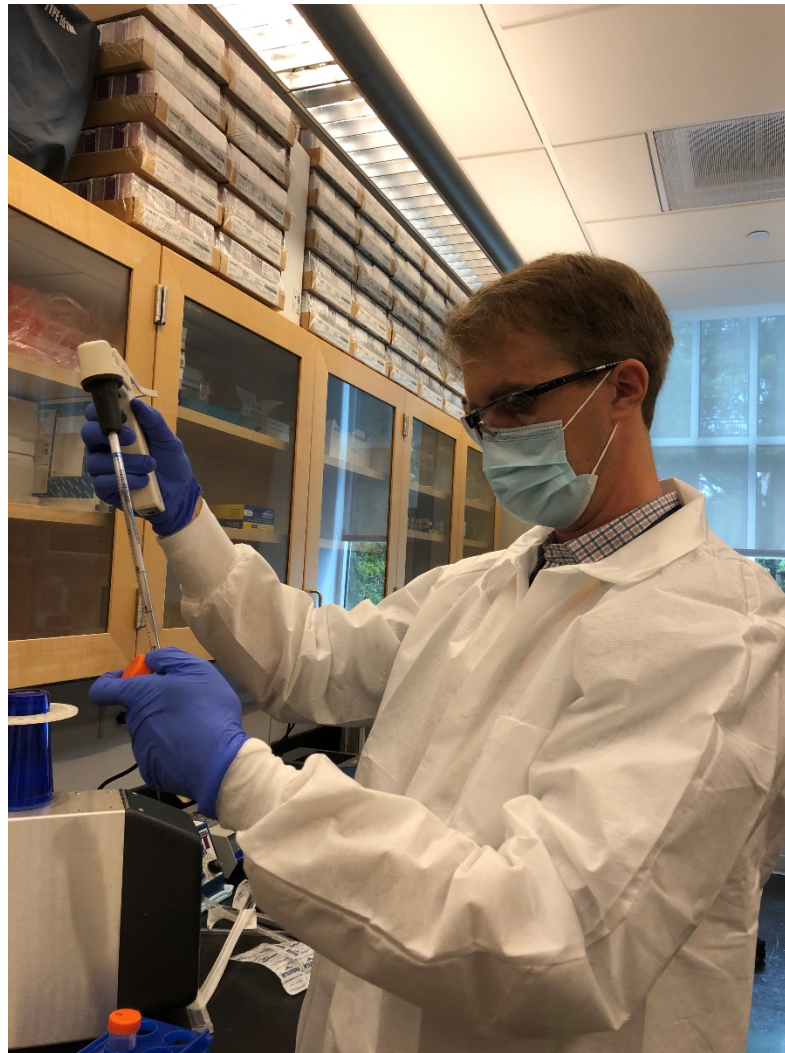
- **Guerrant**

- **Alexander Fleming lifetime achievement award, IDSA**

- **Scheld**

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UVA Infectious Diseases Fellowship Program— The Research Experience

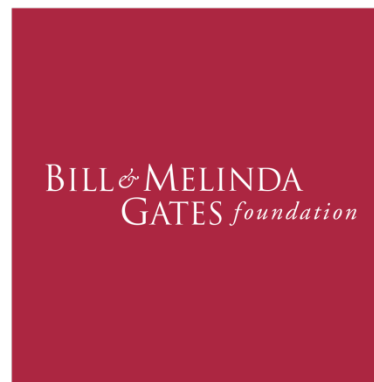


UVa Infectious Diseases Fellowship Program— The Research Experience

- **Research funding**
 - Annual grants and contract awards of **~20 million dollars per year**
 - Highest in the Department, School of Medicine, and University of Virginia



National Institute of
Allergy and
Infectious Diseases



UVA Infectious Diseases Fellowship Program— The Research Experience





UVA Infectious Diseases Fellowship Program— Fellow publications

THE LANCET Global Health



Clinical
Infectious
Diseases



Mucosal Immunology

OFFICIAL JOURNAL OF THE SOCIETY FOR MUCOSAL IMMUNOLOGY



**THE AMERICAN JOURNAL OF
TROPICAL MEDICINE AND HYGIENE**
official Journal of the American Society of
Tropical Medicine and Hygiene

UVa Infectious Diseases Fellowship Program— The Clinical Experience



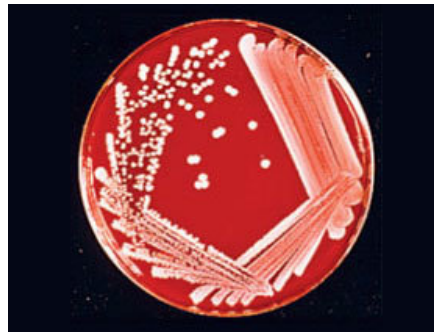
UVA Infectious Diseases Fellowship Program— The Clinical Experience

- **Microbiology laboratory orientation**



Mendy Poulter, PhD

Director of Clinical Microbiology



Amy Mathers, MD

Associate Director of Clinical Microbiology



UVA Infectious Diseases Fellowship Program— The Clinical Experience

- **Inpatient consultations**
 - **General infectious diseases and HIV**
 - **Two clinical fellows**
 - **NP and attending only team**
 - **Improves fellow work flow**
 - **Non-HIV immunocompromised ID
(Solid organ and stem-cell transplant
patients; liquid tumors)**
 - **One clinical fellow and one NP**



UVA Infectious Diseases Fellowship Program— The Clinical Experience

- **COVID-19**
 - **Schedule**—initially modified to limit to two consecutive weeks only on service
 - **Consults**—Typically e-consults (chart review) if consulting and ID teams agree; if PE needed, done by faculty
 - **Remdesivir; lab approval**—faculty team
 - **Clinical trials**—led by faculty with fellow involvement based on interest
 - **ACTT**—Remdesivir RCTs
 - **Convalescent plasma**
 - **Mesenchymal stem cells**
 - **Bio-repository**

UVA Infectious Diseases Fellowship Program— The Clinical Experience

- **Outpatient infectious diseases clinics**
 - **Ryan White HIV clinic**
 - **General infectious diseases**
 - **Transplant**
 - **Travel**
 - **TB & NTM**
 - **Hepatitis C**
 - **Musculoskeletal**
 - **Complicated *Clostridium difficile***
- **Antibiotic stewardship **elective****
- **Dedicated non-fellow OPAT team**

UVa Infectious Diseases Fellowship Program— Learning Opportunities



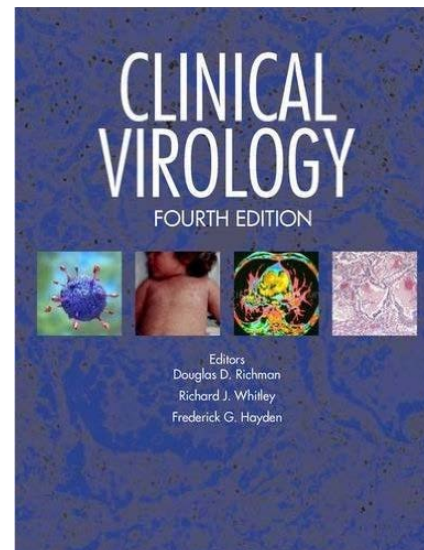
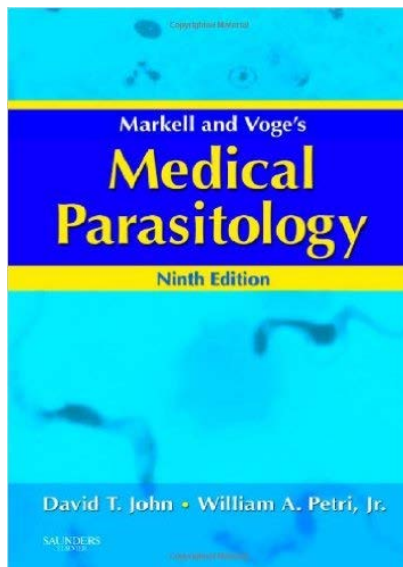
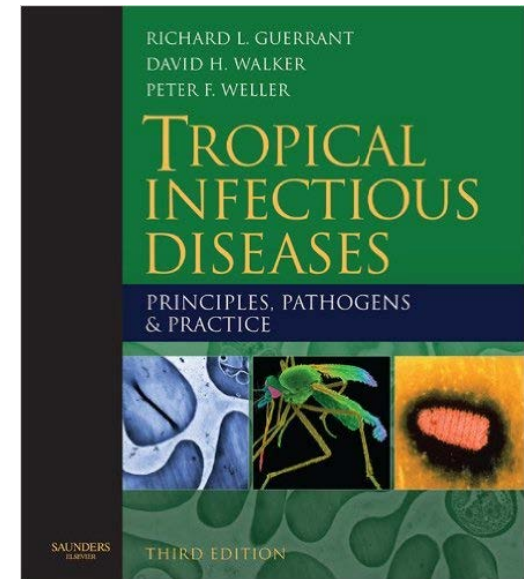
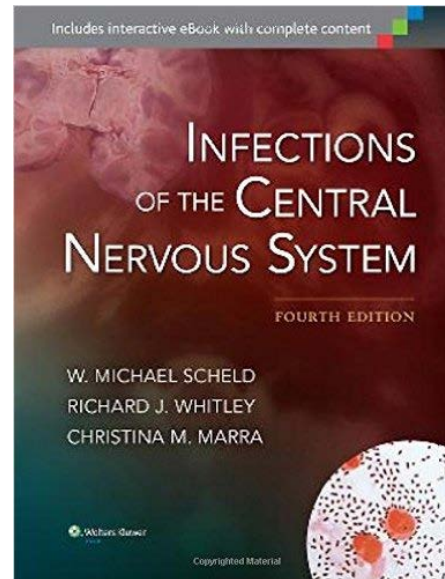
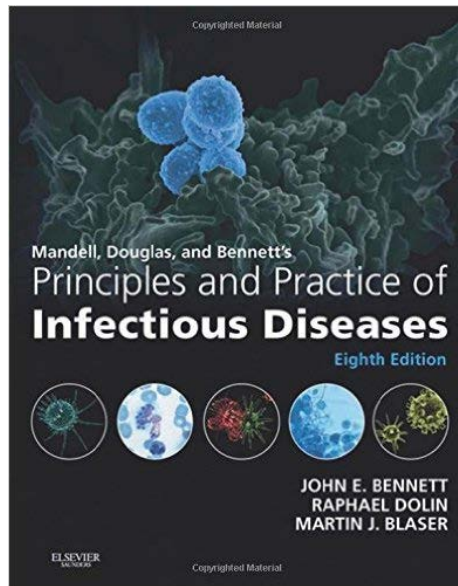
- Case conference
- Didactic conference
- HIV didactic/case conference
- Transplant ID didactic
- Journal club
- Clinical microbiology rounds
- Research seminars
- Research in progress
- Board review course
- Public Health Sciences certificate
- National meetings (eg ID week, ASTMH)
- **ASTMH Diploma Course Certification**



UVa Infectious Diseases Fellowship Program— Learning opportunities

- **Faculty teaching excellence**
 - **Dean's Excellence in Teaching Award**
 - **Dillingham, Houpt, Hughes, Mathers, Sifri, Townsend, Wispelwey**
 - **David A. Harrison Distinguished Educator Award**
 - **Rein, Scheld, Wispelwey**
 - **All University Teaching Award**
 - **Dillingham, Donowitz, Petri, Wispelwey**
 - **Outstanding Faculty Award—State Council of Higher Education, Virginia**
 - **Hewlett, Petri**

UVA Infectious Diseases Fellowship Program— Learning opportunities



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UVa Infectious Diseases Fellowship Program— Learning opportunities



UVa Infectious Diseases Fellowship Program— Current fellows



UVA Infectious Diseases Fellowship Program— Current fellows

Fellow	PGY	Residency	Project	Mentor
Alkabab	6	UVA/ABIM Research Pathway	TB & DM outcomes in Bangladesh/F31 & K23 pending/Burroughs-Wellcome Fellowship Award	Heysell
Campbell	6	U Texas-MB	mHealth for ART adherence	Dillingham
Mohamed	6	U Tennessee	Clinical tuberculosis and diabetes in Tanzania/NIH diversity supplement pending	Heysell
Park	6	UVA	Nosocomial transmission of MDROs/K23 pending	Mathers
Parpia	5	Georgetown	Enteric infections in Tanzanian children/K23 pending	Platts-Mills
Robinson	5	Indiana U	Antimicrobial stewardship	Mathers
Van Aartsen	5	Case Western U	Anti-TB therapy pharmacokinetics/K23 pending	Heysell
Grundy	4	U Texas-Austin	Molecular diagnosis of AFI in Uganda	Houpt
Sasson	4	UVA	SARS-CoV-2 immunity	Petri
Hodges	3	UVA/ABIM Research Pathway	TB, HIV, & SUD linkage to care in Russia	Dillingham



UVa Infectious Diseases Fellowship Program—



UVA Infectious Diseases Fellowship Program—Recent fellows

	Year	Current	Funding
Madden	2020	UVA	Academic faculty/ K08 pending
Sherbuk	2020	U South Florida	Academic faculty
Steiner	2020	Ohio State U	Academic faculty/ Burroughs Wellcome Fellowship Award
Fleece	2019	UAB	Academic faculty
Gray	2019	U Michigan	Academic faculty
Gulleen	2019	U Washington	Post-doc/clinical staff/ T-32 & K08 pending
Schnee	2019	U South Carolina	Academic faculty
Ebers	2018	Arkansas	Private practice
Shin	2017	UVA	Academic faculty/ NIH K08
Cheruvanky	2017	UC Riverside	Academic faculty
Covelli	2017	Western U, CA	Academic faculty
McManus	2017	UVA	Academic faculty/ NIH K08

- Other destinations: **Cleveland Clinic, Columbia, Duke, Johns Hopkins, LSU, Mt. Sinai, MUSC, Northwestern, Pitt, Stanford, Vermont, Wake Forest, Yale**
- **Last 10 years, 19 NIH K grants funded!**

Welcome to Charlottesville



arts

music and more





Small white informational card with illegible text.



sports

u-v-a! go hoos go







food
eat & drink



UVa Infectious Diseases Fellowship Program—



UVA Infectious Diseases Fellowship Program— **Today!**

- **Welcome!**
 - **We hope you enjoy your interactions with faculty and fellows**
 - **We look forward to your questions and comments**
 - **If there is any way that Ginny, Kate, or I can help today or in the future, please let us know**



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UVA Infectious Diseases Fellowship Program— **Stay in touch!**



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