

CURRICULUM VITAE

William A. Petri, Jr., M.D., Ph.D.
Chief, Infectious Diseases and International Health
University of Virginia

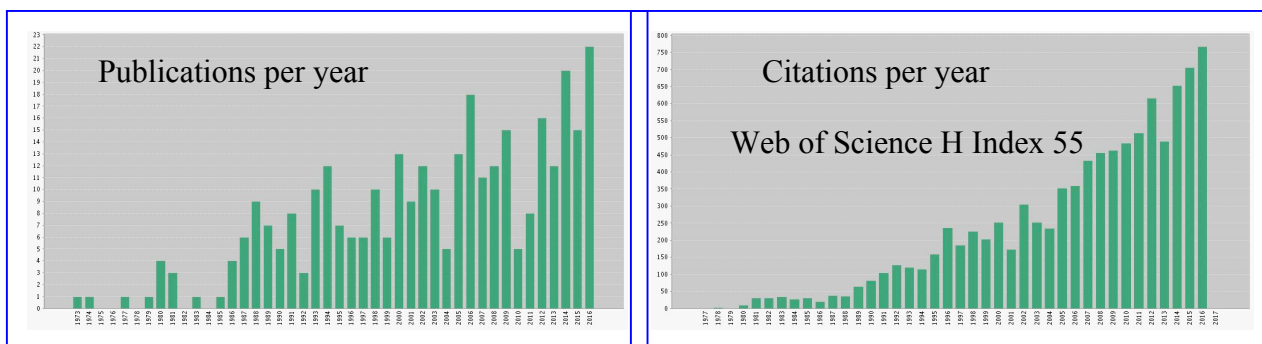


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Personal Information

William A. Petri, Jr., M.D., Ph.D.

University of Virginia Health Sciences Center

345 Crispell Drive

Carter-Harrison Medical Research Building, Room 1709A

Charlottesville VA 22908-1340 USA

Born 12/25/55, Washington D.C.

Married

Spouse: Mary Ann (McDonald) Petri, M.D.

Children: Daniel, David, Sarah, Rachel and Andrew

Nationality: U.S.A.

Education

Undergraduate:

1973 - 1976

University of Wisconsin

Madison, Wisconsin

No degree

Graduate:

1976 - 1982

University of Virginia

Charlottesville, Virginia

M.D., Ph.D.

Graduate Advisor: Robert R. Wagner, M.D.

Residency and Fellowship Training

1982 - 1985

Resident in Internal Medicine

Case Western Reserve University

University and Veterans Hospitals

Cleveland, Ohio

Program Director: Charles C. J. Carpenter, M.D.

1985 - 1988

Fellow in Infectious Diseases

University of Virginia

Charlottesville, Virginia

Program Director: Gerald L. Mandell, M.D.

Military Service

None

Certification and Licensure

Certification

1985

American Board of Internal Medicine

Certification in specialty of Internal Medicine

1988 American Board of Internal Medicine -
Certification in subspecialty of Infectious Diseases

Licensure

State of Virginia 0101-042142
(4/1/88-12/31/18)

National Provider Identifier (NPI)

1104953785

Clinical Privileges

University of Virginia Health System

Sentara Martha Jefferson Hospital

Faculty Positions

1988 - 1992

Assistant Professor of Internal Medicine
and of Microbiology and
Attending Physician in Internal Medicine
Divisions of Infectious Diseases
and Geographic Medicine
University of Virginia

1992 - 1996

Associate Professor of Internal Medicine,
Pathology, and of Microbiology
Attending Physician in Internal Medicine
Associate Director of Clinical Microbiology
Divisions of Infectious Diseases
and Geographic Medicine
University of Virginia

1996 - Present

Professor of Internal Medicine,
Pathology, and of Microbiology
Attending Physician in Internal Medicine
Director of Infectious Diseases Training Program
University of Virginia

2001 – Present

Chief, Division of Infectious Diseases &
International Health
University of Virginia

2003 – Present

Wade Hampton Frost Professor of
Epidemiology

Scientific Activities

Consultancies

2012 -	Perrigo Nutritionals
2015 -	Seres Health
2015 -	International Zinc Nutrition Consultative Group (IZincG)
2016 -	TechLab, Inc.

Academic Activities

2016	Associate Editor, Clinical Infectious Diseases
2014	Peer Reviewer. 2015 Outstanding Faculty Awards, State Council on Higher Education in Virginia
2013-2017	Committee on Elections American Academy of Microbiology
2012-2013	Scientific Committee Seminar on Amebiasis XVII Mérida, Mexico February 27-March 2 nd 2013
2012	F1000 Research Editorial Advisory Group
2012	Team Leader for Diagnostics Diarrheal Diseases Research Gaps & Priorities Programme for Global Paediatric Research
2012	Organizing Committee Amebiasis 2012 Conference Khajuraho, India
2011	External Reviewer Bill & Melinda Gates Foundation Grand Challenges Explorations Phase II Applications
2011	Co-Organizer Keystone Symposium “Malnutrition, Gut-Microbial Interactions and Mucosal Immunity to Vaccines” New Delhi, India November 7-11, 2011
2010 – 2016	Microbiology & Infectious Diseases B Subcommittee (MIDB)

2011 - 2017	Associate Editor PLoS Pathogens
2009 -	Editorial Board F1000 Biology Reports
2008 -	Consultant Dorland's Illustrated Medical Dictionary
2008	Scientific Committee XVI Seminar on Amebiasis February 24-28, 2009 Guanajuato, Mexico
2008 -	Editorial Consultant, Physicians' Information and Education Resource (PIER) American College of Physicians
2007 -	COBRE External Advisory Board University of Vermont
2007 -	External Advisory Committee Infectious Diseases Training Program Ohio State University
2005 –2007	Chair-elect & Chair Division AA, Free Living, Symbiotic and Parasitic Protists, American Society for Microbiology
2007-2008	Member, NHGRI/NIAID NIH Eukaryotic Pathogens and Disease Vectors Target Selection Working Group
2007 - 2008	Eukaryotic Pathogens and Disease Vectors Target Selection Working Group NIAID and NHGRI, NIH
2007 -	Medical Advisory Board TSK Koruyucu Hekimlik Bulteni Turkish Armed Forces Preventive Medicine Bulletin
2006 -	Editorial Board, Parasitology International
2006	Peer reviewer Georgian National Science Foundation
2005 – 2008	Member, NIH Pathogenic Eukaryotes (PTHE)

	Study Section (July 2005-June 2008)
2005 -	American Society of Tropical Medicine and Hygiene Legislative Affairs Committee
2004 -	Scientific Program Committee Mid-Atlantic Microbial Pathogenesis Meeting
2004 - 2005	Institute of Medicine Committee on “Measures to enhance the effectiveness of US quarantine policies in the 21 st century”
2004 - 2005	Howard Hughes Medical Institute Review Panel, International Research Scholars Program in Infectious Diseases and Parasitology
1999 – 2009	Editor, Infection and Immunity
2006 -	Editorial Board Parasite Immunology
2002 – 2003	President, American Society of Tropical Medicine and Hygiene
2001 – 2005	Microbiology & Infectious Diseases Research Committee, NIAID, NIH
2001 - Present	Parasitology Co-Editor (with Dr. John Boothroyd), “Faculty 1000” Current Science Group, London.
1998 – Present	Member, Parasitic Diseases Panel U.S.-Japan Cooperative Medical Science Program
2004	Temporary Member, NIH Pathogenic Eukaryotes Study Section
2004	Temporary Member, NIH Clinical Research and Field Studies of Infectious Diseases Study Section
2003 - Present	Chair, NIH DBBD Minority & Disability Predoctoral Fellowship (F31) Review Committee (3/03, 7/03, 3/05, 7/05, 3/06, 7/06)
2003 – 2006	Presidential Advisory Board American Type Culture Collection

1996 - Present	Editorial Board Parasitology International
1995 - Present	Editorial Board Trends in Molecular Medicine
2002 – 2005	Awards Committee Infectious Diseases Society of America
2001 - 2004	Infectious Diseases Program Directors Committee, Infectious Diseases Society of America
2002	NIAID Blue Ribbon Panel on Bioterrorism and its Implications for Biomedical Research
2000- 2002	Member of the Selection Committee, ASM/NCID Postdoctoral Research Associates Program
2002	Scientific Review Group Global Infectious Diseases Program Ellison Medical Foundation
1992 – 2001	Chairman, Scientific Program Committee, American Society of Tropical Medicine and Hygiene (ASTMH)
1999 – 2002	Scientific Program Committee & Reviewer CDC International Conference on Emerging Infectious Diseases
1999 – 2000	Member, Review Panel for the International Research Scholars Program in Infectious Diseases and Parasitology, Howard Hughes Medical Institute
1996 - 1999	Editorial Board Invasion and Metastasis
1993 - 2001	Board of Scientific Directors, and Chair, Education and Training Committee American Type Culture Collection
1996 - 1999	Scientific Program Committee Infectious Diseases Society of America
1995 - 1997	Administrative Chairman Microbiological and Immunological Sciences

	Review Section Division of Research Grants, NIH
1993 - 1997	Member, Tropical Medicine and Parasitology Study Section, NIH
1994 - 1997	Contributing Editor The Year Book of Pathology and Clinical Pathology
1997	Organizer, Amebiasis Symposium Ninth International Congress of Parasitology Chiba, Japan August 24-28, 1998
1996	Organizer, Session on Intestinal Protozoa XIVth International Congress for Tropical Medicine and Malaria, November 17-22, 1996, Nagasaki, Japan
1995, 1996, 1997	Chair, Microbiological and Immunological Sciences Special Emphasis Panels (NIH)
1992 - 1995	NIH Bacteriology/Mycology Study Section 2, Ad hoc reviewer
1993	Member, NIH Special Review Committee: "Immunologic Interventions in Parasitic Diseases"
1991 - 1993	Co-organizer, Fogarty International Conference on Amebiasis Washington, D.C., 1993
1991 - 1993	Editorial Board, <u>Infection and Immunity</u>
1990 - 1991	Biotechnology and Immunology Study Section, Agency for International Development
<u>Awards:</u>	
2016	Distinguished Scientist Award, University of Virginia
2016	Robert Kadner Award for Graduate Teaching, School of Medicine, University of Virginia
2015	Department of Medicine Award for Mentoring

	University of Virginia
2015	American Journal of Epidemiology 2014 Article of the Year
2015	The Raven Society (honorary society at the University of Virginia)
2014	Outstanding Faculty Award State Council on Higher Education for Virginia (12 awarded annually from faculty nominated from all 70+ Virginia universities and colleges)
2013	Cavalier Appreciation Award (presented at the home football game against Clemson by the Athletic Department)
2013	Dean's Excellence in Faculty Research Award, University of Virginia School of Medicine
2013	2013 All-University Teaching Award University of Virginia
2011	Academy of Distinguished Educators, University of Virginia
2010	Distinguished Mentor Award, Undergraduate Research Program, Department of Biology, University of Virginia
2009 - present	Best Doctors in America
2003	Inventor of the Year Award University of Virginia Patents Foundation (co-award with Dr. Barbara Mann)
2000	Fellow, American Academy of Microbiology
1999	Oswald Avery Award Infectious Diseases Society of America
1996 - 2001	Burroughs Wellcome Fund Scholar in Molecular Parasitology
1995	Outstanding Investigator Award Southern Section American Federation for Clinical Research

1992 - 1995	Burroughs Wellcome Fund New Investigator in Molecular Parasitology
1985 - 1993	Biomedical Research Scholar Lucille P. Markey Charitable Trust
1992	Alpha Omega Alpha (Virginia)
1988	John Horsley Memorial Research Prize University of Virginia School of Medicine
1987	Young Investigator Award Interscience Conference on Antimicrobial Agents and Chemotherapy
1986	Trainee Award American Federation for Clinical Research
1986	Young Investigator Award American Society for Tropical Medicine and Hygiene
1976	Phi Beta Kappa (Wisconsin)

Membership in Professional Societies

2000 – Present	American Academy of Microbiology (Fellow)
1999 - Present	Association of American Physicians
1995 - Present	American Society for Clinical Investigation
1985 - Present	American Society for Microbiology
1985 - Present	American College of Physicians (Fellow 1989)
1985 - Present	Infectious Diseases Society of America (Fellow 1996)
1985 - Present	American Society of Tropical Medicine and Hygiene (Program Committee 1989 - 1991; Chair, Scientific Program Committee 1992-2001; President-elect 2001; President 2002, Charter Fellow 2012, Elected Life Member 2001)

Research Grant Support

Active

R01 AI026649-26 (Petri, PI) 08/01/1989 – 04/30/2017; \$274,425

Role of Leptin in Innate Mucosal Defense from Amebiasis

Malnutrition contributes to an estimated one-third of all deaths among children and 60% of deaths due to diarrhea. This project will identify the mechanism by which lack of the nutritional hormone leptin increases susceptibility to amebiasis, with the potential of more broadly understanding why malnourished children suffer disproportionately from diarrhea.

R01 AI043596-17 (Petri, PI) 09/15/1998 – 08/31/2018; \$278,203

Field Studies of Cryptosporidiosis in Bangladesh

This application proposes a genetic study of the human-pathogen-environment relationship that underlies susceptibility to amebiasis.

R01 AI124214-01 (Petri, PI) 04/01/2016-03/31/2021; \$377,438

Role of Eosinophils in innate protection from *C. difficile*

The aim of this project is to identify how *C. difficile* toxins inhibit eosinophils that otherwise would protect the gut from damage, potentially leading to new treatment or prevention of *C. difficile* colitis.

R21 AI109118-01A1 (Fox; Petri subcontract PI) 08/15/2014 – 07/31/2016; \$62,500

Nanof ormulation of Synergistic TLR Ligands to Enhance Amebiasis Vaccine Efficacy

This project is to explore promising adjuvant formulations to boost cellular and mucosal immunity to *Entamoeba histolytica*.

R21 AI114734-01A1 (Petri, PI) 05/01/2015 – 04/30/2016; \$137,000

Role of IL-23 in the Immunopathogenesis of *C. difficile* colitis

This project is to delineate the mechanism and pathways of IL-23 mediated exacerbation of CDI and provide several potential sites for therapeutic intervention.

R21 AI117626-01A1 (Braciale; Petri subcontract PI) 07/01/2015 – 06/30/2017; \$150,000

This project will obtain critical additional data both in an experimental (murine) model and by inference in the human via SNP analysis which is necessary for a more detailed future analysis of leptin/leptin receptor signaling in IAV infection.

U01 AI110435-01A1 (Reed; Petri subcontract PI) 05/01/2015 – 04/30/2017; \$50,000

Phase IIa Clinical Trial of the Reprofiled Drug Auranofin for GI Protozoa

This project involves the design and implementation of real time PCR diagnostics for detection of *Entamoeba histolytica* in fecal DNA, to measure the efficacy of new drug intervention in the treatment of amebiasis and giardiasis.

Grant # OPP1017093 (Petri, PI) 11/16/2010 – 11/30/2018

Bill and Melinda Gates Foundation \$520,129

Exploration of the Biologic Basis for Underperformance of OPV and Rotavirus Vaccines in Bangladesh and India

This project is to identify why oral poliovirus and rotavirus vaccines are significantly less effective in the developing world. We are seeking to develop new approaches to protect children from enteric diseases.

Subcontract to OPP1100514 (Faruque, Petri subcontract PI) 03/25/2014 – 03/31/2017

Bill and Melinda Gates Foundation \$250,000

Morbidity Burden from Cryptosporidiosis at GEMS - Bangladesh

This project is to examine the extrinsic role of maternal sIgA in protection against cryptosporidium and the intrinsic role of host genotype.

Subcontract to OPP1111625 (Nelson, Petri subcontract PI) 10/01/2014 – 08/31/2017

Bill and Melinda Gates Foundation \$113,359

Development of a test battery to evaluate brain and cognitive function in the first 2 years of life suitable for deployment in low income countries. The primary goal is to elucidate the neural correlates that are associated with exposure to early biological and psychological adversities.

Grant # OPP1125451 (Petri) 01/20/2015 – 01/31/2017

Bill and Melinda Gates Foundation \$903,875

Assessment of Community Transmission of Sabin Type 2 Virus in Bangladesh

The primary goal is to fill in existing knowledge gaps of the dynamics of Sabin virus transmission and for the formulation of appropriate outbreak response strategies post OPV-2 or all-OPV cessation.

Grant # OPP1127782 (Kirkpatrick; Petri subcontract PI) 10/01/2015 – 09/30/2017

Bill and Melinda Gates Foundation \$200,000

Improving Rotavirus Vaccination: Refining Correlates of Protection and Evaluating Durability

This project involves the study and analysis of enterovirus and microbiota data as they relate to Rotarix failure and Rotarix immunogenicity.

OPP1136759 (Ahmed; Petri subcontract PI) 12/01/2015-11/30/2019

Bill and Melinda Gates Foundation \$864,810

The Bangladesh Environmental Enteric Dysfunction (BEED) Study

This project involves the validation of non- invasive biomarkers of Environmental enteric dysfunction (EED) and identification of potential biological pathways for interventions to control EED and stunting.

Grant # OPP1127192 (Duggal; Petri subcontract PI) 05/28/2015 – 06/19/2017

Bill and Melinda Gates Foundation \$101,433

Transmission of Cryptosporidiosis in Rural and Urban Bangladesh

This project involves the design and implementation of real time PCR diagnostics for detection of *Cryptosporidium spp* in fecal DNA, to be used in the differentiation of household transmission vs the *Cryptosporidium* species reservoir potentially present in other human and animal contacts or to identify cases of water-to-household transmission.

Metabolomics Award (Nielsen; Petri subcontract PI) 12/01/2015-5/31/2016

Chalmers Institute \$93,000

This project involves the metabolomics analysis of plasma samples from 25 malnourished and 25 well nourished children at 40, 53 and 104 weeks.

Seres Therapeutics (Petri PI) \$128,476
Role of IL-25 and Eosinophils in Ecobiotic-Induced Protection from *C. difficile* colitis (CDI). This project will study the potential of IL-25 inducing bacteria to prevent CDI.

TechLab, Inc (Petri, PI) \$75,000
Detection of eosinophils as a gut health biomarker.

5 T32 AI07046-41 Petri (PI) 7/01/96-6/30/22
NIH/NIAID
Infectious Diseases Training Program
This program, led since 1996 and competitively renewed five times by Dr. Petri, provides training in infectious diseases to 5 postdoctoral and 5 predoctoral fellows.

5 T32 AI055432-13 Petri (PI) 7/01/03-7/31/18
NIH/NIAID
Biodefense Research Training and Career Development
This program, founded and competitively renewed twice by Dr. Petri, provides training in biodefense to 2 postdoctoral and 3 predoctoral fellows.

1 T35 AI060528 Petri (PI) 6/01/03-5/31/14
NIH/NIAID
“Biodefense Short Term Training for Minority Students”
This program, founded and competitively renewed twice by Dr. Petri, provides a summer research internship for 8 medical students from underrepresented minorities.

Students and Fellows Trained

Zannatun Noor, B.S. - Graduate student in Microbiology, Immunology & Cancer Biology (2010-2016). Ph.D. dissertation entitled “Mucosal defense mechanisms against amebic colitis”. Currently Assistant Scientist, International Centre for Diarrhoeal Disease Research, Dhaka, Bangladesh.

Robin Uchiyama, Ph.D. – Postdoctoral Fellow (2015-2016). Project entitled “Role of Epigenetic Silencing of the Anti-inflammatory Protein LRP-1 in the Inflammation of Malnutrition”. Awarded a Hartwell Foundation Individual Postdoctoral Fellowship, declined in order to assume the position of Scientific Expert, Qiagen, Inc.

Shannon Moonah, M.D. - Postdoctoral Fellow (2012-2016). Project entitled “Role of MIF in the inflammatory response to amebic colitis”. Recipient of the Harold Amos Medical Faculty Development Program (AMFDP) Award 2015-2019 and recipient of an NIH K08 mentored clinical scientist development award. Currently Assistant Professor of Medicine, University of Virginia.

Erica Buonomo, B.S. - Graduate student in Microbiology, Immunology & Cancer Biology (2011-2016). Ph.D. dissertation entitled: “Modulation of Immune Responses Dictates the Severity of *Clostridium difficile* Infection”. Recipient of an individual NIAID predoctoral fellowship and currently co-PI of a grant from Seres Therapeutics. Currently Scientist, Evelo Biosciences, Cambridge MA.

Chelsea Marie, Ph.D. – Hartwell Foundation Postdoctoral Fellow and individual National Research Service Award (2009-2016). Project entitled “Role of leptin in intestinal epithelium innate defense against amebiasis”. Recipient of an individual NIAID postdoctoral fellowship, a Hartwell Fellowship, Gates Grand Challenges grant and NIH R21. Currently Assistant Professor of Medicine, University of Virginia.

Shaun Steele, Ph.D. – Postdoctoral Fellow (2015-2016). Project entitled “Regulation of IL-25 Production from the Intestinal Epithelium by the Gut Microbiota”. Awarded but declined a PhRMA Foundation Individual Postdoctoral Fellowship in order to accept position at the School of Veterinary Medicine, Washington State University, Pullman, Washington.

Carrie Cowardin, B.S. - Graduate student in Microbiology, Immunology & Cancer Biology (2011-2015). Ph.D. dissertation entitled: “The Immunopathogenesis of *Clostridium difficile* and its Toxins”. Recipient of the Wagner Predoctoral Fellowship. Currently postdoctoral fellow with Jeff Gordon MD, Washington University in St. Louis. In 2017 named one of the “Forbes 30 under 30 Healthcare” leaders in recognition of her PhD dissertation research.

Caitlin Naylor, B.S. - Graduate student in Microbiology, Immunology & Cancer Biology (2010-2015). Ph.D. dissertation entitled: “Malnutrition and the Immune Response: Understanding the Biology of Nutrition-related Immune Response”. Awarded an MRC Postdoctoral Fellowship and currently a postdoctoral fellow with Andrew Prentice, London School of Hygiene and Tropical Medicine.

Katherine Ralston, Ph.D. – Life Sciences Research Fellow and Hartwell Foundation Postdoctoral Fellow (2009-2014). Project entitled: “Molecular Mechanisms of Cell Killing by *Entamoeba histolytica*”. Awarded an NIH K22 in 2014, and a Pew Scholar in Biomedical Sciences in 2016. Assistant Professor, Microbiology & Molecular Genetics, University of California-Davis since August 2014.

Poonum S. Korpe, M.D. - Postdoctoral Fellow (2011-2014). Project entitled “Natural history and immune response to cryptosporidiosis in children in Bangladesh”. Awarded an NIH K23 and a Gates Foundation grant to study cryptosporidiosis and appointed an Assistant Scientist, Department of Epidemiology with a joint appointment in the Division of Infectious Diseases, Johns Hopkins Bloomberg School of Public Health, August 2014.

Rajat Madan, M.D., Ph.D. - Postdoctoral Fellow (2011-2014). Project entitled “Role of leptin in enteric immune defense from *C. difficile*”. Awarded an NIH K08 and appointed in 2014 as an Assistant Professor of Medicine, University of Cincinnati.

Ibne Karim M. Ali, Ph.D. – Postdoctoral Fellow in Medicine (2007-2013). Project entitled “Strain-specific differences in virulence within *E. histolytica*”. Currently Senior Service Fellow and Principal Investigator for the Free-living Amebas Laboratory, CDC, Atlanta GA.

Nicole Lawrence, Ph.D. – Postdoctoral Fellow (2010-2013). Project entitled “Characterization of the Host Receptor for Amebiasis”. Currently Research Scientist, active pharmaceutical ingredient, technical service and manufacturing science with Eli Lilly, Indianapolis IN.

Tricia Royer, D.O. – Postdoctoral Fellow (2010-2013). Project entitled “Role of leptin in innate mucosal defense”. Currently on the faculty of the Lehigh Valley Health Network Pennsylvania as an Infectious Diseases Subspecialist.

Nathaniel Christy, B.S. - Graduate student in Microbiology (2007-2013). Ph.D. dissertation “Studies into the Pathogenic Role of *E. histolytica* TMK39”. Currently Lieutenant in the US Navy and Microbiologist, Naval Medical Research (NEPMU-5), San Diego CA.

Tania Thomas, M.D. – Postdoctoral Fellow (2009-2012). Ph.D. dissertation entitled: “Effect of tropical enteropathy on childhood oral vaccine effectiveness”. Awarded a K23 and currently Assistant Professor of Medicine, University of Virginia (secondary, with Eric Houpt primary mentor).

Cynthia Snider, M.D. – Postdoctoral Fellow (2008-2011). Project entitled “Human respiratory virus surveillance in children in Dhaka, Bangladesh”. Currently in private practice of infectious diseases, North Carolina.

Alicia Linford, B.S.— Graduate student in Microbiology (2004-2011). Project entitled “Studies of the Pathogenesis of Amebiasis, Including Characterization of a Low Molecular Weight Protein Tyrosine Phosphatase”. Currently postdoctoral fellow with Dr. David Auble, Department of Biochemistry and Molecular Genetics, University of Virginia.

Xiaoti Guo, B.S. - Graduate student in Microbiology (2007-2010). Ph.D. dissertation entitled: "Host Immunity to Intestinal Amebiasis". Currently an Application Scientist for fluorescence activated cell sorting, BioRad.

Sarah Buss, B.S. - Graduate student in Microbiology (2005-2010). Ph.D. dissertation entitled: "Transmembrane kinases of *Entamoeba histolytica*". Awarded an Emerging Infectious Diseases Fellowship from the CDC. Currently Director of the Wyoming Public Health Microbiology Laboratory, Cheyenne, Wyoming.

Heriberto Moreno, B.S. – Graduate student in Microbiology (2002-2009). Ph.D. dissertation entitled: "Studies on the Ca²⁺-Dependent Regulation of URE3-BP, a Transcription Factor of *Entamoeba histolytica*: Identification and Characterization of the Plasma Membrane-Binding Partner EhC2A". Currently practicing intellectual property law in the biomedical sciences, law firm of McCarter & English, Boston MA.
hmorenoaquino@mccarter.com

Kristine Peterson Matson, M.D. – Postdoctoral Fellow (2004-2007). Project entitled "Genes influencing human susceptibility to amebiasis". NIH K08 awardee and now Associate Professor of Infectious Diseases at the University of Wisconsin-Madison.

Shinjiro Hamano, M.D., Ph.D. – Visiting Professor from Kyushu University (2004-2006). Project entitled: "Immunopathogenesis of amebiasis in the C3H/HeJ murine model". Currently Professor, Department of Parasitology, Institute of Tropical Medicine, Nagasaki University, Japan.

Douglas Boettner, B.S. – Graduate student in Microbiology (2002-2007). Ph.D. dissertation entitled: "Understanding Erythrophagocytosis by the Protozoan Parasite *Entamoeba histolytica*". Individual NRSA postdoctoral fellowship recipient and currently Research Assistant Professor, University of Cincinnati.

David Beck, B.S. – Graduate student in Microbiology (2000 - 2005). Recipient of the year 2000 Veridian Pacific-Sierra Research Scientific Merit Scholarship, and recipient of a Dean's fellowship from the University of Virginia. Ph.D. dissertation entitled: The Structure, Function and Expression of the Gal/GalNAc Lectin and Virulence Proteins of *Entamoeba histolytica*. Currently Assistant Professor of Biology, Tennessee Tech University, Cookeville TN.

Christopher D. Huston, M.D. – Postdoctoral Fellow in Infectious Diseases (1998 - 2003). Project entitled "Apoptotic killing of host cells by *Entamoeba histolytica*". 1999 Recipient of a 3 year Howard Hughes Postdoctoral Fellowship for Physicians. 1999 Young Investigator Award from the American Society of Tropical Medicine and Hygiene. NIH K08 and R01 recipient and currently tenured Associate Professor of Medicine, University of Vermont.

Eric Houpt, M.D. – Fellow in Infectious Diseases (1999-2002). Project entitled: "Mouse model of mucosal immunity to *Entamoeba histolytica* infection". NIH K08 and R01 recipient and currently Gwaltney Chair of Infectious Diseases, and Vice Chair of Medicine, University of Virginia.

Mehmet Tanyuksel, M.D. – Visiting Professor in Infectious Diseases (12/2000-11/30/2001). Professor of Medical Parasitology, Dept. Microbiology and Clinical Microbiology, Gulhane Military Medical Academy, Ankara, Turkey.

Patrick Ayeh-Kumi, M.Phil. , B.Sc., Ph.D. - Visiting Professor of Infectious Diseases (9/1/99-8/31/01). Currently Dean, School of Allied Health Sciences, University of Ghana Medical School, Accra, Ghana.

Joanna M. Schaenman, B.S. - Medical scientist training program (MSTP) graduate student in Microbiology (1995 - 2000). Ph.D. dissertation entitled: "Regulation of the *Entamoeba histolytica* Virulence Gene *hgl5*: Identification of Two Sequence-Specific DNA Binding Proteins that Recognize the Upstream Regulatory Element URE4". Recipient of an NIH graduate student research supplement for underrepresented minorities. Currently Assistant Professor of Medicine, Infectious Diseases, at UCLA.

Upinder Singh, M.D. - Fellow in Infectious Diseases (1995-1998); project entitled: "Novel control of gene expression by core promoter in *E. histolytica*" 1998 Recipient of the Burroughs Wellcome Career Award in the Biomedical Sciences, and an NIH K08 Award and R01 Principal Investigator. 1997 Young Investigator Award from the American Society of Tropical Medicine and Hygiene. Currently Associate Professor with tenure and Chief of Infectious Diseases, Department of Medicine, Stanford University.

James M. Dodson, B.S. - Graduate student in Microbiology (1991 - 1998); Ph.D. dissertation entitled: "Identification of a Carbohydrate Recognition Domain in the *Entamoeba histolytica* Gal/GalNAc Lectin" Formerly staff scientist at Stanford Research Institute, Palo Alto CA and now an independent play writer in Alexandria, Virginia.

Randy Vines, B.S. - Graduate student in Microbiology (1993 -1998); Ph.D. dissertation entitled: "Control of *Entamoeba histolytica* Adherence Lectin Activity by Inside-Out Signaling". Currently Manager, Federal Business Development, American Type Culture Collection.

Suman Dhar, Ph.D. - Postdoctoral Fellow (1997 -1998), project entitled "DNA replication in *Entamoeba histolytica*". Currently tenured Professor, and Director of the Center for Molecular Medicine, Jawaharlal Nehru University, New Delhi, India.

Girija Ramakrishnan, Ph.D. - Postdoctoral Fellow (1993 - 1997). R01 Principal Investigator and currently Assistant Professor of Medicine, University of Virginia.

Jay Purdy, B.S. - Medical scientist training program (MSTP) graduate student in Microbiology (1991-1995); Ph.D. dissertation entitled: "Analysis of Gene Regulation in *Entamoeba histolytica*". 1994 Young Investigator Award from the American Society of Tropical Medicine and Hygiene. M.D. 1997; currently Senior Director and Medicines Development Lead at Pfizer, Inc, Philadelphia.

James McCoy, B.S. - Graduate student in Microbiology (1988-1993); Ph.D. dissertation entitled: "Structural Analysis of the Light Subunit of the *Entamoeba histolytica* Galactose-specific Lectin". Currently independent science editor and writer, Charlottesville Virginia.

Stacy Jones Calloway B.S. – Masters student in Microbiology (1999-2001). Project entitled "In vitro Transcription in *E. histolytica*" Graduated with an MS in Microbiology.

Graduated with PharmD at the University of Maryland and is currently (2006) in the general practice/ primary care residency at the Baltimore VA Medical Center.

Linda Saffer, Ph.D. - Research Associate (1989-1991); Program Manager, University Programs, Maryland Technology Development Corporation (TEDCO).

Lucia Braga, M.D. - Visiting Assistant Professor from the University of Fortaleza Brazil (1990-1992); currently Associate Professor of Gastroenterology, Clinical Research Unit - Department of Internal Medicine - Federal University of Ceará, Fortaleza, Ceará, Brazil

Carol Gilchrist, Ph.D. – Research Associate (1995 - 2003). Project entitled: “Characterization of a negative regulatory element in gene expression in *Entamoeba histolytica*”. Currently Assistant Professor of Medicine, University of Virginia.

Barbara Mann, Ph.D. – Postdoctoral Fellow (1988-1989); currently Associate Professor of Medicine (tenured), Wyeth-Ayerst Professor of Infectious Diseases, University of Virginia.

(2) Current Students and Fellows

Amanda E. Schnee, M.D. – Postdoctoral Fellow (2016-). Project entitled “Campylobacter jejuni infection and intestinal inflammation”.

Jeffrey Donowitz, M.D. – Postdoctoral Fellow (2014-). Project entitled “Role of Small Intestine Bacterial Overgrowth in Infant Malnutrition in Low-Income Countries”. Recipient of a Pediatric Scientist Development Program postdoctoral fellowship.

Stacey Burgess, Ph.D. – Postdoctoral Fellow (2013-). Project entitled “Segmented filamentous bacteria and the mucosal immune response to *E. histolytica*”.

Koji Watanabe, M.D., Ph.D. – Visiting Professor (2015-2017). Project entitled “Role of the microbiome in susceptibility to amebiasis”.

Allissia Gilmartin, B.S. - Graduate student in Microbiology, Immunology & Cancer Biology (2013-present). Project entitled “Trogoncytosis by *Entamoeba histolytica*”. Recipient of an NIH F30 individual NRSA 1 F30 AI114136-01A1

Mahmoud Saleh, B.S. - Graduate student in Microbiology, Immunology & Cancer Biology (2015-present). Project entitled “Gut microbiota-bone marrow communication and gut inflammation in *C. difficile* colitis”.

Alyse Frisbee, B.S. - Graduate student in Microbiology, Immunology & Cancer Biology (February 2016-present). Project entitled “Role of CDT toxin in pathogenesis of *C. difficile*”.

Md. Jashim Uddin, B.S. - Graduate student in Pathologic Mechanisms of Disease (2016-present). Project entitled “Sabin 2 poliovirus environmental persistence”

Teaching Activities

Reflective teaching statement/philosophy

I believe that the first cornerstone of learning for a student is interest in, and enthusiasm for, a subject. It is interest that motivates an individual to learn, and ultimately only by the self-teaching that comes from enthusiasm for a subject is knowledge and understanding garnered. The first emphasis therefore of my teaching is transmitting why an area of science or medicine is interesting and important.

The second cornerstone of learning is mutual respect between teacher and learner. This involves breaking the barrier between teacher and student by getting to know the student as an individual, showing respect for their interests and ideas, and promoting an atmosphere of active discussion.

The third cornerstone of teaching is providing the student an approach to learning and discovery. In science this includes formulation and testing of a hypothesis, and the critical analysis of experimental design and interpretation of data. In medicine this includes providing a grasp of basic pathophysiology of organ dysfunction, instruction on formulation of a differential diagnosis, and plan for treatment. Now nearly 35 years into my career as a physician-scientist, I appreciate that little of the information that I “know” today was taught to me in a class. In contrast the approach to learning taught by my professors is what persists and enables me to be a successful and life-long student.

The final cornerstone is to impart the information that provides the basis for a fundamental understanding of the subject area. With interest in a subject and mutual respect of teacher and learner established, and finally with the student having been taught an analytic approach to the subject, the student is prepared to incorporate “data” conceptually and broadly. This includes providing to the student the current concepts or paradigms, and accepted approach, to practice or research in the subject area. This needs to be done not only with the most up-to-date and accurate information, but also with a perspective on what is not known, and on how what is thought to be known may be incorrect. Imparting an added appreciation of areas that are not black and white but where differing opinions exist is especially challenging and of value.

It is important at every stage of teaching to provide information in a way that different learning styles can be accommodated. The major ways of transmitting information include speaking, writing and visual depictions of information. Practically this entails speaking clearly about a subject, providing reading materials, and visually depicting key concepts or pieces of information through figures or photographs or diagrams.

Active engagement of the student is essential to the process of learning. Ironically the danger in the use of technology in the classroom is its potential to promote passive learning. Power point presentations without discussions, and all-inclusive lecture notes, come to mind as techniques that easily lead to passive learning. In contrast promotion of learning comes from the act of writing notes, discussions, questions and answers, and the participation of the students as teachers for the class

SECTION 1. INTRODUCTORY STATEMENT

I am a member of the Department of Medicine faculty, with joint appointments in the Departments of Microbiology, Immunology and Cancer Biology, and Pathology, and I am Chief of the Division of Infectious Diseases and International Health. My clinical specialty is internal medicine with a subspecialty in infectious diseases. My research is in

international health and includes molecular parasitology and clinical research on enteric infections, malnutrition and vaccine responses in children in Bangladesh, and studies of the emerging pathogen *Clostridium difficile*.

My teaching responsibilities include guiding the research career development of postdoctoral and predoctoral fellows, medical students and undergraduates in my lab, precepting house staff and medical students on inpatient medicine and infectious diseases service, serving as a fellow in the Hereford Residential College at UVa and serving as the Principal Investigator for two NIH T32s and one T35 in the disciplines of infectious diseases and biodefense.

SECTION 2. CONTRIBUTIONS AS AN EDUCATOR

A. Direct Teaching Activities

Founder in 2003 and leader since that time of the Biodefense Training Program at UVa, supported by an NIH T32 grant for which I am PI and that provides support for 3 predoctoral and 3 postdoctoral fellows.

Founder in 2003 and leader of the Summer Research Internship Program in Biodefense and Emerging Infections at UVa, supported by an NIH T35 grant for which I am the PI (Joel Hockensmith co-PI) and that provides support for 8 students.

Leader of the Infectious Diseases Training Program at UVa since 1996, supported by an NIH T32 grant for which I am PI that and provides support for 5 predoctoral and 7 postdoctoral fellows.

Attending on general medical wards, University of Virginia Hospital, 2 months/year, 320 hours/year (1988 – Present)

Attending on infectious diseases consult service of the University of Virginia Hospital, 1 month/year, 160 hours/year

Lecturer for Microbiology 810 "Microbial Pathogenesis", 3 hours of lecture/year (2nd year graduate students) lecture/year (2nd year graduate students) (1989-present)

Lecturer for Microbiology 803 "Fundamental Immunology", 2 hours of lecture/year (2nd year graduate students) (1995-present)

Discussion leader for Infectious Diseases Section of Introduction to Clinical Medicine, 4 hours of discussion/year (1989-present)

B. Teaching Awards

State Council on Higher Education of Virginia Outstanding Faculty Award 2014

All-University Teaching Award, University of Virginia, 2013

Exemplary Mentor Award, Quality of Life Research Center, Claremont University, 2013

Nominee for the National Postdoctoral Association Mentor Award, 2013

Distinguished Mentor Award for the Undergraduate Research Program of the Department of Biology, University of Virginia (in recognition of supervising undergraduate independent research), 2010.

Elected to membership in the Academy of Distinguished Educators, University of Virginia School of Medicine, 2011

C. Curriculum and Material Development

Founder of the Biodefense Training Program for pre- and postdoctoral fellows at the University of Virginia, including developing a new course in biodefense (BIMS 834), leading a biodefense research in progress program, and obtaining an NIH T32 grant.

D. Learner Assessment

Development of survey instruments to assess the effectiveness of the pre- and post-doctoral Biodefense and Infectious Diseases training programs, as well as the preparation of examinations for classes.

E. Educational Scholarship / Creation of Enduring Educational Materials

Author of one textbook: John DT, Petri WA Jr. Markell and Voge's Medical Parasitology, 9th Edition. Elsevier, 2006.

Author of approximately 200 chapters and invited reviews (as well as more than 100 original research publications)

F. Educational Administration and Leadership

Principal Investigator of the NIH T32-supported Infectious Diseases Training Program (5 MD or PhD and 5 predoctoral fellows; 1996-present);

Founder and Principle Investigator of the NIH T32-supported Biodefense Training Program (1 PhD and 3 predoctoral fellows; 2003-present);

Founder and Principle Investigator of the NIH T35-supported Summer Research Internship Program in Infectious Diseases and Biodefense for under-represented minorities (8 medical students each summer; 2004-present; Petri currently co-PI with Dr. Hockensmith on competing renewal);

G. Professional Development in Education

Development as a professional educator has come predominantly from assessment of my teaching by students and faculty, seeking advice from highly successful teachers at the University of Virginia and elsewhere, and continuing to strive to do my very best.

H. Mentorship and Guidance

Institutional mentoring activities include leading the Infectious Diseases and Biodefense Training Programs that support 5 MD, 4 PhD and 8 graduate students, as well as the Summer Research Internship Program for Infectious Diseases and Biodefense that support 8 undergraduate students from under-represented minority groups. Mentoring in this setting involves some one-on-one discussions with trainees as well as providing feedback to trainees at research-in-progress and journal clubs.

Mentoring of individuals in my laboratory currently includes four graduate students and ten postdoctoral fellows (two of whom are independently supported by individual fellowships). All are successfully engaged in research.

Ten students have received PhDs from my laboratory and they have averaged > 2 first authored papers from their dissertations. Three PhD graduates are currently conducting postdoctoral fellowships, 4 are in scientific positions in industry, and 3 are members of medical school faculties. One student received an MS in lieu of a PhD (due to family and not academic reasons).

The seven MD or MD/PhD fellows who have graduated from the lab are all on medical school faculties, with 3/7 currently holding R01 grants (all tenured – one each at UVa, Stanford and U. Vermont) and 4 having received K08 awards.

The seven PhD fellows who have graduated from the lab include 5 on medical school faculties (two that are or were PIs for R01s), one in industry and one in a 2nd postdoctoral fellowship.

Undergraduate and medical students are always a part of the lab, conducting honors thesis work and summer research projects respectively. I am committed to providing these experiences in research, as this is how all of us in science got our start.

Research Interests

1. Colitis due to *Entamoeba histolytica*: I have a three decade-long research program in amebiasis. This started as a postdoctoral fellow with the identification of the Gal/GalNAc-binding lectin of the parasite *Entamoeba histolytica* that mediates contact-dependent killing of host cells. I developed antigen-detection tests for amebiasis that are FDA-approved, and in a 10 year study of 300 children in Bangladesh discovered that amebiasis occurred in nearly every child. Not only diarrhea but also malnutrition and cognitive dysfunction were consequences of amebiasis. A single amino acid polymorphism in the receptor for leptin, present in nearly half of children, was discovered to control human susceptibility to infection. Most recently we have identified that the parasite kills human cells via a unique cell biologic process that we have termed “amebic trogocytosis”, and discovered that potassium channels are key participants in death of the host.
 - a. Ralston KS, Solga MD, Mackey-Lawrence NM, Somlata, Bhattacharya A, Petri WA Jr. (2014) Trogocytosis-like ingestion by *Entamoeba histolytica* contributes to human cell killing and tissue invasion. *Nature* 508:526-530. PMID: PMC4006097
 - b. Burgess S, Buonomo E, Cowardin C, Naylor C, Noor Z, Wills-Karp M, Petri WA Jr. (2014) Bone marrow dendritic cells from mice with an altered microbiota provide IL-17A-dependent protection from *E. histolytica* colitis. *mBio* 5:1-8. PMID: PMC4222101
 - c. Marie, C, Verkerke, HPV, Theodorescu, DT, Petri, WA Jr. (2015) A whole-genome RNAi screen uncovers a novel role for human potassium channels in cell killing by the parasite *Entamoeba histolytica*. *Scientific Reports* 5, 13613, PMID: PMC4561901
 - d. Gilchrist CA, Petri SE, Schneider BN, Reichman DJ, Jiang N, Begum S, Watanabe K, Jansen CS, Elliott KP, Burgess SL, Ma, JZ, Alan M, Haque R, Petri WA Jr. (2016) Role of the gut microbiota of children in diarrhea due to the protozoan parasite *Entamoeba histolytica*. *J Infectious Diseases*, 213:1579-85. PMID: PMC4837909
2. Impact of infection on child health in low income countries: I started my career of independent investigation in molecular parasitology, an area of investigation that continues today. Child health as intrinsically part of the equation as the molecular parasitology work moved into human populations. It is through work with infants in the urban slums of Dhaka and Kolkata, initially started to study amebiasis, that I have been convicted of the importance of the health consequences of growing up in an environment of intense infectious disease pressure. We have focused on the impact on gut health of the multiple enteric infections that these children suffer. At any one time the average infant is infected with 2-4 different pathogens in their gut. We have shown that these children have gut and systemic inflammation and abnormal intestinal barrier

function. In collaboration with Jeff Gordon's group at Washington University we have shown that children in this environment have abnormal maturation of the gut microbiota that is in turn associated with malnutrition. We are incorporating febrile illness and acute respiratory infection in our surveillance and have already shown in a collaboration with Emily Gurley at icddr,b that indoor air pollutants are associated with an earlier age of acute respiratory infection. Current work includes measuring the consequences of infection on nutrition and child development, and continuing our study of host determinants of susceptibility to enteric infection.

- a. Subramanian S, Huq S, Yatsunenko T, Haque R, Mahfuz M, Alam MA, Benezra A, DeStefano J, Meier MF, Muegge BD, Barratt MJ, VanArendonk LG, Zhang Q, Province MA, Petri WA Jr, Ahmed T, Gordon JI. (2014) Persistent gut microbiota immaturity in malnourished Bangladeshi children. *Nature* 510:417–421. PMID: PMC4189846
 - b. Gurley ES, Salje H, Homaira N, Ram PK, Haque R, Petri WA Jr, Breeze J, Moss WJ, Luby SP, Breysse P, Azziz-Baumgartner E. (2014) Indoor exposure to particulate matter and age at first acute lower respiratory infection in a low-income, urban community in Bangladesh. *Am J Epidemiology* 2014; doi: 10.1093/aje/kwu002. PMID: PMC3966716
 - c. Naylor C, Lu M, Haque R, Mondal D, Buonomo E, Nayak U, Mychaleckyj JC, Kirkpatrick B, Colgate R, Carmolli M, Dickson D, van der Klis F, Weldon W, Steven Oberste M; PROVIDE study teams, Ma JZ, Petri WA Jr. (2015) Environmental Enteropathy, Oral Vaccine Failure and Growth Faltering in Infants in Bangladesh. *EBioMedicine*. 2015 Sep 25;2(11):1759-66. PMID: PMC4740306
 - d. Donowitz JR, Haque R, Kirkpatrick BD, Alam M, Lu M, Kabir M, Kakon SH, Islam BZ, Afreen S, Musa A, Khan SS, Colgate ER, Carmolli MP, Ma JZ, Petri WA Jr. (2016) Small Intestine Bacterial Overgrowth and Environmental Enteropathy in Bangladeshi Children. *MBio*. 2016 Jan 12;7(1): e02102-15. PMID: PMC4725020
3. *Clostridium difficile* colitis: As an infectious diseases specialist, I encounter *C. difficile* colitis nearly every day on the clinical service. I therefore asked if the insights that our lab was gaining into the pathogenesis of *E. histolytica* infectious colitis would be enlightening for this other infectious form of colitis. The first discovery was that the leptin receptor mutation (Q223R) that had such a striking impact on susceptibility to amebic colitis had a similar effect on *C. difficile* colitis. We hypothesized that leptin affords protection during *C. difficile* colitis by enhancing mucosal inflammation acutely and by promoting healing during recovery. We are pursuing this lead in human and mouse studies that have shown that IL-23 mediated inflammation is disease-enhancing and IL-25 protective. In just accepted for publication we have identified the role of eosinophils in mediating IL-25 protection and conversely *C. difficile* toxins A, B and binary toxin in mediating disease.

- a. Cowardin C, Kuehne S, Buonomo E, Marie C, Minton N, Petri WA. (2015) Inflammasome activation contributes to IL-23 production in response to *Clostridium difficile*. mBio 6:1-9. PMID: 26159713
 - b. Buonomo EL and Petri WA. (2015) The Bug Stops Here: Innate Lymphoid Cells Defend against *Clostridium difficile* Infection. Cell Host & Microbe. 18, 5–6. PMID: 26159713
 - c. Buonomo EL, Cowardin C, Wilson MG, Saleh MM, Pramoongjago P, Petri WA Jr. (2016) Microbiota regulated IL-25 protects from *Clostridium difficile* infection via eosinophils. Cell Reports 16:1-12.
 - d. Cowardin CA, Buonomo EL, Saleh MM, Wilson MG, Burgess SL, Kuehne SA, Schwan C, Eichhoff AM, Koch-Nolte F, Lyras D, Aktories K, Minton NP, Petri WA Jr. The binary toxin CDT enhances *Clostridium difficile* virulence by suppressing protective colonic eosinophilia. Nature Microbiology Nature Microbiology 1, article number: 16108 (2016) doi:10.1038/nmicrobiol.2016.108.
4. Cryptosporidiosis: My research in cryptosporidiosis stems from identifying it as a major cause of diarrhea in our longitudinal community-based cohort studies of amebiasis. Diagnostic test development went hand-in-hand with studies in human cohorts, and encompassed qPCR, multiplex antigen detection and point of care tests. Studies of the role of innate and acquired immunity in protection derived from the observation that not every infection caused diarrhea. Discoveries have included the importance of mannose binding lectin in innate protection, and the role of both class I and II MHC and of breast milk anti-cryptosporidium IgA for acquired immunity. Finally we have determined (in work being prepared for publication) that cryptosporidiosis in the first two years of life is associated with malnutrition, as measured by stunting or linear growth shortfall.
- a. Kirkpatrick BD, Haque R, Duggal P, Mondal D, Larsson C, Peterson K, Akter J, Lockhart L, Khan S, Petri W A Jr. (2008) Association between *Cryptosporidium* infection and Human Leukocyte Antigen Class I and II Alleles. J Infect Dis 197:474-8. PMID: 18404124
 - b. Minak J, Kabir M, Mahmud I, Liu Y, Liu L, Haque R, Petri WA Jr. (2012) Evaluation of rapid antigen tests for detection of giardia and cryptosporidium in human fecal specimens. J Clin Microbiol 50:154-6. PMID: 2256704
 - c. Korpe PS, Liu Y, Siddique A, Kabir M, Ralston K, Ma JZ, Haque R, Petri WA Jr. (2013) Breast milk parasite-specific antibodies and protection from amebiasis and cryptosporidiosis in Bangladeshi infants: a prospective cohort study. Clin Infect Dis 56:988-92. PMID: 23588117
 - d. Korpe PS, Haque R, Gilchrist C, Valencia C, Niu F, Lu M, et al. (2016) Natural History of Cryptosporidiosis in a Longitudinal Study of Slum-Dwelling Bangladeshi Children: Association with Severe Malnutrition. PLoS Negl Trop Dis 10(5): e0004564. PMID: 26856361

Community Service

Soccer Coach, Soccer Organization of Charlottesville 1992-2009, 2011, 2012

Editorial Boards

Clinical Infectious Diseases, Associate Editor (2016 – Present)

PLoS Pathogens, Associate Editor (2009 – Present)

Faculty of 1000, Editor for Parasitology (2009-Present)

Infection & Immunity, Editor (1999-2009)

Trends in Molecular Medicine, Editorial Board (1995 - Present)

Molecular Microbiology (2007-Present)

Parasitology International (1996 - Present)

Parasite Immunology (2005 – Present)

Grant Reviews

Member, Microbiology and Infectious Diseases Research Committee, NIAID (2010-2016)

Member, NIH Pathogenic Eukaryotes Study Section (2005-2008)

Member, Microbiology and Infectious Diseases Research Committee, NIAID (2001-2005)

Member, Tropical Medicine and Parasitology Study Section, NIH (1993-1997)

Ad hoc Chair, NIH DBBD Minority & Disability Predoctoral Fellowship (F31) Review Committee (2003-8)

Committee and Administrative Appointments

Director, Biodefense Training Program (2002-Present)

Director, Infectious Diseases Training Program (1996-present)

Steering Committee, Immunology Training Program (1996-present)

Oversight Committee, Lymphocyte Culture Center (1994-present)

Committee on Admissions, School of Medicine (1995-1999)

Graduate student Ph.D. dissertation committees: average of 3 students annually

Promotions Committee, Department of Medicine (1992-1994)

Patents

1. Ravdin JI and Petri WA Jr. Amebiasis vaccine. U.S. Patent 5,004,608 issued April 2, 1991.

2. Petri W.A. Jr. and Mann B.J. Recombinant Gal/GalNAc *E. histolytica* lectin. U.S. Patent 5,260,429 issued November 9, 1993.

3. Petri, W.A. Jr. and Ravdin J.I. Diagnostic methods for *Entamoeba histolytica*. U.S. Patent 5,272,058 issued December 21, 1993.

4. Petri, W.A. Jr. and Ravdin J.I. Methods to produce antibodies for differentiating pathogenic from nonpathogenic *E. histolytica*. U.S. Patent 5,401,831 issued March 21, 1995.

5. Petri, W.A. Jr. and Ravdin J.I. Diagnostic methods for *Entamoeba histolytica*. Continuation in part, U.S. Patent 5,405,748 issued April 11, 1995.

6. Petri, W.A. Jr., Vines R.R., Purdy, J.E., and Mann, B.J. Transfection of Enteric Parasites. U.S. Patent 5,665,565 issued September 9, 1997.

7. Petri, W.A. Jr., Vines R.R., Purdy, J.E., and Mann, B.J. Transfection of Enteric Parasites. CIP . U.S. Patent 5,891,634 issued April 6, 1999.
8. Petri, W.A. Jr. and Mann, B.J. Recombinant *Entamoeba histolytica* lectin subunit peptides and reagents specific for members of the 170 kD subunit multigene family. U.S. Patent 6,165,469 issued December 26, 2000.
9. Petri W.A. Jr. and Mann B.J. Recombinant 170 kD subunit lectin of *Entamoeba histolytica* and methods of use. Australian Industrial Property Organization #71123/94; allowed 7/27/99.
10. Mann, B.J., Dodson, J.M., and Petri, W.A. Jr. Recombinant *Entamoeba histolytica* lectin subunit peptides and reagents specific for members of the 170 kD subunit multigene family. U.S. Patent 6,187,310, issued February 13, 2001.
11. Petri WA Jr, Boettner DR. Compositions and Methods for Regulating *Entamoeba histolytica* Function. U.S. Provisional Patent Application Serial No. 60/872,671, filed Dec. 4, 2006.
12. Petri WA Jr, Boettner DR. International Patent Application Serial No. PCT/US2007/085235 filed on December 2, 2008 entitled "Compositions and Methods for Regulating Entamoeba Histolytica Function".
13. Petri WA Jr et al. U.S. Provisional Patent Application Serial No. 61/322,088. Filed on April 8, 2010 Title: Innate Resistance to Clostridium Difficile Colitis Mediated by Reg1. UVAPF Reference: Petri-Difficile (01691-01) PCT/US2011/031680; International Filing Date 4/8/2011
14. Petri WA Jr et al. U.S. Provisional Patent Application Serial No. 61/421,688, Filed December 10, 2010. Title: Compositions and Methods for Diagnosing Preventing and Treating Under-Nutrition".
15. Petri WA Jr et al. U.S. Provisional Patent Application Serial No. 61/423,188, Filed December 15, 2010. Title: Addendum to Innate Resistance to Clostridium Difficile Colitis Mediated by Reg1
16. Petri WA Jr et al. U. S. Provisional Patent Application No. 61/548,768 entitled "Compositions and Methods for Preventing and Treating Clostridium Difficile Infections", filed on October 19, 2011.
17. Petri WA Jr. et al. U. S. Patent Application Serial No. 13/639,993 filed October 8, 2012 National Stage of PCT/US2011/031680 filed April 8, 2011. Title: Method to Detect and Treat Infectious or Inflammatory Diarrhea Based on Reg1. Our Reference: Petri-Difficile (01691-04)
18. Buonomo E, Okusa MD, Li L, Petri WA Jr. Compositions and Methods for Treating and Preventing Pathogenic Infections. U.S. Provisional Patent Application Serial No. 61/803,281. Filed March 19, 2013.
19. Petri WA Jr , Jiang, N. Method for diagnosing and treating cognitive impairment in children. US provisional patent application no. 61/820,273 titled "Compositions And Methods For Predicting Impaired Child Development" Filed May 7, 2013.
20. Petri WA Jr. et al. US provisional patent application no. 61/945,905 titled "Compositions and Methods for Modifying Breast Milk Lipid Content" filed on February 28, 2014 (UVA LVG TechID: PETRI-MILK).

21. Petri WA Jr., Buonomo EL. U.S. Provisional Patent Application Serial No. 62/060,725 Filed on October 7, 2014. Title: Compositions and Methods for Preventing and Treating Infection UVALVG Reference: Petri-Interlu (02128-01).
22. Petri WA Jr., Buonomo EL. U.S. Provisional Patent Application No. 62/146,579 (Supplemental), entitled “Compositions and Methods for Preventing and Treating Infection”, filed on April 13, 2015.
23. Petri WA Jr., Cowardin CA. Compositions and Methods for Preventing and Treating Clostridium Difficile Infection U.S. Provisional Patent Application Serial No. 62/149,867. Filed on April 20, 2015
24. Marie C, Petri WA Jr., Theodorescu D. U. S. Provisional Patent Application No. 62/202,375 entitled “Compositions and Methods for Preventing and Treating Entamoeba Histolytica Infection”, was filed on August 7, 2015.
25. Petri WA Jr. et al. International Patent Application Serial No. PCT/US2015/054498. Title: Compositions and Methods for Treating Infection. Filed: October 7, 2015
26. Petri WA Jr. et al. U.S. Provisional Patent Application Serial No. 62/339,283. Filed on May 20, 2016 Title: Compositions and Methods for Preventing and Treating Clostridium Difficile Infection
27. Petri WA Jr. et al. U.S. Provisional Patent Application Serial No. 62/366,761. Filed on July 26, 2016 Title: Compositions and Methods for Treating Clostridium Difficile Infection

Patent License Agreement

TechLab, Inc. (Blacksburg, VA) and the University of Virginia; technology related to the adherence lectin of *E. histolytica*; initiated 1/93.

FDA - Approved Diagnostic Tests

Entamoeba test; FDA 510(k) clearance for *in vitro* diagnostic use (K944791/S1), March 9, 1995.

Entamoeba histolytica test; FDA 510(k) clearance for *in vitro* diagnostic use (K955895), September 10, 1996.

Entamoeba histolytica II test; FDA 510(k) clearance for *in vitro* diagnostic use, December 16, 1999.

PUBLICATIONS

ORIGINAL RESEARCH PUBLICATIONS IN PEER-REVIEWED JOURNALS:

1. Petri WA Jr, Poirier LA, Morris HP. A lipotrope-dependent increase of histidase and urocanase in the livers of choline-deficient rats and in the Reuber H-35 hepatoma. *Biochim Biophys Acta* 321:681-684, 1973.
2. Petri WA Jr, Rodriguez J, Pitot HC. Environmental effects on glutathione-insulin transhydrogenase in rat liver. *Proc Soc Exp Biol Med* 152:610-614, 1976.
3. Petri WA Jr, Poirer LA. A methionine-reversible folate deficiency in rats following the acute administration of diethylnitrosamine and alpha-naphthylisothiocyanate. *Chem Biol Interact* 17:1-7, 1977.
4. Petri WA Jr, Wagner RR. Reconstitution into liposomes of the glycoprotein of vesicular stomatitis virus by detergent dialysis. *J Biol Chem* 254:4313-4316, 1979.
5. Petri WA Jr, Estep TN, Pal R, Thompson TE, Biltonen RL, Wagner RR. Thermotropic behavior of dipalmitoylphosphatidylcholine vesicles reconstituted with the glycoprotein of vesicular stomatitis virus. *Biochemistry* 19:3088-3091, 1980.
6. Pal R, Petri WA Jr, Wagner RR. Alternation of the membrane lipid composition and infectivity of vesicular stomatitis virus by growth in a Chinese hamster ovary cell sterol mutant and in lipid-supplemented baby hamster kidney cells. *J Biol Chem* 255:7688-7693, 1980.
7. Petri WA Jr, Wagner RR. Glycoprotein micelles isolated from vesicular stomatitis virus spontaneously partition into sonicated phosphatidylcholine vesicles. *Virology* 107:543-547, 1980.
8. Petri WA Jr. Vesicular stomatitis virus glycoprotein-lipid interactions. Ph.D. Dissertation, University of Virginia, 1980.
9. Petri WA Jr, Pal R, Barenholz Y, Wagner RR. Fluorescence anisotropy of a fatty acid covalently linked in vivo to the glycoprotein of vesicular stomatitis virus. *J Biol Chem* 256:2625-2627, 1981.
10. Petri WA Jr, Pal R, Barenholz Y, Wagner RR. Fluorescence studies of dipalmitoylphosphatidylcholine vesicles reconstituted with the glycoprotein of vesicular stomatitis virus. *Biochemistry* 20:2796-2800, 1981.
11. Zakowski JJ, Petri WA Jr., Wagner RR. Role of matrix protein in assembling the membrane of vesicular stomatitis virus: Reconstitution of matrix protein with negatively charged phospholipid vesicles. *Biochemistry* 20:3902-3907, 1981.

12. Pal R, Petri WA Jr, Barenholz Y, Wagner RR. Lipid and protein contributions to the membrane surface potential of vesicular stomatitis virus probed by a fluorescent pH indicator, 4-heptadecyl-7-hydroxycoumarin. *Biochim Biophys Acta* 729:185-192, 1983.
13. Pal R, Petri WA Jr, Ben-Yashar V, Wagner RR, Barenholz Y. Characterization of the fluorophore 4-heptadecyl-7-hydroxycoumarin: A probe for the headgroup region of lipid bilayers and biological membranes. *Biochemistry* 24:573-581, 1985.
14. Ravdin JI, Petri WA Jr, Murphy C, Smith RD. Production of mouse monoclonal antibodies which inhibit in vitro adherence by *Entamoeba histolytica* trophozoites. *Infect Immun* 53:1-5, 1986.
15. Orozco E, Rodriguez MA, Murphy CF, Salata RA, Petri WA Jr, Smith RD, Ravdin JI. *Entamoeba histolytica*: Cytopathogenicity and lectin activity of avirulent mutants. *Exp Parasitol* 63:157-165, 1987.
16. Petri WA Jr, Smith RD, Schlesinger PH, Murphy CF, Ravdin JI. Isolation of the galactose binding adherence lectin of *Entamoeba histolytica*. *J Clin Invest* 80:1238-1244, 1987.
17. Chadee K, Petri WA Jr, Innes DJ, Ravdin JI. Rat and human colonic mucins bind to and inhibit the adherence lectin of *Entamoeba histolytica*. *J Clin Invest* 80:1245-1254, 1987.
18. Petri WA Jr, Joyce MP, Broman J, Smith RD, Murphy CF, Ravdin JI. Recognition of the Gal/GalNAc adherence lectin of *Entamoeba histolytica* by human immune sera. *Infect Immun* 55:2327-2331, 1987.
19. Ravdin JI, Moreau F, Sullivan JA, Petri WA Jr., Mandell GI. The relationship of free intracellular calcium to the cytolytic activity of *Entamoeba histolytica*. *Infect Immun*, 56:1505-1512, 1988.
20. Chadee K, Johnson ML, Orozco E, Petri WA, Ravdin JI. Binding and internalization of rat colonic mucins by the Gal/GalNAc adherence lectin of *Entamoeba histolytica*. *J Infect Dis* 158:398-406, 1988.
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147. Marie C, Petri WA Jr. Amoebic dysentery. *BMJ Clin Evid.* 2013 Aug 30;2013. pii: 0918.
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150. Burgess SL, Petri WA Jr. The Intestinal Bacterial Microbiome and *E. histolytica* Infection. *Curr Trop Med Rep.* 2016;3:71-74.
151. Buonomo EL, Petri WA Jr. The microbiota and immune response during *Clostridium difficile* infection. *Anaerobe.* 2016 Oct;41:79-84. doi: 10.1016/j.anaerobe.2016.05.009.
152. Watanabe, K, Petri WA Jr. Environmental Enteropathy: elusive but significant subclinical abnormalities in developing countries. *EBioMedicine.* 2016 Aug;10:25-32. doi: 10.1016/j.ebiom.2016.07.030.
153. Petri WA Jr. Tularemia Best Practice/Point of Care, *BMJ*, update 2016.
154. Petri WA Jr. Necrotizing fasciitis Best Practice/Point of Care *BMJ*, update 2016.
155. Watanabe, K, Petri WA Jr. Amebiasis Best Practice/Point of Care *BMJ*, update 2016.
156. Steele SP, Melchor SJ, Petri WA Jr. Tuft Cells: New Players in Colitis. *Trends Mol Med.* 2016 Oct 4. pii: S1471-4914(16)30120-4. doi: 10.1016/j.molmed.2016.09.005.
157. Schnee AE, Petri WA Jr. *Campylobacter jejuni* and Associated Immune Mechanisms: Short Term Effects and Long Term Implications. *Current Opinion Infectious Diseases*, in press 2017.
158. Ramakrishnan G, Petri WA Jr. Secondary carnitine deficiency in environmental enteric dysfunction. *EBioMedicine*, in press, 2017.

Invited Lectures

September 20, 1989	Weizmann Institute Department of Biophysics Rehovot, Israel
February 28, 1990	Johns Hopkins University Department of Biological Chemistry Baltimore, Maryland
July 1990	Invited Speaker Woods Hole Marine Biology Labs Biology of Parasitism Course Woods Hole, Massachusetts
April 26, 1991	McGill University Institute of Parasitology Montreal, Canada
May 29, 1991	National Institutes of Health Lab of Parasitic Diseases Bethesda, Maryland
October 3, 1991	Medical College of Virginia Department of Microbiology Richmond, Virginia
November 6, 1991	New York University School of Medicine Department of Pathology New York, New York
December 2, 1991	Harvard University Cutaneous Biology Program Boston, Massachusetts
January 22, 1992	Johns Hopkins University Department of Biological Chemistry Baltimore, Maryland
July 3, 1992	Invited Speaker Woods Hole Marine Biology Labs Biology of Parasitism Course Woods Hole, Massachusetts
September 14, 1992	Workshop Moderator Host-Parasite Interactions

	Molecular Parasitology Meeting Woods Hole, MA
September 24, 1992	University of Alabama-Birmingham Division of Geographic Medicine Birmingham, Alabama
October 14, 1992	Symposium Co-chair Recent Advances in Protozoal Infections Interscience Conference on Antimicrobial Agents and Chemotherapy, Anaheim, California
November 18, 1992	Symposium Co-chair Complement Evasion by Microbial Pathogens American Society of Tropical Medicine and Hygiene Seattle, Washington
February 24, 1993	University of North Carolina - Chapel Hill Department of Microbiology Chapel Hill, North Carolina
February 25, 1993	Burroughs Wellcome Fund Research Triangle Park, North Carolina
April 30, 1993	Invited Speaker Second Annual International Centers for Tropical Diseases Research Meeting National Institutes of Health
June 28, 1993	Invited Speaker Gordon Conference on Parasitology New London, New Hampshire
September 10, 1993	Telios Pharmaceuticals San Diego, California
September 10, 1993	Symposium Co-Chair Markey Trust Annual Meeting San Diego, California
September 15-16, 1993	Workshop on Vaccines for Parasitic Diseases The Cloister Bethesda, Maryland
September 23, 1993	Biology Department Johns Hopkins University

	Baltimore, Maryland
October 21, 1993	Department of Immunology & Infectious Diseases Johns Hopkins University Baltimore, Maryland
November 1, 1993	Symposium on Host-Parasite Interactions American Society of Tropical Medicine & Hygiene Annual Meeting, Atlanta, Georgia
November 15, 1993	Board of Directors Meeting Center for Innovative Technology Commonwealth of Virginia Charlottesville, Virginia
December 9, 1993	Department of Microbiology SUNY-Buffalo Buffalo, New York
February 7, 1994	School of Public Health Johns Hopkins University Baltimore, Maryland
April 12, 1994	Department of Biochemistry University of Kentucky Lexington, Kentucky
September 15, 1994	International Center for Diarrhoeal Disease Research Dhaka, Bangladesh
September 17, 1994	Invited Speaker Satellite Symposium - Protein Structure/Function Bose Institute Calcutta, India
September 19, 1994	School of Environmental Sciences Jawaharlal Nehru University New Delhi, India
September 22, 1994	Invited Speaker XVI International Congress of Biochemistry and Molecular Biology New Delhi, India

October 6, 1994	Symposium Co-chair Advances in Protozoal Chemotherapy Interscience Conference on Antimicrobial Agents and Chemotherapy, Orlando, Florida
October 11, 1994	Lab of Parasitic Diseases NIAID, NIH Bethesda, MD
October 26, 1994	Dept. of Pharmacology & Molecular Sciences Johns Hopkins University 725 North Wolfe Street Baltimore MD
November 15, 1994	Invited Speaker International Symposium on Amebiasis American Society of Tropical Medicine & Hygiene Annual Meeting, Cincinnati, Ohio
December 5, 1994	Invited Speaker National Research Council 1994 Mexico City Parasitology Course Mexico City
December 6, 1994	Centro de Investigacion y de Estudios Avanzados Department of Experimental Pathology Mexico City
December 7, 1994	Instituto de Biotecnologia Universidad Nacional Autonoma de Mexico Cuernavaca, Mexico
December 16, 1994	Department of Molecular Microbiology Washington University St. Louis, MO
February 3, 1995	Southern AFRC Outstanding Investigator Award Southern Section AFRC Annual Meeting New Orleans LA
February 14, 1995	Invited Speaker "Windows on Biotechnology" University of Virginia
March 1-2, 1995	Department of Zoology University of Georgia

	Athens, Georgia
May 30, 1995	Plenary Speaker NIH "GlycoDay" Annapolis, Maryland
June 16-17, 1995	Lecturer Biology of Parasitism: Modern Approaches Woods Hole, Massachusetts
June 25, 1995	Invited Speaker Gordon Conference on Parasitology New London, New Hampshire
September 11, 1995	Center for Biologics Evaluation and Research FDA, Bethesda, Maryland
October 22-26, 1995	Invited Speaker European Conference on Tropical Medicine Hamburg, Germany
December 7, 1995	Bay Area Parasitology Seminar Club San Francisco, California
December 8, 1995	Department of Microbiology & Immunology Stanford University School of Medicine Stanford, California
February 2, 1996	Session Co-Chair Southern Section Meeting of the AFRC New Orleans, Louisiana
February 12, 1996	Biology of Parasitism Course Johns Hopkins University Baltimore, Maryland
July 13, 1996	Lecturer Biology of Parasitism: Modern Approaches Woods Hole, Massachusetts
July 25, 1996	Lecturer Military Tropical Medicine Course Uniformed Services University of Health Sciences Bethesda, Maryland
November 12, 1996	School of Environmental Sciences

	Jawaharlal Nehru University New Delhi, India
November 14, 1996	International Center for Diarrhoeal Disease Research Dhaka, Bangladesh
November 18, 1996	Co-organizer Session on Intestinal Protozoa XIVth International Congress for Tropical Medicine and Malaria, Nagasaki, Japan
November 25, 1996	Invited Speaker Annual Meeting of the Society for Glycobiology Boston, Massachusetts
December 2, 1996	Plenary Speaker, Annual Meeting American Society for Tropical Medicine & Hygiene Baltimore MD
December 17, 1996	Invited Speaker National Research Council 1996 Parasitology Course Buenos Aires, Argentina
January 28, 1997	Consultant, WHO/PAHO Meeting on the Differentiation of <i>E. histolytica</i> / <i>E. dispar</i> Mexico City, Mexico January 28, 1996
January 29, 1997	Instituto de Investigaciones Biomedicas UNAM Mexico City, Mexico
March 17, 1997	Department of Biology Catholic University Washington, D.C.
April 7, 1997	Keynote Lecturer Medicine Research Day University of Virginia
May 5, 1997	Grand Rounds Department of Medicine Pritzker School of Medicine University of Chicago

May 15, 1997	Department of Biology University of Pennsylvania
July 9, 1997	Lecturer Military Tropical Medicine Course Uniformed Services University of Health Sciences Bethesda, Maryland
July 17, 1997	Lecturer Biology of Parasitism: Modern Approaches Woods Hole, Massachusetts
July 25, 1997	Invited Speaker "New Diagnostic Technologies" Symposium 10th International Conference of Protozoology Sydney, Australia
July 28 - 30, 1997	Organizer Amebiasis session "Future Chemotherapeutic Targets for the Anaerobic Protozoa" Brisbane, Australia
September 12, 1997	Lecturer ASTMH Tropical Medicine Course San Francisco, California
September 14, 1997	Symposium Co-Chair Annual Meeting Infectious Diseases Society of America San Francisco, California
September 25, 1997	Session Chair: "New Tools" Molecular Parasitology Meeting Woods Hole MA
September 29, 1997	Symposium Organizer and Co-Chair Interscience Conference on Antimicrobial Chemotherapy (ICAAC) Toronto, Canada
March 5, 1998	School of Medicine Center for Microbial Pathogenesis Yale University

April 24, 1998	Department of Biology Vanderbilt University Nashville, Tennessee
May 4, 1998	School of Public Health Johns Hopkins University Baltimore, Maryland
July 16, 1998	Lecturer Military Tropical Medicine Course Uniformed Services University of Health Sciences Bethesda, Maryland
August 3, 1998	Grand Rounds University of Virginia
August 25, 1998	Invited Speaker International Congress of Parasitology Chiba, Japan
November 14, 1998	Convener, Symposium on “International Vector Borne Diseases”, Meeting of the Infectious Diseases Society of America Denver, Colorado
March 25-26, 1999	Department of Microbiology University of Arizona, Tucson AZ
May 24, 1999	Albert L. Ritterson Lecturer in Parasitology Department of Microbiology & Immunology University of Rochester Rochester NY
June 24, 1999	Session Chair Gordon Conference on Parasitism Newport, Rhode Island
July 16, 1999	Lecturer Military Tropical Medicine Course Uniformed Services University of Health Sciences Bethesda, Maryland
August 9, 1999	Department of Microbiology and Immunology Faculty of Tropical Medicine Mahidol University Bangkok 10400, Thailand

August 11, 1999	Department of Microbiology Sheikh Mujib Medical University Dhaka, Bangladesh
October 4, 1999	Department of Microbiology & Immunology Uniformed Services University of Health Sciences Bethesda, Maryland
October 25, 1999	Department of Biochemistry Virginia Polytechnic Institute and State University Blacksburg, Virginia
November 20, 1999	Convener, Symposium on “Infectious Diseases of Australasia”, Meeting of the Infectious Diseases Society of America Philadelphia, Pennsylvania
January 11, 2000	Laboratory of Parasitic Diseases National Institutes of Health Bethesda, Maryland
January 27, 2000	Department of Medicine University of Tennessee Chattanooga TN
March 3, 2000	J. A. Baker Institute Cornell University Ithaca, New York
March 17, 2000	Department of Biology Georgetown University Washington, D.C.
June 19, 2000	Walter and Eliza Hall Institute Melbourne, Australia
June 21, 2000	University of New South Wales Sydney, Australia
June 26, 2000	Australasian College of Tropical Medicine Annual Scientific Meeting Noosa Lakes Resort, Australia
June 28, 2000	Queensland Institute for Medical Research Brisbane, Australia

July 7-8, 2000	Invited Speaker International Symposium on Amoebiasis Bernhard Nocht Institute for Tropical Medicine
July 14, 2000	Lecturer Military Tropical Medicine Course Uniformed Services University of Health Sciences Bethesda, Maryland
August 29, 2000	International Centre for Diarrhoeal Disease Research Dhaka, Bangladesh
September 17-20, 2000	Invited Speaker for symposia entitled “Emerging Infections” and “An Update on Clinical Parasitology”, Interscience Conference on Antimicrobial Chemotherapy (ICAAC), Toronto, Canada
September 18, 2000	Annual Course in International Health Case Western Reserve University Cleveland Ohio
November 11, 2000	Invited Symposium Speaker Glycobiology Society Annual Meeting Boston MA
December 14, 2000	Department of Immunology and Infectious Diseases School of Public Health Johns Hopkins University
January 25, 2001	Walter Reed Army Institute of Research Washington, D.C.
February 23, 2001	American Enterprise Institute Health Policy Discussion “Third World Incentives for Pharmaceutical R&D” Washington, D.C.
March 9, 2001	Dept of Molecular Biology University of Wyoming Laramie, WY
April 2, 2001	National Center for Infectious Diseases Centers for Disease Control

	Atlanta, Georgia
May 15, 2001	School of Public Health Harvard University Boston, Massachusetts
May 31 – June 1, 2001	Visiting Professor Department of Medicine University of Iowa, Iowa City
July 1, 2001	Biology of Parasitism Course Woods Hole, Massachusetts
July 11, 2001	Military Tropical Medicine Course Uniformed Services University of the Health Sciences, Bethesda, Maryland
July 2001	Annual Course in International Health Case Western Reserve University Cleveland Ohio
October 24, 2001	Tropical Medicine Association of Washington Washington, D.C.
October 30, 2001	Department of Biological Sciences Notre Dame University Notre Dame, Indiana
December 12-13, 2001	William M. M. Kirby Lecturer Division of Allergy & Infectious Diseases University of Washington School of Medicine Seattle WA
February 10-13, 2001	International Meeting on Amebiasis Agra, India (Organizing Committee)
March 26, 2002	Department of Molecular Genetics & Biochemistry University of Pittsburgh
May 14-16, 2002	Ann Sullivan Baker Visiting Professor Division of Infectious Diseases Massachusetts General Hospital Boston MA
July 15, 2002	Military Tropical Medicine Course

	Uniformed Services University of the Health Sciences, Bethesda, Maryland
July 25, 2002	Annual Course in International Health Case Western Reserve University Cleveland Ohio
September 12, 2002	Center for Tropical Health University of Texas - Galveston
September 27, 2002	Department of Clinical Microbiology Gulhane Military Medical Academy Ankara, Turkey
October 1, 2002	Invited Speaker 30 th Turkish Congress of Microbiology Antalya, Turkey
October 26, 2002	Invited Speaker Symposium on “Microbial Pathogenesis” Infectious Diseases Society of America Annual Meeting, Chicago IL
November 11, 2002	Meet the Professor Session on “The Future of Tropical Medicine”, Annual Meeting of the American Society of Tropical Medicine and Hygiene, Denver CO
November 21, 2002	University of Texas – San Antonio Department of Microbiology
February 4, 2003	Invited Speaker Mid-Atlantic Microbial Pathogenesis Conference Wintergreen Resort, Virginia
May 20, 2003	Organizing Committee & Invited Speaker EMBO Conference on Amebiasis Pasteur Institute Paris, France
July 21, 2003	Military Tropical Medicine Course Uniformed Services University of the Health Sciences, Bethesda, Maryland
July 24, 2003	Annual Course in International Health Case Western Reserve University

	Cleveland Ohio
August 23, 2003	Department of Infectious Diseases Tokai University School of Medicine Isehara, Japan
August 26, 2003	Invited Speaker Awaji International Forum on Infection and Immunity Awaji Island, Japan
September 22, 2003	Lecturer Howard Hughes Medical Institute Course on Parasitology and Human Genetics ICDDR,B, Dhaka, Bangladesh
October 29, 2003	Visiting Professor Lynchburg College Lynchburg, Virginia
October 30-31, 2003	Visiting Professor University of Maryland School of Medicine Department of Microbiology & Immunology Baltimore MD
November 21, 2003	Department of Biology University of Virginia
December 19, 2003	Tisdale Visiting Professor University of Vermont School of Medicine Burlington VT
January 7, 2004	Invited Speaker Enteric Diseases Program Naval Medical Research Center and Walter Reed Army Institute of Research Silver Spring, Maryland
March 25, 2004	Visiting Professor Department of Medicine MetroHealth Medical Center Case Western Reserve University Cleveland Ohio
May 5-6, 2004	Visiting Professor Department of Medicine

	University of Minnesota
May 13, 2004	Department of Immunology & Infectious Diseases Bloomberg School of Public Health Johns Hopkins University Baltimore Maryland
May 18, 2004	Department of Cellular and Molecular Biology Boston University
May 18-19, 2004	Visiting Professor School of Public Health Harvard University Boston Massachusetts
June 21-22, 2004	Fourth Quebec Parasitology Symposium Keynote Speaker Montreal, Canada
July 26, 2004	Military Tropical Medicine Course Uniformed Services University of the Health Sciences, Bethesda, Maryland
September 2, 2004	Bangladesh Agricultural University Mymensingh, Bangladesh
October 15, 2004	Plenary Speaker Mexican Congress of Parasitology Tlaxcala, Mexico
November 7-11, 2004	“Meet the Professor” Annual Meeting American Society of Tropical Medicine & Hygiene Miami, Florida
November 16-20, 2004	Organizing Committee, EMBO Workshop “Pathogenesis Of Amebiasis: From Genomics To Disease” Ein Gedi, Israel
November 16, 2004	Keynote Speaker Israel Society of Parasitology, Protozoology and Tropical Medicine Annual Meeting Shoresh, Israel
December 8, 2005	Invited Speaker

	U.S. – Japan Panel on Parasitology Kyoto, Japan
January 14, 2004	Jawaharlal Nehru University New Delhi, India
February 6-8 2005	Organizing Committee Mid-Atlantic Microbial Pathogenesis Meeting Wintergreen Resort, Virginia
February 11, 2005	Department of Medical Microbiology and Immunology University of California at Davis
March 24, 2005	Invited Speaker NIH Workshop Innate Immunity to Parasitic Protozoa Baltimore MD
April 22, 2005	Department of Microbiology State University of New York at Buffalo
June 15, 2005	Oklahoma State University Center for Health Sciences Tulsa, Oklahoma
July 19-20, 2005	Invited Speaker International Symposium on Infections and Host Responses National Center of Sciences Tokyo, Japan
July 27, 2005	Military Tropical Medicine Course Uniformed Services University of the Health Sciences, Bethesda, Maryland
September 7, 2005	Visiting Professor Department of Medicine Albert Einstein College of Medicine
September 12, 2005	University of Pennsylvania Department of Immunology Philadelphia PA
September 22, 2005	Enteric Therapeutics Meeting NIAID, NIH, Bethesda MD

October 7, 2005	Invited Speaker AAI Symposium on Microbial Pathogenesis Annual Meeting Infectious Diseases Society of America San Francisco CA
October 21, 2005	Department of Microbiology Universidad Cayetano Lima, Peru
December 12, 2005	Invited Speaker Symposium on Bench to Bedside Parasitology Annual Meeting American Society of Tropical Medicine & Hygiene Washington DC
January 17, 2006	Laboratory of Parasitic Diseases National Institute of Allergy and Infectious Diseases NIH, Bethesda MD
January 31-February 3, 2006	Scientific Program Committee and Speaker XV Seminario Sobre Amibiasis Oaxaca, Mexico
February 17, 2006	University of Wisconsin-Madison Dept. Medical Microbiology & Immunology Madison, Wisconsin
March 28, 2006	Department of Microbiology Gulhane Medical School Ankara, Turkey
July 21, 2006	Rocky Mountain Laboratories, NIAID, NIH Hamilton, Montana
July 24, 2006	Lecturer Military Tropical Medicine Course Uniformed Services University of Health Sciences Bethesda, Maryland
September 4, 2006	International Centre for Diarrhoeal Disease Research Dhaka, Bangladesh

October 2, 2006	Department of Microbiology University of Chicago Chicago, IL
October 3, 2006	Department of Medicine Grand Rounds University of Chicago Chicago, IL
October 26, 2006	Burroughs Wellcome Fund Board of Directors Meeting Research Triangle Park NC
November 8, 2006	Virginia Association of School Superintendents Charlottesville, VA
November 21, 2006	NIAID, NHGRI, NIH Eukaryotic Pathogen and Vectors Genomic Sequencing Workshop Bethesda MD
January 7-11, 2007	Mahabaleshwar Workshop on Parasite Immunology and Immunogenetics Mahabaleshwar, India
February 2, 2007	US-Japan Panel on Parasitology University of Tokyo, Japan
February 6, 2007	Kyushu University Faculty of Medical Sciences Fukuoka, Japan
May 24-25, 2007	EMBO Workshop on Amebiasis 2007 Organizing Committee Amsterdam, The Netherlands
July 23, 2007	Lecturer Military Tropical Medicine Course Uniformed Services University of Health Sciences Bethesda, Maryland
September 13, 2007	Bill & Melinda Gates Foundation Seattle, Washington
November 7, 2007	Symposia speaker: "Mentoring" and "Vaccines for Neglected Tropical Diseases"

	American Society of Tropical Medicine & Hygiene, Philadelphia, PA
November 15, 2007	Dean's Seminar University of Virginia
January 16, 2007	U.S.-Japan Panel Conference on Parasitology University of California-Davis Sacramento CA
February 21, 2008	Department of Pathobiology University of Washington Seattle WA
February 29, 2008	Global Health Panel University of Vermont School of Medicine Burlington VT
March 6, 2008	Middle Atlantic Regional Center for Excellence in Biodefense and Emerging Infections Ellicott City, MD
April 2, 2008	Virginia Bioinformatics Institute Blacksburg VA
April 3, 2008	Albemarle County Medical Society Charlottesville VA
July 11, 2008	Burroughs Wellcome Fund Summer Conference Denver, Colorado
July 21, 2008	Military Tropical Medicine Course Bethesda MD
July 29, 2008	International Conference on Neglected Tropical Diseases Dhaka, Bangladesh
September 3-5, 2008	Discussion Leader Genomic Perspectives on Host-Pathogen Interactions Wellcome Trust Genome Campus Hinxton, United Kingdom
September 29-October 1, 2008	International Congress for Tropical Medicine &

	Malaria, Symposium Convenor Jeju Island, Korea
October 2, 2008	VII Nestle Nutrition Conference Mexico City, Mexico
January 6, 2009	Tohoku Medical Society Sendai, Japan
January 7-9, 2009	US-Japan Parasitology Panel Tokyo, Japan
January 13, 2009	Rajshahi School of Medicine Department of Microbiology Rajshahi, Bangladesh
February 24-28, 2009	XVI Seminario sobre Amebiasis Scientific Committee Guanajuato, Mexico
March 20, 2009	Department of Parasitology New York University
March 31, 2009	Department of Microbiology Medical College of Wisconsin
April 24, 2009	Department of Microbiology University of Texas – El Paso
July 16, 2009	Jawaharlal Nehru University New Delhi, India
July 25, 2009	Tribhuvan University Kathmandu, Nepal
July 27, 2009	Military Tropical Medicine Course Uniformed Services University Bethesda, MD
March 18-19, 2010	Keynote Speaker for Research Day Center for Microbial Interface Biology Ohio State University
March 24, 2010	Convening on Malnutrition Bill & Melinda Gates Foundation Seattle WA

April 13, 2010	Department of Microbiology & Immunology Vanderbilt University
April 19, 2010	Convening on Oral Vaccine Under-performance Bill & Melinda Gates Foundation Seattle WA
May 8, 2010	Keynote Speaker, Research Day Center for Tropical and Emerging Global Diseases University of Georgia, Athens GA
May 17, 2010	Malnutrition and Enteric Diseases Meeting Foundation for the NIH Bethesda MD
July 7, 2010	Nutrition and Global Health Symposium Division of Nutrition Harvard Medical School, Boston MA
July 26, 2010	Military Tropical Medicine Course Uniformed Services University Bethesda, MD
August 18, 2010	Convenor, Amebiasis Symposium International Conference on Parasitology Melbourne, Australia
September 23-24, 2010	Scientific Organizing Committee International Amebiasis Symposium Montreal, Canada
December 14-16, 2010	Gut Integrity Convening Bill & Melinda Gates Foundation Seattle WA
December 18-19, 2010	Expert Meeting on Mucosal Immunity and Poliovirus, WHO New Delhi, India
January 25, 2011	Global Diseases: Voices from the Vanguard Lecture Series University of Georgia Athens, Georgia
February 3, 2011	Department of Pediatrics

	Aga Khan University Karachi, Pakistan
March 3, 2011	Wadsworth Center New York State Department of Health Albany NY
March 10, 2011	Duke University Department of Molecular Genetics & Microbiology Durham, NC
April 3-5, 2011	Infectious Diseases and Health Disparity in a Changing World Symposium University of Texas – El Paso El Paso, Texas
July 25, 2011	Military Tropical Medicine Course Uniformed Services University Bethesda, MD
September 27, 2011	NIDDK Workshop on Acute Diarrhea NIH, Bethesda, MD
October 7, 2011	Bridging the Career Gap for Underrepresented Minority Scientists Workshop Speaker NIH, Bethesda MD
October 27, 2011	Washington Global Health Alliance University of Washington Seattle Washington
November 5, 2011	Grand Challenges Meeting Bill & Melinda Gates Foundation New Delhi, India
November 7-11, 2011	Co-Organizer & Speaker Keystone Symposium “Malnutrition, Gut- Microbial Interactions and Mucosal Immunity to Vaccines”, New Delhi, India
November 17, 2011	Aga Khan University Department of Pediatrics Karachi, Pakistan

December 3-4, 2011	Cryptosporidium Disease Burden, Therapeutics and Diagnostics Bill & Melinda Gates Foundation & NIH Philadelphia, PA
January 11, 2012	Department of Microbiology & Immunology Stanford University Palo Alto CA
January 15-20, 2012	Keystone Symposium “Drug Discovery for Protozoan Parasites”, Sante Fe, New Mexico
February 17, 2012	Life Science Seminar series Virginia Tech Blacksburg VA
March 3, 2012	EMBO Global Lecture Course Indian National Science Academy New Delhi, India
March 4-7, 2012	Organizing Committee & Speaker Amebiasis 2012 Conference Khajuraho, India
July 23, 2012	Military Tropical Medicine Course Uniformed Services University Bethesda MD
September 9-12, 2012	Symposium Chair Malnutrition, Microbiome & Mucosal Immunity ICAAC San Francisco CA
October 17-21, 2012	Meet the Professor Session “Microbiome” Infectious Diseases Society of America San Diego CA
December 7, 2012	National Institute for Infectious Diseases Tokyo, Japan
December 10, 2013	6 th Nagasaki Symposium on Tropical and Emerging Infectious Diseases Nagasaki, Japan
February 11, 2013	Gordon Conference on Tropical Infectious Diseases

	Galveston TX
March 1-5, 2013	Seminario Sobre Amibiasis Scientific Committee Merida Mexico
March 7, 2013	Department of Molecular Microbiology and Immunology and the Division of Infectious Diseases at Johns Hopkins
April 11, 2013	Grand Rounds, Department of Medicine Washington University in St. Louis
April 12, 2013	Global Health & Infectious Diseases Conference Institute for Public Health Washington University in St. Louis
April 30, 2013	University of Texas Medical Branch Galveston Texas
June 27-28, 2013	Persisting Consequences of Intestinal Infection Old Herborn University Herborn, Germany
July 12, 2013	Military Tropical Medicine Course Uniformed Services University Health Sciences Bethesda Maryland
October 16, 2013	Microbial Genomics Wellcome Trust Conference Center Hinxton, England
November 5, 2013	Child Malnutrition & Development Bill & Melinda Gates Foundation Seattle Washington
November 12, 2013	Update in Clinical Tropical Medicine Pre-meeting course American Society of Tropical Medicine & Hygiene, Washington DC
November 16, 2013	Symposium on Oral Vaccines American Society of Tropical Medicine & Hygiene, Washington DC
December 4, 2013	Gut Biomarkers Symposium

	Bill & Melinda Gates Foundation Seattle Washington
December 6, 2013	Grand Rounds Carilion Memorial Hospital Roanoke VA
January 8, 2014	International Centre for Diarrheal Disease Research, Bangladesh Dhaka, Bangladesh
February 11, 2014	16 th International Conference on Emerging Infectious Diseases in the Pacific Rim Dhaka, Bangladesh
February 12, 2014	US-Japan Panel on Parasitology Dhaka, Bangladesh
May 7, 2014	Department of Medicine Research Day Keynote Speaker University of Virginia
May 27, 2014	Department of Cell and Molecular Biology Uppsala University Uppsala, Sweden
May 28, 2014	5th International Giardia and Cryptosporidia Conference Uppsala, Sweden
July 11, 2014	Military Tropical Medicine Course Uniformed Service University of the Health Sciences, Bethesda MD
August 13, 2014	Chair, Amoebiasis Session, International Conference on Parasitology Mexico City
September 4, 2014	Medical Research Council Banjul, The Gambia
September 16, 2014	Division of Developmental Medicine Harvard University School of Medicine Boston MA
September 19, 2014	Pasteur Institute

	Paris, France
September 25, 2014	Polio Research Committee Pan American Helath Organization Washington, DC
October 9, 2014	Symposium on Mucosal Immunity Infectious Diseases Society of America Philadelphia, PA
October 29, 2014	University of Florida Genetics Institute Gainesville FL
November 9, 2014	Biological Challenges to Effective Vaccines in the Developing World The Royal Society, London UK
November 20, 2014	Department of Biochemistry and Molecular Genetics, University of Virginia
December 15, 2014	Singapore Immunology Network Singapore
January 25, 2015	Cryptosporidia Working Group Bill & Melinda Gates Foundation London, England
January 28, 2015	Gut Biomarkers Consortium Bill & Melinda Gates Foundation London, England
March 12, 2015	Laboratory of Parasitic Diseases NIH, NIAID, Bethesda MD
March 31, 2015	Leaders of Tomorrow Summit 2015 Culturing Next-Gen Leaders for Tomorrow's Bioeconomy MedImmune, Gaithersburg MD
April 7, 2015	Childrens Hospital of Oakland Research Institute Oakland CA
April 24, 2015	Memorial Sloan Kettering Institute New York City, NY

June 1, 2015	Environmental enteric dysfunction convening Bill & Melinda Gates Foundation Seattle WA
June 23, 2015	iZINC Conference Bill & Melinda Gates Foundation Seattle WA
June 29, 2015	Jawaharlal Nehru Univeristy New Delhi, India
July 15, 2015	Military Tropical Medicine Course Uniformed Service University of the Health Sciences, Bethesda MD
September 1, 2015	University of Calgary Calgary, Alberta Canada
September 14, 2015	University of Georgia Infectious Diseases Department Athens Georgia
September 17, 2015	Harvard University Biomarkers of Gut Homeostasis Boston MA
September 23, 2015	Seres Therapeutics Cambridge MA
September 23, 2015	Keynote Lecture Molecular Parasitology Meeting Woods Hole MA
October 29, 2015	Enteric Environmental Dysfunction Conference International Atomic Energy Agency Vienna, Austria
November 23, 2015	Pasteur Institute Paris, France
December 7, 2015	Plenary Speaker, Annual Meeting Association of Microbiologists of India New Delhi, India
December 16, 2015	Johnson McGuire Lecture Department of Medicine

	University of Cincinnati Cincinnati, OH
January 15, 2016	Jawaharlal Nehru University New Delhi, India
January 22, 2016	Program for Appropriate Technology for Health San Francisco, CA
January 24, 2016	Department of Microbiology & Immunology Stanford University Palo Alto, CA
March 15, 2016	Vaccine Delivery Bill & Melinda Gates Foundation Seattle WA
April 22, 2016	Healthy Birth, Growth & Development Bill & Melinda Gates Foundation Seattle WA
July 20, 2016	Military Tropical Medicine Course Uniformed Services University Bethesda MD
July 27, 2016	Gail and Elkan Blout Lecturer Biology of Parasitism Course Marine Biological Laboratories Woods Hole MA
September 29, 2016	University of Michigan Department of Pathology Seminar Speaker
November 8, 2016	6th Annual John H. Cross Memorial Lecture Uniformed Services University of the Health Sciences
November 13, 2016	PATH Diarrhea Innovations Group Atlanta, Georgia
January 16, 2017	International Centre for Diarrhoeal Disease Research, Dhaka, Bangladesh
February 9, 2017	US-Japan Cooperative Medical Sciences Program Parasitic Diseases Panel Seoul, Korea

March 7, 2017	Global Neglected Infectious Diseases: Evolution, Virulence and Pathogenesis
March 16, 2017	National Institutes of Health, Bethesda MD Institute Pasteur Paris, France
July 2-5, 2017	Australian Society of Microbiology Plenary Invited Speaker Hobart, Tasmania
August 7-10, 2017	State-of-the-art Plenary Speaker ClostPath 10 Ann Arbor MI