

CURRICULUM VITAE

Personal Information

William A. Petri, Jr., M.D., Ph.D.
University of Virginia Health Sciences Center
Room 2115 MR4 Building
Charlottesville VA 22908 USA

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

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 - 1993	Associate Professor of Internal Medicine (tenured) and of Microbiology, and Attending Physician in Internal Medicine Divisions of Infectious Diseases and Geographic Medicine University of Virginia
1993 - 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 Associate Director of Clinical Microbiology Divisions of Infectious Diseases and Geographic Medicine University of Virginia
2001 – Present	Chief, Division of Infectious Diseases University of Virginia

Teaching

1988 - Present	Attending on general medical wards, University of Virginia Hospital, 1 month/year, 160 hours/year
1988 - Present	Attending on infectious diseases consult service of the University of Virginia Hospital, 1month/year, 160 hours/year
1994 - Present	Organizer of the Parasitology Section of the Pathology Course (2nd Year Medical Students)

1989 - Present	Lecturer for Microbiology 810 "Microbial Pathogenesis", 25 hours of lecture/year (2nd Year Graduate Students)
1996 - Present	Lecturer for Current Topics in Immunology (Microbiology 820), 3 hours lecture
1995 - Present	Lecturer for Microbiology 803 "Fundamental Immunology", 4.5 hours of lecture/year (2nd year graduate students)
1988 - Present	Third year medical school clerkship and fourth year elective lectures on infectious diseases, 8 hours/year
1995 - Present	Discussion leader for Infectious Diseases section of Introduction to Clinical Medicine, 6 hours of discussion/year
1994 - 2000	Attending on Clinical Microbiology, University of Virginia Hospital, 2 months/year, 70 hours/year
1989 - 1995	Organizer and leader for Infectious Diseases section of Introduction to Clinical Medicine, 10 hours of lecture and discussion/year (2nd Year Medical Students)

Continuing Medical Education: 8 hours teaching/year

Students and Fellows Trained

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

Patrick Ayeh-Kumi, M.Phil. Visiting Professor of Infectious Diseases (9/1/99-8/31/01). Lecturer, University of Ghana Medical School, Accra, Ghana.

Joanna M. Schaenman, B.S. - Medical scientist training program (MSTP) graduate student in Microbiology (1995 - 1999). Ph.D. 1999 entitled "Control of lectin gene expression in *Entamoeba histolytica*". Recipient of an NIH graduate student research supplement for underrepresented minorities. First place award for a graduate student research presentation at the 1996 Virginia chapter of the American Society of Microbiology meeting. Currently completing Internal Medicine Residency at Stanford University.

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. 1997 Young Investigator Award from the American Society of Tropical Medicine and Hygiene. Currently Assistant Professor, Department of Medicine, Stanford University.

James Dodson, B.S. - Graduate student in Microbiology (1991 - 1998); Ph.D. 1998 entitled "Carbohydrate binding domain of *Entamoeba histolytica* lectin" Currently Research Assistant Professor in the Center for Bioresource Development, George Mason University.

Randy Vines, B.S. - Graduate student in Microbiology (1993 -1998); Ph.D. 1998 entitled "Control of *Entamoeba histolytica* lectin". Currently Senior Research Scientist, TechLab, Inc., Blacksburg VA.

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

Girija Ramakrishnan, Ph.D. - Postdoctoral Fellow (1993 - 1997). Currently Research Associate in the Department of Internal Medicine, University of Virginia.

Jay Purdy, B.S. - Medical scientist training program (MSTP) graduate student in Microbiology (1991-1995); Ph.D. 1995 entitled "Gene regulation in *Entamoeba histolytica*". 1994 Young Investigator Award from the American Society of Tropical Medicine and Hygiene. M.D. 1997; currently fellow in Infectious Diseases, University of Iowa.

James McCoy, B.S. - Graduate student in Microbiology (1988-1993); Ph.D. 1993 entitled "Galactose lectin of *Entamoeba histolytica*". Currently postdoctoral fellow in laboratory of Dr. Jack Stapleton, M.D., Department of Medicine, University of Iowa.

Stacy Jones B.S. – Masters student in Microbiology (1999-2000). Project entitled "Transcriptional regulation in *E. histolytica*" Graduated with an MS in Microbiology. Currently enrolled in PharmD program at the University of Maryland.

Linda Saffer, Ph.D. - Research Associate (1989-1991); currently Senior Licensing Specialist for Technology Transfer, University of Maryland Biotechnology Institute

Lucia Braga, M.D. - Visiting Assistant Professor from the University of Fortaleza Brazil (1990-1992); currently Associate Professor of Gastroenterology, University of Fortaleza, Brazil.

Barbara Mann, Ph.D. - Research Associate 1988-1989; currently Associate Professor of Medicine (tenured), University of Virginia.

Current Students and Fellows

David Beck, B.S. – Graduate student in Microbiology (2000 -). Recipient of the year 2000 Veridian Pacific-Sierra Research Scientific Merit Scholarship, and recipient of a Dean's fellowship from the University of Virginia. Project entitled: Role of the cytoplasmic domain of the *Entamoeba histolytica* lectin in cell signalling.

Eric Houpt, M.D. – Postdoctoral Fellow in Infectious Diseases (1999 -). Project entitled: "Mouse model of mucosal immunity to *Entamoeba histolytica* infection".

Christopher D. Huston, M.D. – Postdoctoral Fellow in Infectious Diseases (1998 -). 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.

Carol Gilchrist, Ph.D. - Postdoctoral Fellow (1995 -). Project entitled: "Characterization of a negative regulatory element in gene expression in *Entamoeba histolytica*".

Molly Hughes, M.D., Ph.D. – Postdoctoral Fellow in Infectious Diseases (1999 -) (co-mentored with Dr. Barbara Mann). Project entitled: "Yeast 2 hybrid analysis of proteins interacting with the *Entamoeba histolytica* adherence lectin cytoplasmic domain". 2000 Young Investigator Award from the American Society of Tropical Medicine and Hygiene.

Scientific Activities

Academic Activities:

2002

Scientific Review Group
Global Infectious Diseases Program
Ellison Medical Foundation

2001 – 2003	President-elect, President, American Society of Tropical Medicine and Hygiene
2001-2004	Infectious Diseases Program Directors Committee, Infectious Diseases Society of America
2001 - Present	Parasitology Co-Editor (with Dr. John Boothroyd), “Faculty 1000”, Current Science Group, London.
2001 – 2005	Microbiology & Infectious Diseases Research Committee, NIAID, NIH
2000 - Present	Scientific Advisory Board, Symbionics, Inc.
1999 – 2004	Editor, Infection and Immunity
1999 – 2002	Scientific Program Committee & Reviewer CDC International Conference on Emerging Infectious Diseases
1998 – 2002	Member, Parasitic Diseases Panel U.S.-Japan Cooperative Medical Science Program
1999 – 2000	Member, Review Panel for the International Research Scholars Program in Infectious Diseases and Parasitology, Howard Hughes Medical Institute
2000- Present	Member of the Selection Committee, ASM/NCID Postdoctoral Research Associates Program
2000 - Present	Ad hoc reviewer for NIH NIAID Microbiology and Infectious Diseases Research Committee
1992 – 2001	Chairman, Scientific Program Committee, American Society of Tropical Medicine and Hygiene (ASTMH)
1996 - Present	Editorial Board Parasitology International
1995 - Present	Editorial Board Trends in Molecular Medicine
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>Scholarships, Fellowships, Awards:</u>	
1999	Squibb 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
1997 - Present	Glycobiology Society
1995 - Present	American Society for Clinical Investigation
1991 - Present	Southern Society for Clinical Investigation
1985 - Present	American Society for Microbiology
1985 - Present	American Association for the Advancement of Science
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; Elected Life Member 2001)

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 AFCR Outstanding Investigator Award Southern Section AFCR 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 AFCR 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

Current Grant Support

R01 AI26649-11 (PI: Petri) NIH/NIAID Title: "Structure and Function of <i>E. histolytica</i> Lectin" The major goals of this project are structural/functional studies of Gal/GalNAc lectin of <i>E. histolytica</i> .	8/1/01 - 7/31/06 (\$200,000 direct costs annually
R01 AI-43596-02 (PI: Petri) NIH/NIAID "Field Studies of Human Immunity to Amebiasis in Bangladesh" The goal of this proposal is to test whether immunity is acquired to amebiasis in children in Bangladesh.	9/15/98 – 9/14/02 \$125,528 direct costs annually
R01 AI-37941-05 (PI: Petri) NIH/NIAID Title: "Gene Expression in <i>E. histolytica</i> " The major goals of this project are to identify stability sequences on the <i>E. histolytica</i> rDNA episome and analyze the amebic lectin <i>hgl5</i> promoter.	2/1/99 - 1/31/04 \$148,667 direct costs annually
R03 TW-05655-01 (PI: Petri) Fogarty International Center Title: Regulation of rRNA transcription in <i>E. histolytica</i>	8/1/01 - 7/31/04 \$32,000 direct costs annually

The major goal of this project is to identify the rRNA promoter in *E. histolytica*

P01 AI-44962-02 (PI: Petri) 05/01/99 – 04/30/04
NIH/NIAID \$510,927 direct costs annually
Tropical Disease Research Unit : “Adherence-blocking Vaccine for Amebiasis”
The goal of this program project grant application is to develop and test an adherence-inhibitory vaccine for amebiasis.

2T32AI07046-25 (PI: Petri) 7/1/97 - 6/30/02
NIH/NIAID \$305,918 direct costs annually
Title: “Infectious Diseases Training Program”
This grant provides 5 postdoctoral and 3 predoctoral training positions in infectious diseases.

1R43 AI48341-01(PI: Lyerly) 9/1/00 - 8/31/02
NIH/NIAID \$67,568 direct costs annually
Title: “New Approaches to the Diagnosis of Amebiasis”
This grant proposal is primarily designed to develop new diagnostic reagents for
E. histolytica

BTEP ID #: 17; ISTC ID #: G-617p 6/1/01 – 5/31/04
DHHS Biotechnology Engagement Program (BTEP) \$160,000 total costs annually
NIS Principal Investigator and Institution: TRAPAIDZE, Nino; National Center for
Disease Control of Georgia; U.S. Counterpart Scientist Petri WA Jr.
Title: “Prevention of Amebiasis and creation of diagnostic test systems for *E. histolytica* strains isolated in Georgia”

Burroughs Wellcome Fund (PI: Petri) 7/1/96 - 6/30/01
Title: “Scholar Award in Molecular Parasitology” \$80,000 direct costs annually

Howard Hughes Postdoctoral Fellowship for Physicians 7/1/00 – 6/30/03
(Petri mentor for Chris Huston, M.D.) \$70,000 direct costs annually

Commonwealth Technology Research Fund Program in Mucosal Immunology. 1/1/02-12/31/04
\$1.8 million direct costs annually.

Research Interests

Entamoeba histolytica is a parasite that destroys host immune cells via contact-dependent cytolysis. No vaccine is available to prevent the approximately 50 million illnesses and 100,000 deaths annually from amebiasis. My laboratory has established at a molecular level the parasite's mechanisms of adherence to, and invasion through, the colonic epithelium. This has included the identification and purification of the amebic galactose-specific adherence lectin. This lectin is absolutely required for the contact-dependent killing of host cells for which the organism is named. We have identified colonic mucin glycoproteins as its ligand, and showed that the lectin is a protective antigen in an animal model of amebiasis. The 170 kDa and 35 kDa lectin subunits have been sequenced and expressed, and the active carbohydrate recognition site identified. We are beginning to decipher the process by which the parasite kills the host, demonstrating a *bcl-2* - independent apoptotic death pathway activated in the host at the level of caspase 3. The recent development of DNA transfection and expression systems for the parasite by my lab has enabled a reverse genetic approach to the study of amebic killing of the host. Currently our group is concentrating on the study of novel aspects of transcriptional control of lectin gene expression, the identification of domains of the lectin involved in adherence and cell killing, and the application of this information to mucosal vaccine design. These laboratory-based studies are complemented by field studies in Bangladesh, where we are investigating the human immune response to *E. histolytica*, and identifying strain-associated differences in *E. histolytica* virulence.

Community Service

Soccer Coach, Soccer Organization of Charlottesville 1992-Present
Den Leader, Cub Scouts Pack 114, 1992-Present
Trinity Church Brass Ensemble (Bass Trombone), 1995-Present
Tiger Cubs Coordinator, Cub Scouts Pack 114, 1993-4
Vacation Bible School Teacher, Third Presbyterian Church 1990-2
Tribal Chief for YMCA Indian Guides Program 1991-2

Manuscript Reviews

Editorial Boards:

Molecular Medicine Today (1995 - Present)
Invasion & Metastasis (1996 - Present)
Parasitology International (1996 - Present)
Year Book of Pathology and Clinical Pathology (1995 - 1997)
Infection & Immunity (1992 - 1995)

Ad hoc:

Science
Proc. Natl. Acad. Sci. USA
New Engl. J. Med.
J. Biological Chemistry
J. Immunology
J. Clin. Invest
Molecular & Cellular Biology
J Cell Biology
The Medical Letter
BioTechniques
J. Infect. Dis.
Infection & Immunity
Molecular & Biochemical Parasitology
European J Clin Micro Infectious Dis
Clin. Chemistry
Clin. Infect. Dis.

Parasitology Today
J. Immunol. Methods
J. Am. Soc. Trop. Med. Hyg.
J. Parasitology
Southern Medical J.
J. Eukaryotic Microbiology
Exp. Parasitology
Immunological Investigations
Molecular Microbiology
Trends in Microbiology
Parasitology Research
Antimicrobial Agents and Chemotherapy
Hybridoma
Gastroenterology
Life Sciences

Grant Reviews

Member, Tropical Medicine and Parasitology Study Section, NIH (1993-1997).
German-Israeli Foundation for Scientific Research (1997)
Human Frontier Science Program (1996)
Bacteriology & Mycology-2 Study Section, NIH, Ad hoc (1992-1996).
National Research Council Collaboration in Basic Science and Technology Program (1996).
German Federal Ministry of Research and Technology, Ad hoc (1994).
Biotechnology and Immunology Study Section, Agency for International Development (1990-1992).
Veterans Administration Merit Grants, Ad hoc (1989 - 1993).
Thrasher Research Fund, Ad hoc (1990).
Israel Academy of Sciences and Humanities, Ad hoc (1991).
Louisiana Board of Regents, Ad hoc (1990).

Committee and Administrative Appointments

Director, Infectious Diseases Training Program (1996-present)
Associate Director, Medical Scientist Training Program (1998-present)
Steering Committee, Immunology Training Program (1996-present)
Mentor, Office of African-American Affairs Faculty-Student Mentoring Program (1997-present)
Member, University Science and Technology Advisory Committee (2000-present)
Member, Review Committee, Funding Excellence in Science & Technology (2001-present)
Chair, Committee on Infectious Diseases, School of Medicine Strategic Planning Task Force (1999-present)
Executive Committee, International Training & Research in Emerging Infectious Diseases Program
Member, Clinical Medicine Committee (oversees 3rd/4th year medical school curriculum)
Oversight Committee, Lymphocyte Culture Center (1994-present)
Associate Director and Graduate Advisor, Molecular Medicine Program (1995-2000)
Research Advisory Committee, Department of Medicine (1997-2000)
Committee on Admissions, School of Medicine (1995-1999)
External Review Committee for the Department of Plastic Surgery (1998)
Graduate student Ph.D. dissertation committees: Jeff Slunt (Ph.D. in Microbiology 1996); Sam Perdue (Ph.D. in Microbiology 1996); Patrick Truman (Ph.D. in Biochemistry 1996); Monique van Hoek (Ph.D. in Microbiology 1997); Connie Grafer (1996-); Rohini Muthuswami (Ph.D. in Biochemistry 1998); Lynn Glowciski (1996-); Marc Lotano (1996-), Richard Pearce (1997-), Tonya Fuller (1997-); Denise Hampton (1997-); Kimbely Kay Jefferson (1997-), Judith Woodfolk (1997-), Hua-Poo Su (1998-); Chris Todd (1998-)
Medical Student Thesis Option Committee, School of Medicine (1996)
Internal Review Committee for the Department of Medicine (1995)
Promotions Committee, Department of Medicine (1992-1994)

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

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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.

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.

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