



New York State

INTERNATIONAL TRAINING & RESEARCH PROGRAM

NEW YORK STATE DEPARTMENT OF HEALTH, ALBANY
WADSWORTH CENTER
DIVISION OF EPIDEMIOLOGY

STATE UNIVERSITY OF NEW YORK, ALBANY
SCHOOL OF PUBLIC HEALTH

STATE UNIVERSITY OF NEW YORK, BROOKLYN
DOWNSTATE MEDICAL CENTER

SPONSORED BY:
FOGARTY INTERNATIONAL CENTER
NATIONAL INSTITUTES OF HEALTH
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GENERAL INFORMATION

This brochure describes training opportunities in AIDS/HIV, TB, STDs, hepatitis and emerging infections for individuals from Central/Eastern Europe who are interested in pursuing a career in infectious diseases. Applicants from the following countries may apply.

- * **Armenia**
- * **Estonia**
- * **Georgia**
- * **Russia**

The New York State International Training Program is a multi-institutional, multi-national collaborative effort, sponsored by the Fogarty International Center and the National Institutes of Health (NIH). The program is cooperatively administered by the Wadsworth Center and the Division of Epidemiology, New York State Department of Health (NYSDOH) at Albany; the State University of New York at Downstate Medical Center in Brooklyn; and the State University of New York School of Public Health (SPH) at Albany.

The overall program objective is to train public health and laboratory scientists, epidemiologists, clinicians, and other health professionals to deal with AIDS/HIV, TB, STDs, hepatitis and emerging infections that impact the countries of Armenia, Estonia, Georgia and Russia. Training will be provided by infectious disease specialists, clinicians and research scientists from the following partner institutions:

- **USA**

New York State Department of Health, Wadsworth Center and Division of Epidemiology
School of Public Health, University at Albany
State University of New York, Downstate Medical Center
National Development and Research Institutes
New York Blood Center
Centers for Disease Control and Prevention (CDC)

- **International**

The Communicable Disease Surveillance Centre, PHLS (for England and Wales)
The World Health Organization (WHO)

The training areas include:

Bacteriology
Behavioral Intervention
Drug Resistant Organisms
Emerging Infections
Epidemiology with a Focus on Infectious Diseases
Hepatitis
HIV/AIDS
Immunology
Nosocomial Infections
Parasitology
Sexually Transmitted Diseases
Tuberculosis
Virology

The training for each of the applicants will be tailored according to his/her interest within the parameters of the program. It is our aim that each applicant, upon returning to his/her home institution, will develop their own research program, develop and implement epidemiologic/laboratory studies, and/or spearhead improvements in diagnostics, and in enhancing existing and developing new public health programs focused on infectious disease.

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PROGRAM HIGHLIGHTS

The overall goal of the New York State International Training and Research Program is to train basic scientists, epidemiologists, clinicians, and other professionals of Central and Eastern Europe to deal with AIDS/HIV, TB, STDs, hepatitis and emerging infections that impact the countries.

A comprehensive, integrated training program is being implemented by a multi-disciplinary faculty. The program has been developed to provide in-depth training for the participants and to encourage the development of research programs for graduates of the program in their native countries.

Types of training offered:

- ***Degree Programs in Epidemiology and Biomedical Sciences***
Provide training in the U.S. leading to the degree of MS or MPH in epidemiology and biomedical sciences to clinicians, scientists, laboratorians, or other health professionals. A non-degree one year certificate program in epidemiology is also available on a limited basis. Duration of training period: 18-24 months.
- ***Postdoctoral Training***
Provide postdoctoral (usually laboratory-based) training in the US to clinicians and scientists interested in expanding their knowledge of AIDS/HIV, TB, STDs and emerging infections. Duration of training period: 12-24 months.
- ***In-Country Advanced Research Training***
The focus of training includes; transfer and application of knowledge and technical expertise; expanding research capacity; and expanding collaborative research efforts in the home institution to assist trainees in becoming independently supported scientists.
- ***In-Country Short Term Training***
Provide annual short-term infectious disease (AIDS/HIV, TB, STDs and emerging infections) training in two to three designated countries, on a rotational basis, using a workshop format to reach the largest possible number of trainees. Duration of training period: 1-5 days.
- ***Blood Safety Training***
Training opportunities in transfusion medicine, blood safety, and public health, in collaboration with New York Blood Center. The overall objectives of this training will be to acquaint the fellow with current transfusion practice and issues, provide specific experience in a hospital transfusion medicine rotation, and to discuss in detail issues of blood safety, transfusion safety, and the emerging public health role of blood centers. Duration of training: approximately 12 months.
- ***Behavioral Research Training***
National Development and Research Institutes' Center for Drug Use and HIV Research (CDUHR) oversees this internship, which is designed to provide training in community based research on drug and alcohol use. This may be offered as an independent short-term course or for a Fogarty trainee with an interest in IDU prevention and HIV/STI/ TB prevention and control methods, who is already enrolled in an MS or MPH program. Duration of training: 3-7 months.

APPLICANT REQUIREMENTS

- ***Degree Programs***

The applicant should have:

- * BA, BS, MS, MPH, MD or PhD from a college or university of recognized standing.
- * A concentration or major in the biological, medical, social or computer sciences.
- * The equivalent of at least a B average in their scholastic record.
- * Fluency in the English language (TOEFL paper exam; score of 600 or electronic test score of 250 recommended).
- * Taken the Graduate Record Exam (GRE) or Medical College Aptitude Test (MCAT).

- ***Postdoctoral Laboratory Training Programs***

The applicant should have:

- * An MD, PhD or equivalent degree from a college or university of recognized standing, and submit an official transcript from the university that awarded the degree.
- * Fluency in the English language (TOEFL paper exam; score of 600 or electronic test score of 250 recommended).
- * A minimum of 2 years relevant laboratory experience.

TRAINING AND RESEARCH PROGRAMS

- **Degree Programs**

The applicant admitted into the degree program will receive intensive training in his/her specialty. The program is part of the graduate education experience of the University at Albany, School of Public Health. The departments of Epidemiology and Biomedical Sciences offer training leading to the MS, PhD and DrPH degrees. Training leading to PhD or DrPH degrees is available on a very limited basis. Two years is generally required to complete the requirements for the MS degree, while four years or more is usually necessary to complete the requirements of the PhD or DrPH degree.

Degree Program in Epidemiology (MS)

This program is designed to develop skills and capability in the practice, research, and teaching of the discipline of epidemiology which includes an understanding of the theory, methods, and knowledge of epidemiology.

The recipient of this degree will:

- * Have a general understanding of the history, legal basis, and organization of public health practice;
- * Be able to define, compute, and interpret fundamental epidemiologic measures and explain the meaning of validity and precision in the context of epidemiologic research;
- * Have experience with techniques for collecting data and understanding and applying the principles for assessing the quality of measurement of disease exposure;
- * Understand and appropriately apply basic statistical techniques for the analysis of epidemiologic data;
- * Demonstrate the ability to interpret and present the results of epidemiologic research;
- * Have knowledge of behavioral interventions.

Degree Program in Public Health (PhD or DrPH)

This program is only available on a limited basis with advance approval (contact the program). The program provides the applicant with a broad knowledge of basic and applied infectious disease epidemiologic concepts and principles.

The recipient of this degree will be able to apply this knowledge to:

- * The biological, physical, and chemical factors that affect the health of communities;
- * The distribution of disease or conditions in populations, and factors that affect this distribution;
- * Concepts and methods of relevant social and behavioral sciences;
- * The collection, storage, retrieval, analysis, and interpretation of health data;
- * Planning, policy analysis, and administration of health programs.

Note: Applicants in both degree programs and post-doctoral programs are required to participate in mandatory intensive ethics training sessions. Subjects covered include research ethics, data management, data ownership, publications, misconduct, and intellectual property issues. Information is also provided on informed consent in human subjects' research, responsible use of animals, issues relating to genetic testing, and information and issues relating to conflicts of interest.

• Postdoctoral Training Programs

Post-doctoral training at the Wadsworth Center Laboratories in Albany offers an intensive two-year program for individuals with MD, DVM and PhD degrees or PhD candidates who will conduct research for their dissertations in both countries. Trainees work under the direction of a dedicated mentor and participate in academic functions including courses at Albany SPH, seminars, journal clubs, and research meetings. The goal of this training is for the trainee to conduct sustainable independent research at a host country institution. Wadsworth Center faculty support trainees in developing: scientific presentations; grant writing skills; a strong background in bioethics, good clinical practice and biosafety; and acquiring the fundamentals of data management, research administration, and the management of intellectual property skills.

• In-Country Training Programs

The short-term in-country training programs will be held on a yearly basis. The curriculum for each of these courses will focus on specific issues of concern to the Eastern and Central European partners. The in-country program will have a format that will utilize four faculty members from the home country and faculty members from the US Program, with additional experts (e.g., England CDSC and WHO collaborators) invited for formal presentations.

The short-term in-country programs have three goals:

- * Provide a forum for the exchange of knowledge and experience in infectious diseases from all participants;
- * Introduce participants to new laboratory and epidemiologic methods;
- * Promote the New York State International Training Program and interview potential applicants.

These short-term in-country programs will be offered in several countries per year on a rotational basis using a workshop format to reach the largest possible number of trainees.

INTERNATIONAL TRAINEES



Fogarty trainees at the Albany School of Public Health. These fellows are enrolled in the degree program, did research as post-doctoral students at Wadsworth Center Laboratories or obtained short term training.

TRAVEL INFORMATION, STIPEND AND BENEFITS

- **Visa**

The Program Director's office will supply the trainee with the necessary forms and documentation for his/her home country application.

- **Travel from Home Country**

Travel for the trainee from and to the home country will be provided by the Program Director's office. The office will purchase and mail the US carrier airline tickets to the trainee.

- **Annual Stipend**

- * SPH Trainees:

- Year 1

- \$20,200 Annually (1,600 per month for 12 months plus 1,000 advance)

- Year 2

- \$20,000 (\$2000 a month up to 10 months)

- (begins at start of second academic school year)

- * Laboratory Trainees:

- Year 1

- Pre-Doctoral

- \$22,000

- MD or PhD Degree

- \$24,000

- Year 2

- Pre-Doctoral

- \$24,000

- MD or PhD Degree

- \$26,000

- **Supplemental Stipend (Based on Professional Experience)**

Applicants with significant experience and who have published scientific articles in peer reviewed journals at the time of application may be eligible to receive a stipend supplement related to postdoctoral years of experience. Stipend supplements will be determined by the Senior Advisory Committee in accordance with the above guidelines.

- **Scientific Meetings:**

- * **SPH Trainees:**

- Travel expenses up to \$ 1,000 to attend one national scientific conference in the second year of the traineeship.

- * **Laboratory Trainees:**

- Travel expenses up to \$1,500 to attend national scientific conferences during training.

- **Program Benefits**

Health Insurance:

Individual health insurance

Tuition:

Degree Programs:

Program course work (12 credits per semester)

Post-Doctoral Programs:

Two 3-credit courses per semester

Books:

Degree Programs:

\$600 per academic year

Post-Doctoral Programs:

\$300 per academic year

Vacation:

Four weeks vacation/personal leave per year plus official holidays

CAMPUSES AND FACILITIES

- **New York State Department Health**

<http://www.health.state.ny.us>

Training is undertaken within two major entities of the New York State Department of Health (NYSDOH):

- **Wadsworth Center, Division of Infectious Disease**

<http://www.wadsworth.org>

<http://www.wadsworth.org/divisions/infdis.htm>

The Wadsworth Center, located in Albany, New York, is the most comprehensive state public health laboratory in the nation. Its public health mission encompasses basic and applied research in the biomedical and environmental fields, clinical and environmental testing, and quality assurance. In addition, education in the biomedical and environmental sciences is an important mission of the Wadsworth Center; two of the academic departments of the University at Albany's School of Public Health, the Department of Biomedical Sciences and Department of Environmental Sciences, are based at the Wadsworth Center. The Center responds to public health threats, and develops and applies the most up-to-date technologies and methods to ensure rapid, accurate detection of disease with a minimum turnaround time. Through licensure and training, the Center assures high quality performance of clinical, environmental, hospital and commercial laboratories and of blood and tissue banks that provide services to New Yorkers. The Center has over 1100 (staff and support staff), including 160 doctoral level scientists, and it receives approximately \$40 million in extramural grants and contracts annually from Federal Agencies and from private foundations. The Wadsworth Center is organized into four major scientific divisions. State-of-the-art instrumentation in the Wadsworth Center includes a federally funded microscopy and image analysis facility, a national biotechnology resource available to qualified biomedical researchers.

Core instrumentation facilities in molecular genetics, immunology, and biochemistry, imaging and molecular structure support both clinical science and research activities. Seminar programs host external speakers to the Center each week throughout the year, and a rich mix of intramural presentations in clinical and basic science provide both the permanent scientific staff and the dozens of on-site graduate students and postdoctoral trainees with opportunities to gain up-to-date information and concepts. Trainees are encouraged to participate in these seminars and especially the monthly seminar presented jointly by the Division of Infectious Disease and the Division of Epidemiology.

- **Division of Epidemiology**

<http://www.health.state.ny.us>

The mission of the Division of Epidemiology is to protect the health of all New Yorkers by providing leadership in the development and application of scientifically sound principles of epidemiology and disease prevention and control. The Division conducts disease surveillance; provides expert technical assistance; collaborates with communities, local health units, and health care professionals; and shares expertise, epidemiologic information, and knowledge, in confronting the variety of endemic, epidemic, and emerging communicable diseases.

The Division of Epidemiology is comprised of a Statistical Unit and four bureaus: Bureau of Sexually Transmitted Disease Control, Bureau of Tuberculosis Control, Bureau of HIV/AIDS Epidemiology, and the Bureau of Communicable Disease Control. The Bureau of Communicable Disease Control consists of a variety of large, high-profile programs including Immunization, Arthropod-borne Disease Control, Zoonoses, Regional Epidemiology, Infection Control and Emerging Infections Program. The Division includes over 300 staff positions and it receives millions of dollars in extramural grants and contracts from Federal Agencies for communicable disease surveillance and control.

- **University at Albany, School of Public Health**

<http://www.albany.edu/sph>

Established in 1985, the School of Public Health was created as a joint venture between the New York State Department of Health and the University at Albany, State University of New York. The New York State Department of Health is unique among state health departments in size, sophistication, and the support of both public health research and practice. Formally accredited by the Council on Education for Public Health, the School of Public Health offers four academic departments, with MPH, MS, DrPH, and PhD degrees, in the basic disciplines that constitute public health: Biomedical Sciences and Environmental Health and toxicology, Epidemiology and Biostatistics and Health Policy Management.

- **SUNY Downstate Medical Center**

<http://www.downstate.edu>

<http://www.hivcenter.org>

Formally known as The State University of New York Health Science Center at Brooklyn, SUNY Downstate Medical Center can trace its roots back to 1860, when a school of medicine was founded at the Long Island College Hospital. The new college's faculty revolutionized medical education in this country by bringing the teaching of medicine to the hospital bedside, thus rejecting the idea that physicians should be trained exclusively in university lecture halls.

Today, SUNY Downstate is one of the nation's leading urban medical centers. SUNY Downstate comprises a College of Medicine, College of Health Related Professions, College of Nursing, School of Graduate Studies, and University Hospital of Brooklyn.

University Hospital of Brooklyn (serving a population of over 2.3 million people) is Brooklyn's **only** hospital located at an academic medical center. As such, it offers the most advanced and comprehensive care in Brooklyn. Many of its physicians are regularly rated among the best in New York City. Some are known throughout the world.

With the borough of Brooklyn being so particularly hard hit by the AIDS epidemic, Downstate Medical Center has been a pioneer in AIDS care and was established to integrate and expand the multidisciplinary efforts that exist within the HIV care and research programs. It is composed of care providers and investigators with academic appointments at SUNY Downstate. Under the direction of Dr. Jack DeHovitz, the goal of the HIV Center for Women and Children is to provide first-rate interdisciplinary health care to all persons with HIV disease.

PARTNER INSTITUTIONS

- **National Development and Research Institutes (NDRI)**

<http://www.ndri.org>

National Development and Research Institutes, Inc. (NDRI) is a not-for-profit organization located in New York City and was established in 1967 to advance and utilize scientific knowledge toward innovative solutions for substance abuse, mental health problems, HIV/AIDS and related medical and social concerns, especially among high-risk populations. NDRI's focus has broadened to reflect the changing nature of urban problems and includes HIV/AIDS prevention and epidemiology, at-risk youth, correlates of urban violence, health needs of drug users, and evaluation of a broad range of service and preventive programs. The interdisciplinary staff and international network of collaborators consists of investigators with expertise in sociology, psychology, anthropology, epidemiology, ethnography, medicine, statistics, and public health. NDRI is composed of nine Institutes and Center, including a Training Institute that has delivered over 1,000 training programs to over 20,000 individuals.

- **New York Blood Center (NYBC)**

<http://www.nybloodcenter.org>

The New York Blood Center is the premier training site for specialists in transfusion medicine in New York, and offers both one- and two-year traineeships. The Center's research arm, the Lindsey F. Kimball Research Institute, is one of the world's leading centers for basic and applied research in hematology and transfusion medicine, dedicated to the study of blood and blood transfusion, and the prevention, treatment and cure of blood-borne and other diseases. Research at NYBC engages 208 scientists and staff working in 17 specialized laboratories. The Laboratory of Epidemiology is currently engaged in five large ongoing projects, three of which are part of an NIH-sponsored multi-center research program for prevention of HIV infection. The Laboratory of Molecular Diagnostics and Transfusion Transmitted Diseases are focused on nucleic acid amplification technologies for the genotyping of blood donors and for the study of infectious diseases that may be transmitted by blood transfusion. Infectious diseases currently under study include HTLV I/II, HIV, HCV, non-enveloped viruses such as Hepatitis A, as well as surveillance for transfusion transmitted diseases.

- **The Centers for Disease Control and Prevention (CDC)**

<http://www.cdc.gov>

The Centers for Disease Control and Prevention (CDC) is recognized as the lead federal agency for protecting the health and safety of people at home and abroad, providing credible information to enhance health decisions, and promoting health through strong partnerships. The CDC serves as the national focus for developing and applying disease prevention and control, environmental health, and health promotion and education activities designed to improve the health of people of the United States.

REGIONAL INFORMATION

Highlights of Major Cultural and Recreational Opportunities

- **Albany**

The Capital Region of New York State is an eight county area with unique sights and opportunities. The Capital District includes three cities Albany, Schenectady and Troy - with a combined population of over 700,000. The area provides access to many universities, major cities, and the great outdoors. It is only a 2.5, 3, and 4 hour drive, respectively, to New York City, Boston, and Montreal.

- * Albany is located near the intersection of the Hudson and Mohawk Rivers, approximately 2.5 hours north of New York City. It is the oldest continuous settlement of the nation's original 13 colonies. The introduction of Europeans to the area occurred when Henry Hudson sailed his ship the "Half Moon" up the river.
- * Local theater, music and sporting events include the Albany Symphony Orchestra, the Empire Center for the Performing Arts, Glimmerglass Opera, Capital Repertory Company, Troy Music Hall, the Lake George Opera Festival, Proctor's Theater, The Saratoga Performing Arts Center, and Tanglewood.
- * Albany is the summer residence of the NY Giants Football team.
- * Albany and the surrounding areas are home to many fine museums and galleries including the Iroquois Indian History at the New York State Museum, the Albany Institute of History and Art, the Adirondack Museum in Blue Mountain Lake, and the Clark Institute in Williamstown, MA.
- * The Saratoga State Park, known for European-style mineral baths, is located just 45 minutes north of Albany. The Saratoga Performing Arts Center, located within the park, is summer home to the Philadelphia Orchestra, the New York City Ballet, and the Newport Jazz Festival concert.
- * The Adirondack Park, a 6 million acre natural sanctuary of public and private land, encompasses a third of New York State and is the largest wilderness preserve in the continental United States. The park consists of approximately 2,500 lakes and ponds and more than 30,000 miles of rivers and streams.

- **New York City**

New York City offers the finest selection of entertainment, museums and restaurants in the world. As for landmarks, it probably still has more world-famous icons than any other city - the Empire State Building, the Chrysler Building, the Statue of Liberty, the Flatiron Building and the Brooklyn Bridge.

- * The Brooklyn Bridge is over 100 years old and was the first major suspension bridge ever built.
- * The Brooklyn Botanic Garden features over 12,000 botanical specimens, lily ponds, a magnificent Japanese Garden, Pond Garden, a conservatory of desert and tropical plants, and the country's finest bonsai collection.
- * Brooklyn Academy of Music (BAM) is the oldest continuously operating performing arts center in the country. It is home of the Brooklyn Philharmonic Orchestra, operates a 2100 seat opera house and three theaters for film, dance and concert programs, and sponsors the influential Next Wave Festival each Fall.
- * The Brooklyn Museum is the seventh largest art museum in the country. It exhibits the finest works, including an outstanding Egyptian collection, primitive artifacts from Africa and a remarkable Sculpture Garden. The Brooklyn's Children Museum features innovative exhibits on science and technology.
- * Aquarium for Wildlife Conservation/New York Aquarium is home to more than 10,000 kinds of sea life and features the Shark Tank, the Native Sea Life Building and large outdoor pool with dolphins, sea lions and penguins.

- * The Empire State Building is a building with classic Art Deco architecture and a rich history. Built in 1931, this 1,454 foot tall building has two observatories from which it is possible to see up to 80 miles away on a clear day.
- * The Metropolitan Museum of Art is one of the world's largest and finest art museums. Its collections include more than two million works of art spanning 5,000 years of world culture, from prehistory to the present and from every part of the globe. Founded in 1870, the Metropolitan Museum is located in New York City's Central Park along Fifth Avenue (from 80th to 84th Streets). Last year it was visited by 5.2 million people.
- * The Museum of Modern Art constitutes one of the most comprehensive and panoramic views into modern art in the world. From an initial gift of eight prints and one drawing, The Museum of Modern Art's collection has grown to include over 100,000 paintings, sculptures, drawings, prints, photographs, architectural models and drawings, and design objects.
- * The American Museum of Natural History is one of the world's preeminent science and research institutions, renowned for its collections and exhibitions that illuminate millions of years of the earth's evolution, from the birth of the planet through the present day. It is one of the largest natural history museums in the world, with collections comprising 30 million artifacts and specimens and over 40 exhibition halls.
- * Radio City Music Hall in historic Rockefeller Center is one of the entertainment world's most appealing and exciting venues. Radio City, one of the largest indoor theatres in the world, combines art deco elegance with the dazzling production capabilities of the world's greatest stage.

IN-COUNTRY PARTNER INSTITUTIONS AND CONTACTS

Armenia

Samvel Grigoryan, MD, Director
Yerevan State Medical University

Karen Babayan
Chair, Department of Dermatovenerology
Yerevan State Medical University
Director, Republican Center of Dermatovenerology
Head Dermatovenerologist, Armenian Ministry of Health

Russia

Andrei Kozlov, PhD
Professor, St. Petersburg State University
Director, Biomedical Center, St Petersburg

Igor Alekseevich Gorlinski, PhD
Dean, Faculty of Biology and Soil Sciences
Deputy Chairman, Public Health Program
St. Petersburg State University

Dmitry Lioznov, MD, PhD
Head, Center for Chronic Viral Infections Research
Asst. Professor, Dept. of Infectious Diseases and Epidemiology
Pavlov State Medical University

Georgia

Tengiz Tsertsvadze, MD, PhD
Director of National AIDS Center
Georgian AIDS Clinical Immunology Center

Paata Imnadze, MD, PhD
Director, National Center for Disease Control and
Medical Statistics

George Kamkamidze, MD, PHD
Head, Department of Allergy and Clinical Immunology
Rehabilitation Center

Maia Butsashvili, MD, MS
Head, Department of Infectious Disease
Rehabilitation Center

Archil Salakaia, MD, MPH, Director
Professor, Depts. of Family Medicine
Center for Tuberculosis and Lung Disease

Estonia

Anneli Uuskula, MD, PhD, MS
Chair, Dept. of Public Health
University of Tartu
Tartu

US FACULTY

Program Directors

	<u>Position</u>	<u>Interests</u>
Dale Morse, MD, MS	Director, Office of Science and Public Health, NYSDOH; Professor, Department of Epidemiology, SPH-UAlbany	Epidemiology of TB, AIDS, STD and foodborne diseases
Jack DeHovitz, MD, MPH	Professor, Department of Preventive Medicine and Community Health and Department of Medicine, Division of Infectious Diseases SUNY Downstate Medical Center Adjunct Professor, Department of Epidemiology, SPH-UAlbany	Epidemiology and natural history of HIV disease

Faculty holding appointments at Wadsworth Center/NYSDOH and/or SPH in Albany

David Anders, PhD	Research Scientist Associate Professor, Biomedical Sciences	Molecular biology and pathogenesis of human herpes viruses/cytomegalovirus
Marlene Belfort, PhD	Director, Division of Genetic Disorders Professor, Biomedical Sciences	Investigate the mechanism of action of gene applied to the prevention and treatment of disease
Kristen Bernard, DVM, PhD	Research Scientist, Arboviral Pathogenesis Laboratory Assistant Professor, Biomedical Sciences	Pathogenesis of arboviruses
Harold Burger, PhD, MD	Co-Director, HIV Research Laboratory Professor of Medicine, Albany Medical College	Viral and molecular determinants of HIV pathogenesis; mother-to- child HIV transmission; rates of disease progression in infected individuals
Sudha Chatuverdi, PhD	Research Scientist, Fungal Diseases Laboratory Assistant Professor, Biomedical Sciences	Protein trafficking, fungal pathogenesis and molecular epidemiology
Vishnu Chaturvedi, PhD	Director, Fungal Diseases Laboratory Assistant Professor, Biomedical Sciences	Unique fungal metabolites, fungal- phagocyte interactions, molecular epidemiology
Keith Derbyshire, PhD	Research Scientist, Mycobacterial Disease Laboratory Professor, Biomedical Sciences	DNA rearrangements and recombination in mycobacteria
Jan Keithly, PhD	Chief, Laboratory of Fungal and Parasitic Disease Associate Professor, Biomedical Science	Drug discovery against parasites; biochemistry and molecular biology of parasite metabolic pathways
Laura Kramer, PhD	Director, Arbovirus Laboratory; Associate Professor, Biomedical Sciences	Epidemiology, ecology, biology of vector-borne diseases; viral evolution
David Lawrence, PhD	Chief, Laboratory of Clinical and Experimental Endocrinology and Immunology Professor, Biomedical Sciences	Infection-induced sickness behavior and role of cytokines and environmental agents; balance between resistance to infections and autoimmune diseases
Ron Limberger, PhD	Chief, Laboratory for Bacterial Disease Assistant Professor, Biomedical Sciences	Basic and applied aspects of STDs
Paul Masters, PhD	Chief, Laboratory of Viral Diseases Associate Professor, Biomedical Sciences	Assembly, replication and pathogenesis of coronaviruses
Kathleen McDonough, PhD	Research Scientist, Bacterial Pathogenesis Laboratory Associate Professor, Biomedical Sciences	Pathogenesis of tuberculosis and plague

Monica Parker, PhD	Director, Viral Genotyping/Pathogenomics Laboratory	Prevalence and analysis of drug resistance in HIV and HCF; methodologies for detecting genetic variation in viral pathogens
Arlene Ramsingh, PhD	Research Scientist, Coxsackie Laboratory Assistant Professor, Biomedical Sciences	Pathogenesis of coxsackievirus infections
Max Salfinger, MD	Chief, Bureau of Laboratories, Florida Department of Health Professor, Biomedical Sciences Adjunct Professor of Medicine, Albany Medical College	Tuberculosis
Pei-Yong Shi, PhD	Research Scientist, West Nile Virus Replication Laboratory Associate Professor, Biomedical Sciences	Replication, packaging and pathogenesis of flaviviruses
Kirsten St. George	Director, Viral Reference and Surveillance and Viral Genotyping	Antiviral drug resistance; viral evolution; impact of new technologies in clinical testing on public health
Harry Taber, PhD	Director, Division of Infectious Disease Professor, Biomedical Sciences	Tuberculosis
Norma Tavakoli, PhD	Director, Viral Encephalitis Laboratory	Detection of agents that cause encephalitis/meningitis
Charles Trimarchi, MS	Chief, Laboratories for Zoonotic Diseases and Clinical Virology	Rabies diagnostic methods; rabies epizootiology; bat rabies; wildlife rabies control
Wayne Triner, DO, MPH, FACEP	Department of Emergency Medicine, Albany Medical College	Ethics in emergency research
Barbara Weiser, MD	Co-Director, HIV Research Laboratory; Professor of Medicine, Albany Medical College	Viral and molecular determinants of HIV pathogenesis; mother-to-child HIV transmission; rates of disease progression in infected individuals

Faculty holding joint appointments in the Division of Epidemiology/NYSDOH and SPH in Albany

Guthrie Birkhead, MD, MPH	Associate Professor, Epidemiology Director, Center for Community Health and AIDS Institute	HIV/AIDS emerging infections
Bruce Coles, DO	Director, Bureau of STD Control	Congenital syphilis, HIV seroprevalence and <i>Chlamydia</i> infection
Louise-Anne McNutt, PhD	Associate Professor, Epidemiology	Infectious disease epidemiology, quantitative methods
Margaret Oxtoby, MD	Director, Bureau of TB Control	TB epidemiology and control activities
Perry Smith, MD	Director, Division of Epidemiology Assistant Professor, Epidemiology	NYSDOH infectious disease control activities
Rachel Stricof, MPH	Research Scientist; Assistant Professor, Epidemiology	TB and nosocomial control measures in health care facilities
P. Clay Stephens	Director, Prevention Science and Applied Epidemiology Division of HIV Prevention, AIDS Institute Assistant Professor, Epidemiology	Harm reduction
Barbara Wallace, MD, MPH	Director, Bureau of Communicable Disease Control; Assistant Professor, Epidemiology	General infectious disease activities
Dennis White, PhD	Director, Arthropod-Borne Disease Program; Associate Professor, Epidemiology	Tick-borne diseases

Faculty at the Downstate Medical Center in Brooklyn

Michael Augenbraun, MD	Associate Professor Division of Infectious Disease, Department of Medicine/Department of Preventive Medicine and Community Health	Infection control, Hepatitis C transmission, STD control
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Jeffrey Birnbaum, MD	Director of Adolescent Services; Assistant Professor of Clinical Pediatrics and Preventive Medicine	HIV infected youth and high risk youth
Joseph Feldman, PhD	Professor, Department Preventive Medicine and Community Health	Epidemiology of HIV and predictors of HIV transmission
Susan Holman, MS	Assistant Clinical Professor, Preventive Medicine and Community Health	HIV prevention, Women's Health
Sheldon Landesman, MD	Professor, Division of Infectious Diseases, Department of Medicine Assistant Dean, Clinical Medical Education	Perinatal transmission of HIV control measures in health and TB care facilities
William McCormack, MD	Professor, Department of Medicine; Chief, Infectious Diseases	STD diagnosis, treatment, and epidemiology
Howard Minkoff, MD	Distinguished Service Professor, Department of Obstetrics and Gynecology; Chairman, Obstetrics and Gynecology, Maimonides Medical Center	Natural history of HIV infection in women and perinatal transmission HIV
Anjali Sharma, MD, MS	Assistant Professor of Medicine, Division of Infectious Diseases	Infectious Diseases, HIV infection in IDUs
Scyatta Wallace, PhD	Assistant Professor, Preventive Medicine and Community Health	Culturally competent HIV prevention
Tracey Wilson, PhD	Associate Professor, Preventive Medicine and Community Health	Behavioral intervention to reduce HIV risk

Faculty at the New York Blood Center (New York City)

Jay E. Valinsky, PhD	Vice-President, Information and Technology	Prevention of HIV/HCV transfusion- transmission, blood safety
Robert Reiss, MD	Vice-President and Chief Medical Officer	Transfusion Medicine
Vislam Chandrasekaran, MD	Vice President, Medical Operations	Transfusion Medicine, Medical Education Programs

Faculty at the National Development and Research Institutes, Inc. (NDRI) in New York City

Sherry Deren, PhD	Director, Center for Drug Use and HIV Research & Institute for AIDS Research	HIV risk behavior and drug use
Don C. DesJarlais, PhD	Director of Research, Chemical Dependency Institute, Beth Israel Medical Center; Professor of Epidemiology, Albert Einstein College of Medicine;	Interventions to prevent IDU-mediated HIV transmission
Holly Hagan, PhD, RN	Deputy Director, Center for Drug Use and HIV Research	Injection drug use and hepatitis transmission

APPLICATION PROCEDURE CHECKLIST

• *Laboratory-Based Training*

Applicants for a traineeship in laboratory-based training should submit the following items to Christine Geer (at the address below):

- * Curriculum vitae
- * Three letters of recommendation:
 - Two letters from institutional representatives
 - One letter from the in-country contact
- * A description of how the applicant intends to apply the skills and knowledge resulting from the research project to ongoing research in his/her home country upon re-entry. A description of the proposed research project (limit to 2 pages).
- * A photocopy of the applicant's transcript from a college or university of recognized standing.
- * A letter from the U.S. mentor outlining and supporting the research project (may be submitted directly by the mentor to the Program Director).
- * A signed Acknowledgement Form (see page 18 of this brochure).

• *University-Based Training*

Applicants for a traineeship to pursue a degree at the School of Public Health, University at Albany should forward a letter of referral from his/her in-country contact to Dana Turner. He/she should also visit the University website listing to view a copy of the University application form and procedure (<http://www.albany.edu/sph/information/admissions.htm>).

Part 1: Applying to the Fogarty Program

- * Meet with in-country contact to discuss letter of interest/intent.
- * Obtain letter of recommendation from in-country contact, or request in-country contact to correspond with a Program Director, by e-mail, telephone, or post.
- * Submit letter of intent/letter of interest to Program Director (either Dr. Dale Morse or Dr. Jack DeHovitz).
- * If possible, arrange to meet with Program Director during in-country recruitment visits.
- * GRE, Graduate Record Exam.
- * TOEFL, Test of English as a Foreign Language.
- * Interview with in-country partner contact in home country.
- * Contact Dr. Morse or Dr. DeHovitz for a preliminary assessment of the proposed study program.
- * Provide a letter of support from home institution.
- * Provide a signed Acknowledgement Form (see page 18 of this brochure).

Part 2: Applying to SUNY Albany School of Public Health

- * The Program Coordinator will advise on appropriate time and method to submit an application to the University.

Application Submission:

For the laboratory-based training program, applications are received and reviewed by the selection committee throughout the year; trainees generally begin the program in the summer or fall.

For the university-based training program, applications are received and reviewed by the selection committee; trainees begin the program in the fall.

The above items, including a cover letter from the applicant indicating his/her reason(s) for pursuing a New York State International Fellowship, should be forwarded to the appropriate Program Coordinator at the following addresses:

Laboratory-Based Training:

Christine Geer
New York State Department of Health
Wadsworth Center, David Axelrod Institute
120 New Scotland Avenue
Albany, NY 12208 USA
Tel: 518-408-2063
Fax: 518-408-2147
Email: cmg06@health.state.ny.us

University-Based Training:

Dana Turner
Downstate Medical Center
STAR Program
450 Clarkson Avenue, Box 1240
Brooklyn, NY 11203 USA
Tel: 718-270-4571
Fax: 718-270-2440
Email: dana.turner@downstate.edu

Acknowledgement Form

The overall objective of the New York State International Training Program administered by the New York State Department of Health and the State University of New York, is to train laboratory scientists, epidemiologists, clinicians, and other health professionals to build global research capacity to help prevent AIDS/HIV, TB, STDs, hepatitis and emerging infections that impact the countries of Armenia, Estonia, Georgia, and Russia in Central/ Eastern Europe. The Program is a multi-institutional, multi-national collaborative effort sponsored by the National Institutes of Health (NIH) Fogarty International Center (FIC). Training will be provided by infectious disease specialists and research scientists from the following collaborating institutions:

- New York State Department of Health, Wadsworth Center, Division of Epidemiology
- State University of New York, Downstate Medical Center
- School of Public Health, University at Albany
- National Development and Research Institutes
- New York Blood Center
- Centers for Disease Control and Prevention

I certify that the information provided to the selection committee of the New York State International Training Program administered through the New York State Department of Health and the State University of New York, in application for a traineeship, is complete and accurate to the best of my knowledge. I understand that the final approval of my application and my status as a program grantee is dependent on my ability to receive and maintain a US Visa. As a condition of being accepted into the New York State International Training Program:

- I agree, upon the conclusion of the traineeship training program (12-24 months), to return to my home country and institution for a period of time equivalent to that of the New York State International Program training period.
- I agree not to seek letters of recommendation until the completion of the in-country service, except for letters of recommendation for in-country courses.
- I further agree, when requested, to provide the program office with updated information to be used for tracking program outcomes and effectiveness.

Name (please print): _____

Telephone: _____

Fax: _____

E-mail: _____

Country: _____

Signature: _____

Date: _____

Home Institution: _____

Name of Home Country Mentor/Supervisor (please print): _____

Approval: Mentor/Supervisor (signature): _____