“This program allowed me to expand upon my previous research experience and gave me opportunities to learn new skills in and outside of the laboratory. My previous experience was in an academic research environment, but this program has allowed me to work on public health applied research projects.”
– Class 16 Training Fellow Kathy Seiber, CDC Division of Foodborne, Waterborne & Environmental Disease, currently participating in CDC Public Health Prevention Services (PHPS)

“The fellowship provided me with the necessary basis for a successful career in public health.”
– Class 10 Training Fellow Mylene Mozafarzadeh, California Department of Health Services

“I got a well-rounded fellowship experience in terms of my laboratory skill set, and was also able to make some great contacts that I hope serve me well in the future.”
– Class 16 Training Fellow Jordan Estes, State Hygienic Laboratory at the University of Iowa, currently working in the Molecular Virology Department at the Delaware State Public Health Laboratory

“The EID Fellowship Program and my host laboratory have provided me an abundance of experiences and skills to prepare me for a long career in public health.”
– Class 10 Research Fellow Scott Shone, New Jersey Department of Health and Senior Services. Shone is currently the Newborn Screening Program Manager at the laboratory.

“I wanted to do applied research, not pure research, but I had never touched a tick in my life. I got into the project and really enjoyed it. I networked with health professionals all over the state. I learned the very practical side of public health laboratory work.”
– Class 3 Research Fellow and Program Mentor Leslie Wolf, North Carolina State Laboratory of Public Health. Wolf is now Director of the laboratory.
The Emerging Infectious Diseases (EID) Laboratory Fellowship Programs train and prepare scientists for careers in public health laboratories and support public health initiatives related to infectious diseases. The Centers for Disease Control and Prevention (CDC) and the Association of Public Health Laboratories (APHL) are pleased to present the 2011 EID Fellows associated with the Emerging Infectious Diseases (EID) Laboratory Fellowship.

**EID Advanced Laboratory Training Fellowship**

This is a one-year program designed for bachelor’s and master’s level scientists, with emphasis on the practical application of technologies, methodologies, and practices related to emerging infectious diseases. Fellows participate in an orientation session at CDC in Atlanta to gain a general understanding of the public health laboratory system and how it relates to infectious disease surveillance, prevention, research, and control. Fellows are placed in local, state, and federal (CDC) public health laboratories and receive advanced infectious disease laboratory-related training. The training is customized for each fellow based upon areas of infectious disease interest, high priority laboratory personnel needs, and host laboratory capabilities. A specific objective-based curriculum is developed for each fellow focusing on areas such as: vaccine-preventable diseases, drug-resistant pathogens, molecular methods, vector-borne or zoonotic diseases, foodborne and waterborne illnesses, sexually transmitted diseases, imported infections, computer and systems support, applications of vector or animal control, and diagnostic testing methods and instrumentation.

**EID Postdoctoral Laboratory Research Fellowship**

This is a two-year program designed for doctoral level (PhD, MD, or DVM) scientists with an emphasis on research of development in infectious diseases. Fellows participate in an orientation session at CDC in Atlanta to gain a general understanding of the public health laboratory system and how it relates to infectious disease surveillance, prevention, research, and control. Fellows are placed in local, state, and federal (CDC) public health laboratories to conduct approved research. Fellows conduct applied research or development in areas relevant to public health including, but not limited to, development and evaluation of diagnostic and subtyping techniques, antimicrobial sensitivity and assessment of mechanisms of resistance, principles of vector or animal control, and improved methodologies for environmental sampling, testing, and evaluation.

For more information about the EID Laboratory Fellowship Programs, see [www.aphl.org/fellowships](http://www.aphl.org/fellowships) or email fellowships@aphl.org.
About APHL
The Association of Public Health Laboratories (APHL) is a national nonprofit dedicated to working with its members to strengthen governmental laboratories with a public health mandate. APHL’s mission is “To promote the role of public health laboratories in shaping national and global health objectives, and to promote policies, programs and technologies that assure continuous improvement in the quality of laboratory practice and health outcomes.”

APHL’s core membership is comprised of public health, environmental and agricultural laboratories. Representatives from federal agencies, nonprofit organizations, corporations and interested individuals also participate in the association. APHL is a nonprofit, 501(c)(3) organization with a history of more than 50 years.

APHL works collaboratively with a diverse array of national, international, public and private partners to formulate and advocate for sound public health and environmental policies. APHL offers training and fellowship programs designed to prepare future leaders in public health laboratory practice. APHL is recognized nationally and internationally for excellence in cost-effective training and continuing education programs offered through its National Laboratory Training Network, a collaborative effort with the CDC.

About CDC
The Centers for Disease Control and Prevention (CDC), located in Atlanta, Georgia, is an agency of the US Department of Health and Human Services. It promotes health and quality of life by preventing and controlling disease, injury, and disability.

CDC’s mission is “To collaborate to create the expertise, information, and tools that people and communities need to protect their health—through health promotion, prevention of disease, injury and disability, and preparedness for new health threats.”
**Catherine Kasia Baranowski**

**Highest Degree:** BA, Molecular Biology and Genetics, Skidmore College, Saratoga Springs, NY

**Host Laboratory:** Wadsworth Center, New York State Department of Health, Albany, NY

**Primary Mentor:** Joseph T. Wade, PhD

**Fellowship project:** My fellowship project focuses on small antisense RNAs found in *Salmonella enterica*. Specifically, I will study those RNAs associated with virulence genes encoded in *Salmonella* pathogenicity island-1 (SPI-1), which encodes a type III secretion system. This system is responsible for many proteins that act in concert to cause the uptake of *Salmonella* by host cells during infection. Due to their nature and role in infection, it is expected that the genes within SPI-1 are dynamically and carefully regulated through the action of small RNAs. I will validate the existence of putative asRNAs within SPI-1 and investigate their physiological roles.

**Future Plans:** “After the fellowship program, my goal is to attend graduate school. My ultimate aim is to contribute to public health through research. The EID fellowship has revealed many exciting opportunities in public health.”

**Jade Braman**

**Highest Degree:** MPH, Veterinary Public Health, The Ohio State University, Columbus, OH

**Host Laboratory:** New York State Department of Agriculture & Markets, Food Laboratory Division, Albany, NY

**Primary Mentor:** Brian Sauders, PhD

**Fellowship project:** During the fellowship year, my laboratory training will focus on a number of related areas involving the detection and molecular subtyping of foodborne and zoonotic pathogens. These projects will provide an opportunity to experience public health food microbiology from a regulatory perspective while developing strong skills in the culture, detection, identification, and fingerprinting of pathogens of public health concern. I will also receive substantial training and experience with method development and validation studies.

**Future Plans:** “Upon completion of the fellowship, I plan to pursue a career as a public health scientist, specifically as a microbiologist, with a focus on zoonotic and foodborne pathogens. With the experience gained as an EID fellow, I hope to be able to determine if I would like to continue my education and pursue a doctoral degree in infectious disease microbiology, with the ultimate goal of becoming a senior scientist within a country or state public health laboratory. Throughout my career as a laboratory scientist, I hope to have a positive impact on the health of the community through prevention and control of zoonotic diseases in both animal and human populations.”
Terry DuBravac

**Highest Degree:**
BS, Biology, Washington State University, Vancouver, WA

**Host Laboratory:**
State Hygienic Laboratory at the University of Iowa, Iowa City, IA

**Primary Mentor:** Thomas Gahan, BS, MT

**Fellowship project:** The State Hygienic Laboratory (SHL) provides a number of STD testing services for Iowa point of care facilities. The primary objective of the project will be to become familiar with the different STD testing services provided by the SHL, as well as the various protocols required as the state’s public health laboratory. The project will place a special emphasis on Human Immunodeficiency Virus testing and will include the validation of new methods for HIV combo testing.

**Future Plans:** “After the fellowship, I plan on returning to school to complete my master’s degree studying Immunology at the University of Washington in Seattle. My goal is to become involved in HIV vaccine research to eliminate the disease, as has been done with smallpox and polio. I anticipate that the fellowship will put me well on my way to completing those goals.”

Sarah E. Kleinstein

**Highest Degree:**
MS, Genetic Epidemiology, University of Washington, Seattle, WA

**Host Laboratory:**
Microbial Diseases Laboratory, California Department of Public Health, Richmond, CA

**Primary Mentor:** Will Probert, PhD

**Fellowship project:** Outbreak investigation (utilizing PCR and sequencing) into the identification and evolution of a resistance gene in a MDR strain of Salmonella typhimurium.

Development of resistance gene typing methods for Acinetobacter baumannii using RFLPs of insertion elements and multiplexed PCR. Strain typing using MLVA will also be validated against the gold standard of PFGE.

Validation of a new CPN60 test for implementation as a tool for broad range sequence-based bacterial identification.

**Future Plans:** “Following the fellowship, I plan to pursue a PhD in the field of microbiology or immunology. After obtaining my PhD, I intend to pursue a career as a research scientist in public health. The knowledge, training and experience I will receive during my fellowship will enable me to find my passion in public health, while simultaneously offering a wide range of public health exposures that would not otherwise be possible to experience.”
Zachary Kloos

Highest Degree: BS, Biochemistry, Case Western Reserve University, Cleveland, OH

Host Laboratory: Wadsworth Center, New York State Department of Health, Albany, NY

Primary Mentor: Kathleen McDonough, PhD

Fellowship project: Mycobacterium tuberculosis, the causative agent of tuberculosis, continues to pose a major threat to public health, infecting approximately one-third of the world’s population and causing significant morbidity and mortality among those infected. The emergence of drug resistance in this bacterium necessitates studies of transcriptional regulation to identify novel drug targets. I will therefore spend the duration of my fellowship studying the mechanism by which transcription of the virulence-associated ilvB1 gene is regulated in M. tuberculosis.

Future Plans: “I plan to attend medical school, where I hope to remain involved in basic science research related to infectious diseases.”

Ashley V. Kondas

Highest Degree: BA, Cell Molecular Biology, Washington and Jefferson College, Washington, PA

Host Laboratory: Rickettsial Zoonoses Branch, Division of Vector-Borne Diseases, National Center for Emerging and Zoonotic Infectious Diseases, CDC, Atlanta, GA

Primary Mentor: Gilbert Kersh, PhD

Fellowship project: Coxiella burnetii is the causative agent of Q Fever in humans with only one bacterium needed to cause infection. During my fellowship, I will evaluate the health risk posed by C. burnetii in St. Paul, Alaska by assessing the levels of the organism in the environment and seal placentas by Real Time PCR, and the reactivity of human serum with IFA. I will assist in the sample testing of the June 2011 outbreak.

Future Plans: “After the EID Fellowship, I plan on continuing a career in the field of public health, focusing on infectious diseases. In the future, I plan to pursue a master’s degree in public health.”
Jimmy Lam

Highest Degree:
BS, Nutritional Sciences, Cornell University, Ithaca, NY

Host Laboratory:
New York City Department of Health and Mental Hygiene Public Health Laboratory, New York, NY

Primary Mentor: Jennifer Rakeman, PhD

Fellowship project: Rotate through the microbiology, environmental/toxicology, and virology unit. Acquire and establish independence in diagnostics, identification, and characterization of infectious agents (e.g., Shigella, Vibrio spp., Salmonella, Staphylococcus, Streptococcus, Neisseria gonorrhoeae, hepatitis, HIV, lead, and asbestos).

Validate the Trek Sensititre instrument to determine the minimal inhibitory concentration of first and second line drugs used to treat Mycobacterium tuberculosis. Genotype for drug-resistant strains.

Participate in the transitioning phase towards the new STARLIMS laboratory information system.

Future Plans: “Following this fellowship, I will pursue a dual degree in public health and medicine. Ultimately, I will focus my career at the interface between public health sciences and health administration with particular emphasis on infectious diseases.”

William A. Murtaugh

Highest Degree:
BS, Biology, Syracuse University, Syracuse, NY

Host Laboratory:
Maryland Department of Health and Mental Hygiene, Baltimore, MD

Primary Mentor: Maria Paz Carlos, PhD, DVM

Fellowship project: My project will be based in the Division of Virology and Immunology with a focus on the detection of enteroviruses and respiratory viruses circulating in the state of Maryland, including respiratory syncytial virus, parainfluenza viruses, adenoviruses, and influenza virus. I will implement an influenza neuraminidase inhibition assay for phenotypic detection of drug resistance. Moreover, I will be involved in laboratory surveillance testing programs for arboviruses.

Future Plans: “In order to develop and apply leadership in the organization and function of a state public health laboratory, I plan to continue with my graduate studies and complete a dissertation in a state public health laboratory under the mentorship of a laboratorian. Ultimately, I am interested in obtaining the credentials to be a board certified laboratory director.”
Cori Pflugradt

Highest Degree: MSPH, Tulane University School of Public Health & Tropical Medicine, New Orleans, LA

Host Laboratory: Florida Department of Health Bureau of Laboratories, Tampa, FL

Primary Mentor: Lillian M. Stark, PhD

Fellowship project: My fellowship will consist of hands-on training in several departments using both classical and molecular techniques, which include but are not limited to: HAI, DFA, cell culture, viral isolation, viral extraction, bacteriological identification, ELISA, RT-rtPCR, pyrosequencing. I will rotate through such sections of the lab as biological defense, arbovirology, molecular virology, serology, tissue culture, microbiology, parasitology, and epidemiology—gaining a broad understanding of work in the public health laboratory. I will also obtain a technician license as a public health laboratory scientist so that I may also work with clinical specimens.

Future Plans: “After my fellowship, I plan to continue working in the field of public health. I hope to continue working at the local or state level in preventing the spread of infectious diseases. My hands-on-training in this fellowship will bolster my educational experience and help me to be a more effective and knowledgeable scientist in my field.”

Tim Rindfleisch

Highest Degree: BS, Molecular Biology, University of Wisconsin, Platteville, WI

Host Laboratory: Washington State Public Health Laboratories, Shoreline, WA

Primary Mentor: Brandon Troy Leader, PhD

Fellowship project: The fellowship will involve the development and testing of a pyrosequencing assay protocol for rapidly screening strains of multi-drug resistant Mycobacterium tuberculosis (MDR TB). Additionally, the assay will become more sensitized as additional target sequences are included to detect second line drug resistance. This new assay’s implementation will result in faster turnaround time of results, lower testing costs, aid in managing current TB cases, and identify emerging strains of TB into Washington State.

Future Plans: “After completing my fellowship, I will be pursuing a graduate degree in biotechnology. The knowledge and experience that I will gain from this fellowship will be invaluable for pursuing a career in global health.”
**Alessandra M. Rodriguez**

**Highest Degree:** MPH, Concentration: Global Communicable Disease, University of South Florida, Tampa, FL

**Host Laboratory:** New Mexico Department of Health, Scientific Laboratory Division, Albuquerque, NM

**Primary Mentor:** Adam Aragon, MS

**Fellowship project:** My fellowship project will involve the development and validation of a multiplex qRT-PCR for West Nile Virus, St. Louis Encephalitis Virus, and Western Equine Encephalitis Virus. Once the first assay is validated, the project will continue with the development of multiplex qRT-PCR for various other arboviruses that are of public health concern in New Mexico. The project will also include the validation of the Tecan EVO 100 platform for use in the extraction of mosquito pools.

**Future Plans:** “After the fellowship, I hope to attend a doctoral program in public health, continuing within the infectious disease concentration. I am interested in learning more about how environmental factors affecting the vector impacts arboviral transmission within the human population.”

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**Caitlin E. Saucier**

**Highest Degree:** BS, Zoology and French, University of Wisconsin-Madison, Madison, WI

**Host Laboratory:** Hawaii Department of Health, State Laboratories Division, Pearl City, HI

**Primary Mentor:** A. Christian Whelen, PhD

**Fellowship projects:** I will rotate through the virology, medical microbiology, and bioterrorism preparedness sections to understand the fundamental functions of a state public health laboratory. I will be involved in three major projects:

- Develop and validate methodology for detection of Angiostrongylus spp. (rat lungworm);
- Develop methodology using the Luminex platform for molecular serotyping of Salmonella;
- Compare analysis of respiratory diseases using a new platform, the ViiA7 real-time PCR system, vs. existing strategies.

Additionally, I will collaborate on a grant-writing effort to receive funding for an undergraduate internship program, assist with legislative planning, and participate in bioterrorism surveillance activities during the Asia-Pacific Economic Cooperation annual meeting in Honolulu.

**Future Plans:** “I would like to combine my new knowledge in the field of public health laboratory science with my interest in writing and public policy. After I complete my EID fellowship, I will seek employment that allows me to further develop these skills. I eventually plan to return to school for a degree that combines public health with either journalism or public policy.”
**Samuel S. Stewart**

**Highest Degree:**
BS, Microbiology, University of Texas at Austin, Austin, TX

**Host Laboratory:**
State Hygienic Laboratory at the University of Iowa, Iowa City, IA

**Primary Mentor:** Jeff Benfer, ASCP MBcsm

**Fellowship project:** My project will allow me to gain an extensive understanding of how molecular biology is currently used in a public health setting. Specifically, I will determine the efficacy of several new Respiratory Syncytial Virus (RSV) rapid tests and compare the results to the validated real-time PCR assay used by the State Hygienic Laboratory. It is my intent to use the data collected to write a paper to be published in a peer-reviewed journal.

**Future Plans:** “Following the completion of my fellowship, I plan on pursuing a PhD in pathobiology focusing on infectious disease processes. I would then like to perform research in a public health setting where I can have a positive impact on the health of my community.”

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**Margot Stuchin**

**Highest Degree:**
BA, Environmental Biology, Columbia University, New York, NY

**Host Laboratory:**
Colorado Department of Public Health and Environment, Laboratory Services Division, Denver, CO

**Primary Mentor:** Hugh Maguire, PhD

**Fellowship project:** My fellowship activities will consist of hands-on training in the Molecular Science, Serology, Public Health Microbiology, and Environmental Microbiology laboratories. Concurrently, I will be working on the development, validation, and implementation of a molecular-based testing algorithm for the detection and strain typing of rabies virus in infected animals. The resulting protocols will be useful for Colorado’s rabies surveillance program and for tracking the appearance and migration of skunk rabies throughout the state.

**Future Plans:** “After completing this fellowship, I plan on attending graduate school and continuing to pursue a career in public health.”
Annica R. Stull-Lane

**Highest Degree:**
BA, Biology, Oberlin College, Oberlin, OH

**Host Laboratory:**
Vector-Borne Diseases Laboratory, Tennessee Department of Health, Nashville, TN

**Primary Mentor:** Abelardo Moncayo, PhD

**Fellowship project:** My fellowship involves exposure to both laboratory and epidemiology work as they relate to public health. My research project in the vector-borne diseases lab seeks to identify the significantly different clinical presentations of tick-borne spotted-fever group rickettsioses in patients from Tennessee. The specific objectives include:

- Determining the causative *Rickettsia* spp. agent(s) of human serum samples through use of indirect immunofluorescence assays;
- Designing a questionnaire to systematically extract relevant patient symptoms, clinical lab results, and other clinical information from case report forms and medical chart records;
- Determining clinical manifestation profiles for different spotted fever-group rickettsiae.

**Future Plans:** “After the EID fellowship, I plan on pursuing a multidisciplinary career where I combine applied public health research and clinical work, with a specific focus on underserved communities at the local, national, and international levels. I hope to deepen my knowledge of infectious disease and environmental health as it relates to community well-being through a combined program granting both research and medical degrees. The knowledge and experiences in public health laboratory and epidemiology work gained from the EID fellowship will certainly prepare me for my next steps in education, research, and practice.”

Anh C. Tran

**Highest Degree:**
BS, Neuroscience, BA, Psychology, University of Minnesota, Minneapolis, MN

**Host Laboratory:**
Wadsworth Center, New York State Department of Health, Albany, NY

**Primary Mentors:** Vincent Escuyer, PhD; Kimberlee Musser, PhD

**Fellowship project:** My fellowship consists of learning about the epidemiology of mycobacterium, specifically *Mycobacterium tuberculosis*, and the classical and molecular techniques used in mycobacterium diagnosis. Specific projects include:

- Develop and validate a multiplex real-time PCR assay for detection of and differentiation between *Mycobacterium tuberculosis* complex and *Mycobacterium avium* complex in clinical specimens;
- Develop and validate a pyrosequencing assay for identification of selected drug resistance in *Mycobacterium tuberculosis* in clinical specimens.

**Future Plans:** “After completing the EID fellowship, I plan to continue my career in public health by pursuing advanced degrees in medicine and business. With knowledge, skills, and education across three disciplines – medicine, business, and public health – I hope to become a leader in the research and development of new and innovative medical devices and diagnostic tests.”
Michelle B. Landes

Highest Degree:
PhD, Microbiology,
The Ohio State University, Columbus, OH

Host Laboratory: Tennessee Department of Health, Laboratory Services, Nashville, TN

Primary Mentor: Brock Neil, PhD, TS(ABB)

Fellowship project: My fellowship will be dedicated to understanding how a public health department operates. This will include rotating through departments as well as attending upper level management meetings. I will serve on the Bioterrorism Emergency Response Team, where I will become proficient in identifying select agents. My clinical and research projects include: implementing the CDC approved protocol for mumps qRT-PCR, the influenza surveillance program, and determining the optimal time period to store samples for serum banking.

Future Plans: “I plan to take the ABB examination for public health microbiology to become certified as a public health laboratory manager. Upon successful completion, I plan to gain experience in the public health department by becoming a laboratory manager. This will allow me to become eligible to take the ABB examination for certification as a Bioanalyst Clinical Laboratory Director and obtain my final goal of becoming a public health department laboratory director.”

Syreeta Miles

Highest Degree:
PhD, Environmental Sciences, University of Arizona, Tucson, AZ

Host Laboratory: Los Angeles County Public Health Laboratory, Downey, CA

Primary Mentor: Nicole Green, PhD, D(ABMM)

Fellowship project: It is estimated that foodborne illness affects more than 76 million people annually. My research projects will include verification of molecular Salmonella serotyping using bead-based microarray and assisting in verification studies for bacterial identification by MALDI-TOF. Once implemented, these assays will lead to rapid identification and characterization of foodborne pathogens. In addition, I will complete the public health microbiologist training program and rotate through all laboratory sections as required by the state of California to receive certification.

Future Plans: “Upon completion of this fellowship, I will use the invaluable practical experience and management training I gained thus far to continue in furthering my career as a public health microbiologist and, ultimately, become a leader in a state or local public health laboratory.”
SUMMARY OF EID FELLOWS
(1995 – 2011)
Since its inception in 1995, 460 scientists have participated in the EID Laboratory Fellowship Program, assigned to local, state, and CDC laboratories nationwide.
Following is a profile of the fellows, including their background, assignments, highlights of activities and accomplishments.

SUMMARY STATISTICS
Fellow Laboratory Assignments
Of the 460 scientists who have participated in the EID Laboratory Fellowship Program:

- 252 (55%) were assigned to CDC laboratories (Atlanta, Georgia; Fort Collins, Colorado; Anchorage, Alaska; San Juan, Puerto Rico)
- 208 (45%) were assigned to local or state public health laboratories

FELLOWS ACTIVITIES
Fellows have participated in the following:

- 859 publications in journals including: Emerging Infectious Diseases; American Journal of Tropical Medicine and Hygiene; Clinical Infectious Diseases; Applied and Environmental Microbiology; Journal of Molecular Diagnostics; Journal of Bacteriology; Journal of Vector Ecology; Trends in Parasitology; Journal of Clinical Microbiology; Journal of Food Protection; Infection, Genetics and Evolution; Journal of Eukaryotic Microbiology; Journal of American Veterinary Medical Association; and Pediatric Infectious Disease Journal
- 188 outbreak investigations
- Domestic and international meetings including: American Society of Microbiology (ASM), American Society of Tropical Medicine and Hygiene (ASTMH), American Society of Virology (ASV), International Conference on Emerging Infectious Diseases (ICEID), International Association of Food Protection (IAFP), International Conference on Travel Medicine and Infectious Diseases, International Meeting of Rabies in the Americas (RITA), Ecology and Evolution of Infectious Diseases (EEID), International Society of Infectious Diseases (ISID), International Conference on Human Retrovirology, American Water Works Association (AWWA), International Conference on Antimicrobial Agents and Chemotherapy (ICAAC), Infectious Diseases Society of America (IDSA), International Conference of Diseases in Nature Communicable to Man (INCDNCM), and the International Symposium on Avian Influenza
- Short-term international assignments in the countries of American Samoa, Bangladesh, Botswana, China, Egypt, Ghana, Guatemala, Guinea, Haiti, Honduras, India, Liberia, Kenya, Kyrgyzstan, Madagascar, Mexico, Mozambique, Peru, Singapore, Spain, Suriname, Tanzania, Uganda, Uzbekistan, and Vietnam
- Environmental Protection Agency (EPA) training courses
- National Laboratory Training Network (NLTN) Public Health Series Courses
Of the 460 fellows, 360 (78%) were predoctoral fellows and 100 (22%) were postdoctoral fellows.

**Predoctoral Fellows**
- Education: 245 (68%) had bachelor’s degrees
  - 115 (32%) had master’s degrees
- Assignment: 94 (54%) were assigned to CDC laboratories
  - 166 (46%) were assigned to local or state laboratories

**Postdoctoral Fellows**
- Education: 91 (91%) had PhD degrees
  - 3 (3%) had MD degrees
  - 5 (5%) had DVM degrees
  - 1 (1%) had both DVM and PhD degrees
- Assignment: 58 (58%) were assigned to CDC laboratories
  - 42 (42%) were assigned to local or state laboratories

**STATUS OF FELLOWSHIP PROGRAM PARTICIPANTS**
Of the 436 fellows who had completed the program at the time of this publication:

- 11% accepted temporary or permanent positions at a local or state public health laboratory or department
- 14% accepted temporary or permanent positions at a CDC laboratory
- 30% pursued higher education (not MD degrees)
- 10% pursued MD degrees or other clinical laboratory/clinical healthcare positions
- 4% accepted positions in academia
- 4% accepted positions in private laboratories
- 3% accepted other federal employment positions
- 3% pursued another postdoc or fellowship
- 2% accepted positions in university laboratories
- 2% accepted positions in public health organizations, including non-profits and health-related private industry
- 17% other/unknown

**EDUCATION LEVEL**
Of the 460 fellows, 360 (78%) were predoctoral fellows and 100 (22%) were postdoctoral fellows.
“The program met and went beyond my greatest expectations for my training and research objectives. I received training in so many areas and fully developed my molecular techniques to a level which better qualified me for employment.”

– Class 8 Training Fellow Kelly Felkey, Virginia Division of Consolidated Laboratory Services.

“The EID program exceeded my expectations and objectives... I came into the fellowship with a desire to combine my training in both basic science and public health by performing applied microbiological research that is relevant to public health.”

– Class 15 Research Fellow Maureen Diaz, CDC Division of Bacterial Diseases

“I learned a great deal about fieldwork, including the process of planning and developing a field study, the logistics involved in preparation, the necessary tools to execute the study, and finally, bringing the data together for analysis.”

– Class 10 Training Fellow Caroline Grady, CDC Division of Parasitic Diseases

“Upon entering the fellowship, I hoped to gain some experience in the BSL-3 laboratory. Little did I know, I would be an active participant in a national response to bioterrorism.”

– Class 7 Training Fellow Patricia Blevins, New York State Department of Health. Blevins is currently LRN Laboratory Supervisor, San Antonio Metropolitan Health District and former Infectious Disease Program Manager, APHL

“We love to see people excited about the lab. We feel we are training scientists for the public health field.”

– Program Mentor Denise Pettit, Virginia Division of Consolidated Laboratory Services

Focus on Fellows 2011

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