Programs in Medical Laboratory Immunology:

Rosalind Franklin University of Medicine and Science

Chicago Area Clinical Immunology Training Program
North Chicago, IL
Program Director: Kenneth Beaman, kenneth.beaman@rosalindfranklin.edu, clinlab@rosalindfranklin.edu

The training provides the fellow a unique opportunity to learn the skills, knowledge and experience necessary to become a successful medical laboratory immunologist from three different perspectives. The training program involves a series of rotations through the various laboratory sections at the Clinical Immunology Laboratory of the Rosalind Franklin University of Medicine and Science, Department of Pathology, Evanston Hospital and Children's Memorial Hospital, Department of Medicine, Clinical Immunology Laboratory. In addition to the rotations through the particular laboratories, courses in Laboratory Administration and Clinical Medicine will be included.

University of North Carolina Hospitals, Immunology

Clinical Microbiology/Immunology Laboratory
UNC Hospitals, Chapel Hill, NC
Program Director: John Schmitz, jschmitz@unch.unc.edu

The University of North Carolina Hospital's program offers training in all areas of Clinical Immunology. Fellows receive training in all sections of the Clinical Immunology (Infectious Disease, Autoimmune Disease, and Allergy Testing), Transplant Services (Histocompatibility, Flow Cytometry, and Stem Cell Processing), and Molecular Diagnostics (Microbiology, Molecular Pathology) laboratories. Frequent interaction with physicians during rounds, clinical conferences, and consultations contributes extensively to the in depth of training provided. Fellows also receive laboratory management training and have the opportunity to participate in clinical and translational research with infectious disease, transplant and pathology faculty. The program is not accepting applications at this time. For more information, click here.

University of Utah Medical Center, Immunology

Department of Pathology
Salt Lake City, UT
Program Director: Anne Tebo
Direct inquiries to Mishka Foster at mishka.foster@aruplab.com

The University of Utah program offers a comprehensive, academically-oriented fellowship training program in clinical (medical laboratory) immunology accredited by the American Society for Microbiology sub-Committee on Postgraduate Educational Programs (CPEP). This program also lays emphasis in the major areas of clinical and diagnostic immunology services, such as test utilization and interpretation, laboratory administration, teaching and research. The clinical facilities of the Laboratory
of Immunology at ARUP Laboratories include Protein, Allergy, Autoimmune Disease Serology, Microbial Serology, Cellular and Innate, Flow Cytometry, and Hepatitis and Retrovirus Serology sections. The training in Public Health Serology at the Utah Department of Public Health (UDPH) combined with a fellow rotation through clinical laboratories at ARUP Laboratories and the Histocompatibility and Immunogenetic Laboratory at the University of Utah will provide considerable expertise to our fellows. Fellows also have the opportunity to participate in state-of-the-art clinical and translational research with infectious disease, rheumatology, transplant and pathology faculty onsite. For more information, including application requirements, please visit our site. The program is accepting applications through November 15th for the fellowship year starting 2019-2020.

Programs in Medical and Public Health Laboratory Microbiology:

**Baylor College of Medicine and Texas Children's Hospital**

Department of Pathology  
Houston, TX  
Program Director: Jim Dunn, james.dunn@bcm.edu  
Assistant Director: Paula Revell

The Department of Pathology at Texas Children's Hospital, academically affiliated with the Baylor College of Medicine, offers a comprehensive 2-year post-doctoral training program to provide fellows with extensive working knowledge in the areas of bacteriology, virology, mycology, mycobacteriology, parasitology, infectious disease serology and molecular microbiology that will enable them to interpret microbiologic data and other relevant information to effectively communicate and collaborate in the diagnosis, management, and treatment of patients with infectious diseases and provide solutions to infection control and epidemiologic investigations. Fellows will also actively participate in the design and conduct of microbiological research relevant to medical and public health issues in infectious diseases. Trainees will have the opportunity to rotate through several laboratories in the Texas Medical Center including those at Texas Children’s Hospital, Ben Taub General Hospital, Houston Methodist Hospital, and the Houston Department of Health and Human Services. Qualified applicants must have a Ph.D., M.D. or other doctoral degree (e.g. Dr.P.H., D.Sc., D.O., D.V.M.) with training in microbiology, molecular biology, or a related discipline. The program reviews applications from July 1 through August 31, for positions that will begin the following year.

**Beth Israel Deaconess Medical Center**

Department of Pathology  
Boston, MA  
Program Director: James Kirby, jekirby@bidmc.harvard.edu
The goal of the program is to train fellows to assume leadership roles in academic, tertiary care, and public health microbiology laboratories. Philosophically we believe that this education is best accomplished through hands-on instruction in microbiological methods, direct participation in the consultative and administrative activities of the microbiology laboratory, and participation in activities of the infectious diseases, pharmacy, and infection control/hospital epidemiology departments. Fellows will also rotate at Children's Hospital Boston and the Massachusetts State Laboratory to gain a comprehensive education experience that includes adult, pediatric, and public health microbiology. Only U.S. citizens, U.S. permanent residents, or Canadian citizens are eligible to apply. The program reviews applications each year beginning in July for positions that will begin in July of the following year.

Children’s Hospital Los Angeles

Department of Pathology and Laboratory Medicine
Los Angeles, CA
Program Director: Jennifer Dien Bard, jdienbard@chla.usc.edu

The Department of Pathology and Laboratory Medicine at Children’s Hospital Los Angeles (CHLA), affiliated with University of Southern California (USC), offers a two-year Medical Microbiology and Public Health Fellowship. The program offers training in all areas of microbiology to ensure the acquisition of skills and knowledge required to successfully direct a clinical or public health microbiology laboratory. The fellowship offers comprehensive training in all fundamental laboratory aspects of diagnostic microbiology, clinical consultation related to laboratory and infectious diseases, infection control and prevention, and laboratory management/administration. Didactic lectures, attendance of infectious disease rounds, and conferences will further develop the fellow’s skill set. Research opportunities specific to clinical and translational studies in all specialty areas are available. Collaborative laboratory and Infectious Disease training will be held at CHLA and Los Angeles County + USC Medical Center, to ensure extensive exposure to diverse pediatric and adult patient population. In addition, fellows will also receive laboratory training at the Los Angeles County Department of Public Health. CHLA offers one to two positions each year starting in July. Applicants must have a doctoral degree in microbiology or related discipline, ideally within five years of enrollment in the program. The State of California requires that all foreign-educated, doctoral-level scientists (M.D.s and/or Ph.D.s) must have all transcripts authenticated. World Education Services Inc (WES) is recommended. The program reviews applications each year from July 1 through August 1, for a position that will begin July 1, the following year. For more information, click here.

Indiana University School of Medicine

Department of Pathology and Laboratory Medicine
Division of Clinical Microbiology
Indianapolis, IN
Program Director: Gerald Denys, gdenys@iupui.edu

The Medical and Public Health Laboratory Microbiology Fellowship program offers doctoral-level fellows comprehensive training in clinical, molecular, and public health microbiology. Through a combination of
didactic lectures, hands-on bench rotations, formal journal clubs, clinical consultations, and daily interactions with healthcare professionals, fellows will acquire knowledge and skills that are essential for directing clinical and public health microbiology laboratories. Training is primarily based at the Indiana University Health Pathology Laboratory (IUHPL), a modern, state-of-the-art, and centralized testing facility that serves numerous IU Health healthcare providers. Fellows will also rotate through the microbiology and serology laboratories of the Richard L. Roudebush VA medical center, the Eskenazi Health hospital, and the Indiana State Department of Health, which are all located in very close proximity to the IUHPL in downtown Indianapolis. During both years of training, fellows will have on-call responsibilities and will participate in microscopic examination and interpretation of stat infectious disease pathology consultations alongside faculty microbiologists and pathology fellows. Fellows will also have numerous research opportunities and many projects to choose from, including clinical trials of in vitro diagnostic products and laboratory test development. To better appreciate the role of clinical and public health microbiology laboratories in the care of patients, fellows will rotate through several clinical service areas, giving them direct interaction with infectious disease physicians, infection control practitioners, pharmacists, and other healthcare professionals at affiliated hospitals in Indianapolis. The program reviews applications each year from July to November for positions that will begin in July of the following year.

**Mayo Clinic**

Department of Clinical Microbiology
Rochester, MN
Program Director: Matthew Binnicker, binnicker.matthew@mayo.edu
Direct inquiries to Tasha Gilbertson at gilbertson.tasha@mayo.edu

The Mayo Clinic postdoctoral program in Clinical Microbiology offers training in all areas of conventional and molecular microbiology. Trainees will have the opportunity to work directly with seven board-certified laboratory directors (four MDs and three PhDs) in Bacteriology, Virology, Parasitology, Mycology, Mycobacteriology, Hepatitis/HIV, and Infectious Diseases Serology. Over 2.7 million tests are performed annually and the trainee will gain experience in the detection, identification, and drug susceptibility testing of routine and esoteric pathogens. Extensive molecular testing methods are incorporated into all laboratory areas. The trainee will also participate in laboratory management through didactic coursework and hands-on experience directing a laboratory section. Trainees have educational rotations in Infectious Diseases (including Pediatric and Transplant Infectious Diseases), Infection Prevention and Control, and Epidemiology/Public Health at the State Department of Health in St. Paul, Minnesota. Ample opportunities for research and new test development exist in all specialty areas. For more information and to apply online, please visit the program website. The program reviews applications from July 1, 2018 through December 31, 2018 for a position that begins July 1, 2020.

**Memorial Sloan Kettering Cancer Center**

Department of Laboratory Medicine
Clinical Microbiology Service
New York, NY
Program Director: Esther Babady, BabadyN@mskcc.org
Deputy Director: Yi-Wei Tang

The Clinical Microbiology Service of the Department of Laboratory Medicine at Memorial Sloan Kettering Cancer Center (MSKCC) offers a 2-year Clinical Microbiology Fellowship. This fellowship offers training for doctoral-level scientists interested in acquiring knowledge and skills necessary to direct a clinical microbiology laboratory. The fellowship will provide both general training in clinical microbiology as well as specialized training for diagnostic microbiology in immunocompromised patients. The fellow will obtain training in all sub-specialties of Clinical Microbiology and develop knowledge of both conventional and molecular diagnostic methods for identification and antimicrobial susceptibility testing of bacteria, mycobacteria, fungi, and rapid detection of viruses and parasites. Additionally, the fellow will develop skills in laboratory management, clinical consultation related to microbiology and infectious diseases and interpretation and clinical correlation of laboratory data. A strong emphasis is also placed on laboratory research, diagnostic assays development and outcome studies in immunocompromised patients. The fellow’s training will occur on the Main campus of MSKCC, on the Upper East Side of Manhattan. Memorial Sloan-Kettering Cancer Center encompasses Memorial Hospital, a 434 bed tertiary care teaching hospital founded in 1884; Sloan-Kettering Institute for research dedicated in 1948; and multiple outpatient practices in Manhattan and at regional sites on Long Island, Westchester and New Jersey. In order to enhance the fellows’ training and provide fellows with comprehensive training and a greater mix of clinical microbiology cases, the fellow will also rotate in the Clinical Microbiology Laboratories of the New York University Langone Health/Bellevue Hospital Center. The fellow’s Public Health rotation will take place at the New York City Department of Health (DOH) Public Health Laboratory (PHL). The NYC PHL, established in 1892, is one of the oldest PHL in the world with a rich history and experience of dealing with issues of public health importance. The NYC DOH PHL is located in lower Manhattan within a few blocks from the Microbiology laboratory at MSKCC. The program is not accepting applications at this time.

National Institutes of Health

Microbiology Service, Department of Laboratory Medicine
Bethesda, MD
Program Director: Adrian M. Zelazny, azelazny@mail.nih.gov

The program is designed to develop knowledge and skill in diagnostic microbiology, clinical consultation related to microbiology and infectious diseases, laboratory informatics, and clinical laboratory management. A strong emphasis is also placed on laboratory research, particularly on the development of molecular and proteomic-based diagnostic tests and on collaborative projects performed in conjunction with clinical protocols ongoing at the NIH. The fellowship will be enhanced through collaborative training provided by Children's National Medical Center, Washington Hospital Center, Johns Hopkins Hospital, and the Maryland State Health Laboratory. Ideal candidates have less than 2 years beyond completion of postdoctoral and/or fellowship training and show evidence of research
acumen through publications in peer-reviewed journals. Non-U.S. citizens are eligible to apply. Visa assistance is available through the NIH’s Division of International Services.

**University of California, Los Angeles, Clinical Microbiology**

Department of Pathology & Laboratory Medicine  
Los Angeles, CA  
Program Director: Omai Garner, ogarner@mednet.ucla.edu

The UCLA and West Los Angeles VA Medical Center program offers comprehensive academically oriented training in clinical, public health, and molecular microbiology. Fellows receive training at UCLA and LA County Public Health clinical laboratories, both state-of-the-art facilities with an emphasis on molecular diagnostic test development and a commitment to clinical and translational research. Fellows actively participate in all functions of the laboratory, receive training in laboratory management, and develop clinical problem solving and consultative skills through participation in infectious disease rounds and call responsibilities. The program, supported by the clinical and academic resources of the participating institutions, also has strong public health, infection prevention, and antimicrobial stewardship training components, and is enriched by the diversity of the Southern California population. UCLA offers one or two positions each year starting in July. Applicants must have completed their doctoral degrees within the past 10 years and have no more than five years of cumulative postdoctoral research experience (NOT including medical residencies or clinical appointments). Complete Graduate Division requirements for a Postdoctoral Scholar appointment are posted at here. Applications are reviewed between July 1st and August 1st for positions beginning in July of the following year.

**University of Nebraska Medical Center**

Department of Pathology and Microbiology  
Omaha, NE  
Director: Steven H. Hinrichs  
Deputy Director: Peter C. Iwen  
Direct inquiries to Dr. Iwen, piwen@unmc.edu

The Department of Pathology and Microbiology at the University of Nebraska Medical Center sponsors the CPEP-training fellowship. This fellowship provides a hands-on experience in the basic disciplines of clinical microbiology through bench rotations, didactic lectures, and contact with pathology fellows, faculty, and fellows. Administrative experience through participation in management and committee interaction is also a part of the training. The fellowship will be enhanced through collaborative training provided by our sponsoring affiliates, the Creighton University Medical Center, the Nebraska Medical Center (affiliated hospital system), and the Nebraska Public Health Laboratory. Applicants to the training program must have a doctoral degree (Ph.D., M.D., Sc.D., D.O. Dr. PH, etc.) with graduate education in clinical microbiology or related discipline. Ideal candidates will have previous experience working within a diagnostic laboratory setting and a strong desire to pursue future activities as it pertains to public health and clinical microbiology. Non-U.S. applicants from countries where English is not the primary language will only be considered if they have: 1) completed the Test of English as a Foreign Language
(TOEFL) exam (see program website for acceptable scores), 2) graduated with a doctoral degree from an accredited US institution, and 3) completed at least one year of postdoctoral training within the United States. Additionally, foreign M.D. applicants will only be considered if they are certified by the Educational Commission for Foreign Medical Graduates (ECFMG) and licensed to practice medicine in the United States. One individual is accepted into the program each year which is dependent on the availability of funding. More information can be found on the program website. Applications will be reviewed from July 2018 to November 2018 for positions beginning in July 2019.

University of North Carolina Hospitals, Microbiology

Clinical Microbiology Laboratories
Chapel Hill, NC
Program Director: Melissa Miller, Melissa.Miller@unchealth.unc.edu

The University of North Carolina Hospitals' program offers intensive training in all aspects of clinical microbiology with emphasis on developing clinical problem solving and consultative skills through daily laboratory contact with ID physicians. The laboratory has a commitment to molecular testing with fellows participating in test development for our constantly expanding test menu. Opportunities exist for the fellow to develop expertise in international laboratory capacity building at the UNC Project Laboratory in Lilongwe, Malawi. Fellows are expected to develop strong clinical and translational research skills by performing collaborative clinical research with faculty from UNC’s internationally recognized programs in Infectious Diseases and Cystic Fibrosis. Applications from US citizens and permanent residents (green card holders) are given preference. Foreign applicants may be considered if they have support from their national government or a non-governmental organization. For more information, please visit the program website. The program is not accepting applications at this time.

University of Pennsylvania and Children's Hospital of Philadelphia

Clinical Microbiology Laboratory
Department of Pathology and Laboratory Medicine
Philadelphia, PA
Program Co-Director: Irving Nachamkin (Hospital of the University of Pennsylvania)
Program Co-Director: Ana Cardenas (Children's Hospital of Philadelphia)
Direct inquiries to Dr. Nachamkin, irving.nachamkin@uphs.upenn.edu

The University of Pennsylvania and Children's Hospital of Philadelphia program now offers comprehensive, academically oriented training in clinical microbiology through a joint program with the Hospital of the University of Pennsylvania (HUP) and Children’s Hospital of Philadelphia (CHOP) and affiliated institutions. Particular strengths include training in adult and pediatric microbiology, the strong clinical orientation of the training program and consultations and interaction with the Infectious Diseases Divisions. A variety of research opportunities are available including diagnostic and molecular microbiology, antimicrobial resistance, and microbial pathogenesis. Complete applications, which include letters of reference and personal statement are reviewed on an ongoing basis. Only U.S. citizens,
U.S. permanent residents, or Canadian citizens are eligible to apply. The next applications will be reviewed from July 1, 2018 through September 30, 2018 for a position that begins in July 2019.

University of Rochester School of Medicine & Dentistry

Clinical Microbiology Laboratories
Rochester, NY
Program Co-Director: Dwight J. Hardy
Program Co-Director: Nicole Pecora
Direct inquiries to Mary Ellen Gardiner at Maryellen_gardiner@urmc.rochester.edu

The University of Rochester program is a tertiary care hospital based clinical program with a fully integrated public health microbiology component. Combination of these two areas provides an unusually large and diverse mix of cases and laboratory specimens for study. Two full-time faculties with different expertise and interests permit in-depth exposure to various areas of microbiology in terms of both research and clinical problem solving.

University of Texas Medical Branch

Department of Pathology, Division of Clinical Microbiology
Galveston, TX
Program Director: Natalie Williams-Bouyer, nmwillia@utmb.edu

The Medical and Public Health Laboratory Microbiology Fellowship program at the University of Texas Medical Branch (UTMB) in Galveston offers a comprehensive training experience in both conventional and molecular-based microbiology. For an overview of the Division of Clinical Microbiology, visit our website. UTMB has a long tradition of excellence in emerging infectious diseases, tropical medicine, and global health. Trainees will rotate through the Clinical Microbiology, Molecular Diagnostics, and Cytopathology Laboratories at UTMB, and the Texas Department of State Health Services Public Health Laboratory in Austin. An optional rotation at the City of Houston Public Health Laboratory is also available. Trainees will participate in consultative and administrative activities, and rotations in Infectious Diseases and Infection Control. Ample opportunities exist for both applied clinical and translational research. Ideal candidates will have demonstrated experience in the clinical laboratory setting, and display a commitment to a career in clinical or public health microbiology. The program is not accepting applications at this time.

University of Utah School of Medicine, Microbiology

Department of Pathology
Salt Lake City, UT
Program Director: Marc Couturier, marc.couturier@aruplab.com
Direct inquiries to Karen Nelson at karen.nelson@aruplab.com

The University of Utah program, part of the Department of Pathology and ARUP Laboratories, allows trainees to gain hands-on experience in bacteriology, mycobacteriology, mycology, parasitology,
virology, molecular microbiology, and serology through a series of structured bench rotations and independent research. The trainee also acquires administrative experience through participation in laboratory management and hospital committee meetings, and special effort is directed toward clinical infectious diseases case management and infection control. Fellows are selected for their potential as future directors of academic diagnostic microbiology laboratories and leaders in public health. Fellows completing the program are expected to apply for subspecialty certification in Medical Microbiology by examination of the American Board of Medical Microbiology. The J-1 visa is the required visa for international trainees. This policy is governed by the University of Utah Office of Graduate Medical Education and applies to all Department of Pathology fellowships, regardless of program accreditation or associated degree type. Positions are generally filled 14-18 months prior to the annual July start date. More information can be found at the program website. The program reviews applications from January 1, 2018 through December 31, 2018 for a position that begins in July 2020.

University of Washington Medical Center

Department of Laboratory Medicine
Seattle, WA
Program Director: Brad Cookson, MD, PhD
Associate Director: Lori Bourassa, PhD
Associate Director: Xuan Qin, PhD
Direct inquiries to Maureen Ni, maureenn@uw.edu

This program offers training in all aspects of clinical microbiology. Training is based at the UW Medical Center, a tertiary care facility, and two affiliated hospitals: Harborview Medical Center (the regional trauma center), and the Children’s Hospital and Regional Medical Center (a pediatric tertiary care facility). Fellows acquire experience in public health microbiology at the Washington State Public Health Lab and participate in hands-on training in pediatric and adult infectious disease and in hospital infection control. Laboratory management is learned in weekly meetings with the laboratory leadership team, including faculty directors and managers, as well as “on the job” during the second year acting directorship. A wide variety of research opportunities are available in diverse aspects of clinical microbiology, with the fellow’s schedule designed to accommodate his or her background and interests. If the applicant’s doctoral degree was obtained from an institution outside of the United States or Canada, applicants must fulfill each of the following requirements in order to be considered: 1. Obtained their undergraduate or doctoral degrees in an English-speaking country, or have completed the Test of English as a Foreign Language (TOEFL) exam, and 2. Completed at least one year of postdoctoral training within the United States or Canada. The program reviews applications from July through October for a position that will begin in July of the following year.

Vanderbilt University Medical Center

Department of Pathology, Microbiology, and Immunology
Nashville, TN
The Fellowship Training Program in Medical and Public Health Laboratory Microbiology at Vanderbilt University Medical Center provides broad post-doctoral education in the clinical laboratory diagnosis, management, and prevention of infectious diseases. The two-year program is administered through the Department of Pathology, Microbiology, and Immunology and Office of Graduate Medical Education. The curriculum is designed to offer integrated experience in the scientific and technical bases of microorganism identification, laboratory consultation, clinical infectious diseases, infection control and prevention, epidemiology, public health microbiology, immunology, laboratory management, and teaching through modular and continuous formats. Clinical microbiology expertise is further developed through didactic instruction, participation in clinical and research conferences, direct mentoring by program faculty, and progressive increases in responsibility. Fellows conduct approximately six months of research to establish scholarship in the field. Graduates will have acquired the knowledge, skills, and abilities necessary to competently practice clinical microbiology. Candidates who are not U.S. citizens or permanent fellows must be eligible for a J-1, H1B, or TN visa to be considered for this program. Permanent fellows (green card holders) are eligible. For more information, visit the program website. The program reviews applications from October 1, 2018 through December 1, 2018 for a position that begins in July 2020.

Washington University in St. Louis, Barnes-Jewish Hospital, and St. Louis Children's Hospital

Washington University School of Medicine
Department of Pathology & Immunology
St. Louis, MO
Program Director: Carey-Ann Burnham, cburnham@path.wustl.edu

The program and major clinical rotations are based at the Barnes-Jewish Hospital and St. Louis Children’s Hospital. Fellows master taxonomic and diagnostic expertise in all areas of clinical diagnostic microbiology through interactive rotations provided at the adult and pediatric facilities. Fellows also receive substantial exposure to molecular diagnostics, genomics, clinical infectious diseases, epidemiology, pharmacotherapy, and laboratory management. The public health segment of the program has been developed in conjunction with the Wisconsin Department of Health and includes training at the Wisconsin state laboratory. Fellows are provided with a wealth of interdepartmental lectures, seminars, and symposia during the course of the program and given the unique option to gain additional exposure to other disciplines of clinical laboratory medicine. Ample opportunity will be provided for the development of research projects. Candidates who are not U.S. citizens or permanent fellows must be eligible for a J-1, H1B, or TN visa to be considered for this program. Permanent fellows (green card holders) are eligible. For more information, visit the program website. The program will be reviewing applications from July 1, 2018 to August 31, 2018 for a fellowship position that will start July 1, 2019.