PEDiatric Infectious Diseases
Fellowship Training Program

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A Message from the Chair
Department of Infectious Diseases
St. Jude Children’s Research Hospital
Elaine Tuomanen, MD

The Pediatric Infectious Diseases Program is a global leader of research and treatment combining training in infections at St. Jude Children’s Research Hospital and Le Bonheur Children’s Hospital. The St. Jude program emphasizes gaining state of the art expertise in the infectious complications of transplantation and cancer therapy, a skill increasingly needed in academic settings. The program is strongly research focused with the aim of producing highly trained physician scientists and clinical researchers.

It gives me great pleasure to tell you more about the opportunities fellows have available at St. Jude, where cutting edge care is delivered to children under clinical research protocols.

St. Jude treats catastrophic diseases of children including complex cases of pediatric cancer, non-malignant hematology and HIV. Scientists and clinicians work in tandem, moving advances from the lab directly into the clinic, and taking observations from the clinic back to the lab. World-class programs in infectious diseases began in the early days of the AIDS epidemic when Dr. Walter Hughes discovered the treatment and prophylaxis of pneumocystis pneumonia by Bactrim/Septra. The current HIV effort is a national leader in developing treatment protocols for the adolescent with HIV. Newer programs in infectious diseases expanded to bacterial and viral respiratory infections and the capacity to develop and test vaccines and small molecule antibiotics. The Influenza Center of Excellence, collaborating with the WHO, CDC and NIAID, is the leading center designing vaccines for pandemic influenza preparedness. An extensive International Outreach Program offers opportunities to bring advances in pediatric infectious diseases to 24 sites around the globe.

By pursuing fundamental laboratory-based research and applying discoveries to the clinic through sophisticated translational research efforts, St. Jude laboratories provide a rich environment for performing cutting-edge basic and translational research. Our clinical and postdoctoral fellows form the backbone of our research efforts and lend their expertise to projects in a variety of disciplines. The interconnected nature of our research programs provides clinical and postdoctoral fellows an environment in which they can develop their scientific expertise while seeing firsthand the implications of their work on the care of pediatric patients.

In addition to providing an unparalleled environment for laboratory-based scientific training, we also offer clinical and postdoctoral fellows a wealth of other opportunities to help balance their training for a career in either the academic or private sector. An active St. Jude Postdoctoral Association provides a professional community in which fellows can gain experience in teaching and mentoring young scientists and volunteer to participate in non-laboratory–based activities both within St. Jude and outside of the institution. Our fellows are integral to defining St. Jude’s path to innovation and discovery, and I hope that you will consider joining us on our journey to progress.

Sincerely,

Elaine Tuomanen, MD
ALSAC Endowed Chair
Department of Infectious Diseases
Director, Children’s Infection Defense Center
St. Jude Children’s Research Hospital
A Message from the Chair
Department of Pediatrics

The University of Tennessee Health Science Center

Jon McCullers, MD

Le Bonheur Children’s Hospital, St. Jude Children’s Research Hospital and the University of Tennessee Health Science Center have one of the country’s most unique partnerships. Together, the three institutions work to discover, teach and care for children from around the world.

Le Bonheur Children’s state-of-the-art facility, community programs and regional clinics are among the country’s “Best Children’s Hospitals” by U.S. News & World Report. The hospital has 255 beds and features a 20-bed Pediatric Intensive Care Unit, a 10-bed Cardiovascular Intensive Care Unit and a 6-bed Neuro Intensive Care Unit.

Sitting at the heart of Arkansas, Mississippi and Tennessee, Le Bonheur attracts children from a wide referral area including five states. Le Bonheur is the region’s only Level 1 Pediatric Trauma Center as verified by the American College of Surgeons, and the Emergency Department has more than 90,000 visits each year.

The Infectious Disease Division has nationally recognized faculty and is the only comprehensive pediatric infectious disease team in the area. The team conducts research in respiratory infections, osteomyelitis, and molecular diagnostics, and performs many clinical trials.

We have many well-developed programs in infection control and prevention, antimicrobial stewardship and educational scholarship.

Le Bonheur, St. Jude and UTHSC have a vision for our partnership and the impact we can make in pediatrics nationally and in the lives of the children and families we help. We want outstanding candidates who see our vision and want to be part of the excellence we are building right here in Memphis.

We look forward to meeting you.

Sincerely,

Jon McCullers, MD
Pediatrician-in-Chief and Infectious Disease Specialist, Le Bonheur Children’s Hospital
Chair, Department of Pediatrics, The University of Tennessee Health Science Center
PROGRAM MISSION

The mission of the Fellowship Program is to prepare outstanding clinicians for a successful career in academic medicine, with an emphasis on training to make scholarly contributions to the field as an independent investigator.

PROGRAM GOALS

Upon successful completion of the three-year training program, fellows have a comprehensive understanding of the pathophysiology of pediatric infectious diseases, are able to diagnose and manage these disorders, understand clinical trials methodology and are skilled scientific investigators. Fellows completing the program meet the requirements for subspecialty board certification in pediatric infectious diseases and are well prepared for a career in academic medicine.
The Pediatric Infectious Diseases Fellowship Training Program is ACGME-accredited and affiliated with the Pediatric Residency Program at The University of Tennessee Health Science Center. The training program is jointly administered by the Department of Infectious Diseases at St. Jude Children's Research Hospital and the Division of Pediatric Infectious Diseases at Le Bonheur Children's Hospital. It is one of the largest training programs in North America and offers exceptional opportunities for training in both clinical medicine and biomedical research.

Our fellowship training program is sufficiently flexible to allow trainees to gain expertise in pediatric infectious diseases clinical practice and an area of basic, clinical, or translational science research. The goal of the infectious diseases fellowship training program is to train future leaders in pediatric infectious diseases; physicians who are capable of making important clinical or basic science observations and transforming them into ideas that can be applied to the pathogenesis of infectious diseases or therapeutic interventions.

Opportunities are available for participation in graduate school classes at St. Jude, The University of Tennessee Health Science Center, and University of Memphis. Degree programs include Master's Degrees in Epidemiology and Public Health as well as doctoral degrees in Biomedical Science (with tuition assistance available). Regular postdoctoral fellow retreats and personal and professional development programs are provided for all fellows.
CLINICAL TRAINING

Fellows participate in a minimum of 12 months of clinical training during the 3-year period. This clinical schedule is flexible. Typically, fellows spend three months each on the consulting services at Le Bonheur and St. Jude, and one month in HIV medicine at St. Jude in their first year, spending an additional two months at each hospital over the subsequent two years. In the third year, an additional two weeks is spent on the HIV service to bring fellows up to date on recent therapeutics and clinical trials. In their second year, fellows spend a month on the Hematopoietic Stem Cell Transplant service. Fellows take calls by pager at night and have one day off per week (averaged monthly) during their clinical rotations.

Fellows supervise medical students, pediatric and medicine/pediatric residents, and pharmacy residents serving on the infectious disease team. A combined clinical conference with presentations of patients from St. Jude and Le Bonheur is scheduled weekly. Electives in Global Health, Infection Prevention, Antimicrobial Stewardship, and Adult Infectious Diseases are offered.
RESEARCH TRAINING

Fellows spend at least two thirds of their time, primarily during their second and third years, in a protected research environment during which they have no clinical responsibilities and no call. Fellows identify an appropriate mentor during the first months of their fellowship, although they are encouraged to explore opportunities prior to starting the fellowship. Research mentors and projects can be chosen from any of the three sponsoring institutions and any department where research related to infectious diseases is being carried out. Exceptional opportunities exist for training in clinical, translational, and basic science research. The new St. Jude Graduate School provides a unique opportunity for clinical fellows to obtain combined clinical training and a PhD. Fellows interested in epidemiology, clinical trials, or public health have the option of participating in the UTHSC Master of Science in Epidemiology program or the University of Memphis Master of Public Health Program.

Research training begins in the first year and continues through the second and third years of the fellowship. Each fellow has a scholarship committee that provides ongoing advice throughout training. By completion of training, fellows are subspecialty board eligible and have either published first authored manuscripts in peer-reviewed journals, participated as an investigator in clinical trials, or obtained an advanced degree. Support to develop grant-writing skills is available and extended support to continue training beyond the third year is available for highly qualified participants.

LIBRARY FACILITIES

Library systems are available at Le Bonheur Children’s Hospital, St. Jude Children’s Research Hospital, and The University of Tennessee Health Science Center. Library facilities are available 24 hours a day, 7 days a week, while library staff is available during weekdays to assist with searches and provide specialized training and orientation for library resources. The library systems provide access to an abundance of databases, journals, eBooks, and interlibrary loans, as well as mobile library services. All fellows are provided with laptop computers to facilitate patient care and have 24 hour access to library facilities.
Clinical rotations at Le Bonheur and at St. Jude afford the fellow the opportunity to manage a tremendous variety of pediatric infectious diseases.

Clinical service at SJCRH

The mission of St. Jude Children’s Research Hospital is to advance cures for pediatric catastrophic diseases through research and treatment. At St. Jude, we’re changing the way the world treats and defeats pediatric infectious diseases and infections. The Infectious Disease Program started when St. Jude opened its doors to patients in 1962. We specialize in managing infection in:

- Children and young adults with human immunodeficiency virus (HIV) infection
- Severely immunocompromised children, including those undergoing hematopoietic stem cell/bone marrow transplants

St. Jude is a 60-bed freestanding hospital accredited by the Joint Commission (TJC) and the Commission on Cancer. Consultative services are also provided to St. Jude’s 7 domestic affiliates and 24 partner sites in 17 countries. Approximately 425 new patient consultations and 1,000 follow-up visits for infectious diseases are performed each year. One of the country’s largest pediatric AIDS clinical trial units is located at St. Jude.

Clinical service at LBCH

Le Bonheur Children’s Hospital is one of the nation's best children's hospitals, featuring expert physicians and staff, state-of-the-art technology and family-friendly resources. The new 255-bed TJC-accredited freestanding children’s hospital serves as a tertiary referral center for children in the neighboring six states. Fellows also see neonates at the adjacent Regional Medical Center 70-bed neonatal intensive care unit. Approximately 600 new consultations and 775 follow-up patient visits for infectious diseases are performed annually at this training site. Fellows on the clinical service at Le Bonheur also attend community outpatient pediatric infectious diseases and travel medicine clinics.
St. Jude Children’s Research Hospital is one of the world’s premier research and treatment centers for children with cancer, sickle cell disease, and other life-threatening illnesses, including HIV infection. From our collaborative culture to a unique patient population and world-class facilities, St. Jude offers a rich training experience to help clinicians and physician-scientists launch successful careers. As a clinical trainee at St. Jude, you will enjoy a superb environment in an institution that regularly ranks in FORTUNE magazine’s “100 Best Companies to Work For.” St. Jude has also earned numerous other top workplace awards, including ranking in The Scientist’s Top 10 “Best Places to Work in Academia” for the last seven years the survey was conducted.

FACILITIES
Le Bonheur Children’s Hospital treats more than 250,000 children each year in a 255-bed hospital that features state-of-the-art technology and family-friendly resources. Nationally recognized, Le Bonheur has been named by U.S. News & World Report as a Best Children’s Hospital. Le Bonheur is the primary pediatric teaching facility of the University of Tennessee Health Science Center. The hospital is home to the Children’s Foundation Research Institute (CFRI), a partnership between Le Bonheur, UTHSC, and Children's Foundation of Memphis that is committed to finding new discoveries in pediatric medicine. Le Bonheur offers a full-service international travel clinic for children of all ages providing comprehensive pre- and post-travel care.

University of Tennessee Health Science Center

The Department of Pediatrics at the University of Tennessee Health Science Center (UTHSC) has more than 100 members who are involved in collaborative research activities with the major clinical departments at UT. All major subspecialties are represented. The Children’s Foundation Research Institute was completed in 1994 as part of a $50 million expansion of Le Bonheur Children’s Hospital. This space complements the laboratories already in existence in and around the UTHSC Campus.
**SPECIAL CONFERENCES**

*Our program features both regularly scheduled and ancillary special annual conferences focused on infectious diseases. Among the highlights:*

**St. Jude/PIDS Conference.** Held annually and features presentations from leading investigators in infectious diseases and microbiology. Also includes a series of career development workshops and presentation of original research.

**St. Jude/PIDS Pediatric Transplant ID Symposium.** Offered in combination with the annual St. Jude/PIDS Conference featuring presentations on transplant immunology, HSCT, and solid organ transplant.

**The Edwin Beachey Distinguished Professorship Lecture.** This annual lecture honors the late Dr. Edwin Beachey, who began an effort in streptococcal research that gained international recognition and continues as a premier research program today.

**The Erskine Lecture.** This lecture features one or more high profile visiting leaders in infectious diseases or epidemiology.

**EDUCATIONAL ACTIVITIES**

*The Fellowship Training Program offers a comprehensive series of conferences that expose individuals to a variety of issues germane to pediatric infectious diseases.*

**Combined Clinical Conference.** Features current case presentations from LBCH and SJCRH with a discussion led by the fellow.

**Research Workshop.** Features research work-in-progress presented by faculty and fellows.

**Journal Club.** Held monthly to discuss current literature with emphasis on study design and evidence-based medicine, led by fellows.

**SJCRH Grand Rounds.** Discusses current topics concerning pertinent issues in hematology/oncology, including infectious diseases issues in this patient population.

**Children’s Foundation Research Institute Seminar.** Alternates weekly between talks on current research and discussion of important research publications.

**Pediatric ID Review Lecture Series.** Monthly didactic series based on topics suggested by fellows.

**HO/ID Biostatistics Journal Club.** Held monthly to discuss Biostatistics and related studies/corresponding papers. Led by HO and ID Fellows.

**Le Bonheur Pediatric Grand Rounds.** These CME-accredited rounds, held weekly at LBCH, are organized by the UT Department of Pediatrics and cover a broad range of pediatric topics presented by faculty at UT and visiting lecturers.
LIVING IN MEMPHIS

Memphis offers all the charm and hospitality of a Southern city, but also provides the cultural diversity and entertainment opportunities of a large metropolis. With a metropolitan population of more than 1 million people, Memphis retains much of the allure of a small town, yet features world-class museums, parks, music, dining and entertainment.

The cost of living in Memphis is reasonable. Affordable housing in the form of apartments, lofts and single-family homes can easily be found within a few miles of St. Jude and the UTHSC medical campus.

Memphis is centrally located within the US, and air travel to most major cities is convenient.
Visit these websites for more information about Memphis:

- cityofmemphis.org
- memphistravel.com
- downtownmemphis.com
- memphisrestaurants.com
- shelbyfarmspark.org

Memphis City Government
Memphis Travel Bureau
Downtown Memphis Commission
Memphis Restaurant Association
Shelby Farms Park

- Enjoy professional sporting events including the Memphis Grizzlies NBA team and the Memphis Redbirds AAA baseball team.
- Visit Beale Street, one of the most famous music districts in the world.
- Bike through Shelby Farms, the nation’s largest urban park.
- Catch an impressionist exhibit or picnic on the lawn with the Memphis Symphony at the Dixon Gallery and Gardens.
- Enjoy Broadway shows at the Orpheum Theatre or concerts at the FedEx Forum, Cannon Center for the Performing Arts, the open-air amphitheater on Mud Island, Germantown Performing Arts Center or Levitt Shell.
- Feed the koi or enjoy some tunes at summer concerts in the Memphis Botanic Garden.
- Kayak on the Wolf River.

Whatever your interests, Memphis has something for you!
We understand that you don’t check your life at the door when you come to work. That’s why St. Jude Children’s Research Hospital is pleased to offer you high-quality benefits choices that not only support you at work, but also enrich your personal life. Our benefits are competitive and affordable, and St. Jude will continue to pay a major portion of your health care expenses.

**Competitive Salaries**  
Includes a Sign-On Bonus for Clinical MD Fellows

**PDA Account**  
Clinical fellows receive a professional development account to further education and professional development.

**Personal Laptop**  
Both teaching institutions utilize electronic medical records with remote access.

**Research Allowance**  
$20,000 annually for research supplies and support

**Medical and Prescription Drug, Dental and Vision Plans**  
Medical Insurance, Prescription Drug Plan, Flexible Spending Accounts (FSAs), and optional Dental and Vision plans are available.

**Financial Security Benefits**  
Life Insurance, Long-Term Disability, Aflac, Long Term Care Insurance, and St. Jude Retirement Plans are offered

**Living Well: Employee Wellness Program**  
Initiatives and resources to provide employees with a cohesive guide to wellness

**Family Friendly Benefits**  
Work/Life Balance, Hyatt Group Legal Plan, Employee Assistance Program, Tobacco Cessation Program, Flexible Spending Accounts (FSAs), Disaster Planning, Adoption Assistance, Privacy Plus ID Theft Protection Insurance

**Educational Benefits**  
Employee Tuition Assistance Program, and Specialized Training Programs

**Time Off Programs**  
Time Off Programs: Vacation Time, Sick Time, Leaves of Absence, Leave Sharing Program, Holidays, Personal Days

**Benefits Unique to St. Jude**  
On-Site Travel Office, On-Site Farmer’s Market, On-Site Credit Union, Free Parking
CURRENT FACULTY

Elisabeth Adderson, MD | Fellowship Program Director | Associate Member, St. Jude Faculty
Sandra Arnold, MD | Chief, Division of Infectious Disease, LBCH | Professor of Pediatrics, UTHSC
Bindiya Bagga, MD | Assistant Professor of Pediatrics, UTHSC
Miguela Caniza, MD | Associate Member, St. Jude Faculty
Maria Carrillo Marquez, MD | Assistant Professor of Pediatrics, UTHSC
John DeVincenzo, MD | Medical Director, Molecular Diagnostics /Virology Lab, LBCH | Professor, UTHSC
Pat Flynn, MD | Deputy Clinical Director and Member, St. Jude Faculty
Aditya Gaur, MD | Associate Member, St. Jude Faculty
Hans Haecker, MD, PhD | Associate Member, St. Jude Faculty
Hana Hakim, MD | Assistant Member, St. Jude Faculty
Julia Hurwitz, PhD | Member, St. Jude Faculty
Suzanne Jackowski, PhD | Member, St. Jude Faculty
Akinobu Kamei, MD | Research Associate, St. Jude Faculty
Katherine Knapp, MD | Staff Physician, St. Jude Faculty
Gabriela Maron Alfaro, MD | Assistant Member, St. Jude Faculty
Nehali Patel, MD | Staff Physician, St. Jude Faculty
Charles Rock, PhD | Member, St. Jude Faculty
Jason Rosch, PhD | Assistant Member, St. Jude Faculty
Charles Russell, PhD | Associate Member, St. Jude Faculty
Stacey Schultz-Cherry, PhD | Member, St. Jude Faculty
Amber Smith, PhD | Research Associate, St. Jude Faculty
Elaine Tuomanen, MD | Chair, Department of Infectious Diseases | Member, St. Jude Faculty
Richard Webby, PhD | Member, St. Jude Faculty
Robert Webster, PhD | Emeritus, St. Jude Faculty
Joshua Wolf, MD | Assistant Member, St. Jude Faculty
APPLICATION PROCESS

Each year the Pediatric Infectious Diseases Fellowship Program accepts up to three new fellows.

To apply, please submit the following documents by email to IDFellowship@stjude.org:

- CV
- Personal statement
- Medical School Transcript
- USMLE scores
- ECFMG certification (if applicable)
- At least 3 recent letters of recommendation*

*Please note: only original letters of recommendation submitted directly by the referee will be considered.

Additional information can be found at www.stjude.org/id-fellowship.

Highly qualified applicants will be offered an interview. Interviews typically last a full day and afford the applicant an opportunity to meet the faculty and current fellows, and to tour the facilities. The costs of the interview, including airfare, lodging, and meals are provided by St. Jude.