# UNIVERSITY OF PITTSBURGH

Pittsburgh, PA

#### **PROGRAMS OFFERED**

We provide in-depth, protected anatomic and clinical pathology subspecialty training to prepare candidates for academic, community, and independently funded research careers. We recruit across all ACGME accredited tracks including single track anatomic or clinical pathology or combined track anatomic and clinical pathology. Single track is encouraged for candidates who know they want to pursue a tertiary care, academic or independently funded research career. Residency in-depth subspecialty training is provided through distinct anatomic and clinical pathology core rotations. On all anatomical pathology rotations residents are supported by and work closely with a team of well trained and experienced pathology assistants and clinical fellows. The subspecialty resident training is enhanced by integration with our numerous subspecialty fellowships to which many of our residents are recruited. The department offers fellowships (24 total positions) in Surgical Pathology (1), Cytopathology (2), Neuropathology (2), Hematopathology (2), Pediatric Pathology (1), Gynecologic and Breast Pathology (3), Bone and Soft Tissue Pathology (1), Thoracic Pathology (1), Transplant Pathology (1), Gastrointestinal Pathology (2), Genitourinary Pathology (1), Transfusion Medicine (1), Molecular Genetic Pathology (2), Head and Neck Pathology (1), Pathology Informatics (1), and Dermatopathology (2). Residents also train in renal/electron microscopy, autopsy pathology, and forensic pathology. Clinical pathology core training includes Chemistry, Toxicology, Hematology, Transfusion Medicine and Blood Banking, Immunopathology, Tissue Typing, Microbiology Virology, and Informatics. Molecular Pathology training includes Molecular Molecular Hematopathology, Molecular Anatomic Pathology, Molecular Microbiology, and Cytogenetics. On all clinical pathology rotations, residents work closely with a team of laboratory medicine technologists and supervisors - many with specific assignments to teach residents. The core training in CP also includes four weeks of adult laboratory management training as a Junior Laboratory Director. Across all areas of training residents are exposed to state-of-the-art technology innovation, digital imaging, molecular diagnostics, genomics, quality improvement and patient safety, informatics, and research opportunities. We are an early adopter of the PIER (Pathology Informatics Essentials for Residents) program. A robust electives program enables residents to "tailor" their overall training experience to focus on subspecialty training, research pursuits, preparation for community practice or commerical laboratory practice. The research opportunities are enhanced by close cooperation between researchers within the department engaging in basic and clinical research. Our residents are strongly encouraged to participate in research and submit abstracts and publications of their work to national meetings and journals. Resident training is enriched by a multi-academic hospital experience, including adult, pediatric, and women's health specialty hospitals, driven by the location of clinical programs as part of the UPMC Center of Excellence patient care model. Candidates interested in an independently funded research career are considered for our research track through our PIRRT (Pathologist Investigator Residency/Research Training) program where at least one additional year of funded training is provided. The research track is particularly well suited to MD PhD candidates.

UPMC has received national recognition as one of America's Best Hospitals.

The UPMC Pathology residency program has an excellent track record for the American Board of Pathology first-time takers board pass rate - 98% AP and 100% CP for the last seven years.

Full information on the Department of Pathology at UPMC can be found on the Department's website at <a href="http://path.upmc.edu">http://path.upmc.edu</a>.

## TYPES AND NUMBERS OF APPOINTMENTS

Currently we are accredited by the ACGME for thirty-three positions. Over the past few years we have on average been staffed with 28 residents. Most residents enter at the PGY1 level; higher-level resident positions are rarely available. Under the ACGME accreditation system, we have been approved each year for accreditation with commendation and no citations.

#### **FACILITIES**

The University of Pittsburgh Medical Center (UPMC), located adjacent to the University of Pittsburgh in the Oakland section of Pittsburgh, is the major academic medical center serving central and western Pennsylvania, northern West Virginia and eastern Ohio. An outstanding volume and breadth of experience is obtained through training in five core general and subspecialty hospitals with a total bed capacity of approximately 2,000. **UPMC Presbyterian University Hospital**, the home of many national and internationally recognized programs, is the major academic hospital and houses many subspecialty areas and research programs in the Department. **UPMC Shadyside Hospital**, adjacent to the NCI-funded comprehensive Hillman Cancer Center offers excellent exposure to the diversity of material and demands associated with a hospital combining academic medicine and premier community practice as well as outstanding subspecialty training in several areas. **Magee-Womens Hospital of UPMC** offers an unparalleled experience in cytopathology, gynecologic, breast and perinatal pathology. The

**Veterans Affairs Medical Center** and the **Children's Hospital of Pittsburgh of UPMC** provide excellent exposure to geriatric and pediatric pathology. Over 100 faculty at these sites are members of the Department. UPMC has been repeatedly judged among the 'best of the best' hospitals in America in U.S. News and World Report. The University and Medical Center as well as the Department rank among the top four sites for NIH-funded research with active programs in basic and transplant immunology, cardiovascular biology, neurosciences, cancer biology and genetics, gene therapy, and many other fields. Over 100,000 surgical specimens, 160,000 cytology specimens, 400 autopsies, and 8,000,000 clinical tests were evaluated in primary residency training sites. Residents receive training in forensic pathology at the Allegheny County Medical Examiner's Office.

#### COMMUNITY

Hailed repeatedly in surveys as one of America's most livable cities, Pittsburgh no longer produces steel but has transitioned into a center with a diverse service economy featuring a large number of major corporate headquarters. It has become a city with a vibrant young professional community. Western Pennsylvanians are gracious and friendly, even when cheering professional sports franchises in baseball, football and hockey or college teams. Among the most beautiful and affordable cities in the United States, Pittsburgh offers an interesting blend of rivers, bridges, skyscrapers, hills, tunnels, distinctive public buildings, and affordable and safe neighborhoods. Recreational opportunities lie close by including excellent skiing, hiking, fishing, camping, boating, kayaking and white-water rafting; very few areas can boast as interesting or challenging a diversity of private and public golf courses. A rich array of cultural opportunities includes the Carnegie Museums and Library, vigorous theater programs, and the world-class Pittsburgh Symphony and Pops Orchestras.

## STIPENDS AND MAINTENANCE

The 2020-2021 schedule of remuneration for graduate medical trainees at UPMC is anticipated to be: PGY1-\$59,727, PGY2-\$61,823, PGY3-\$63,672, PGY4-\$65,900. Health, life, disability, and professional liability insurance are provided along with parking, surgical scrub outfits, and lab coats. All residents receive a laptop computer, which they take with them upon graduation. A \$1,000 fund is provided annually to each resident for books, dues, conference travel, and other purposes. Attendance at national meetings is also supported for residents presenting investigative results. Trainees are reimbursed for application fees and expenses to take the American Board of Pathology Certification examinations following the final year. Maternity leave is covered under short-term disability.

#### **STAFF**

A complete roster of Department of Pathology faculty, listed alphabetically or by Division, can be found at <a href="http://path.upmc.edu/Personnel/Faculty/faculty.htm">http://path.upmc.edu/Personnel/Faculty/faculty.htm</a>

## **PROFESSORS**

George Michalopoulos MD, PhD Chairman; hepatic pathology, growth factors and liver regeneration; R. Marshall Austin MD gynecologic pathology, cytopathology; Sheldon Bastacky MD nephropathology, genitourinary pathology; Michael Becich MD, PhD informatics; Rohit Bhargava MBBS gynecologic pathology; Harry Blair MD bone physiology/pathology; Charleen Chu MD, PhD neuropathology, ophthalmic pathology; Sanja Dacic MD, PhD pulmonary, molecular anatomic pathology; Marie DeFrances MD, PhD hepatic, molecular pathology; Anthony Demetris MD transplant, liver pathology; Rajiv Dhir MD genitourinary pathology, tissue banking; Ronald Jaffe MD pediatric pathology; Mirka Jones MD gynecologic pathology; Scott Kulich MD, PhD neuropathology; Joseph Locker MD molecular anatomic pathology; Jianhua Luo MD, PhD experimental, molecular, cellular and anatomic molecular pathology; Michael Nalesnik MD transplant pathology, lymphoproliferative disorders; Yuri Nikiforov MD, PhD molecular anatomic pathology; Marina Nikiforova MD molecular anatomic pathology; N. Paul Ohori MD cytopathology, fine needle aspiration; Tim Oury MD, PhD molecular diagnostics, oxidative injury; Liron Pantanowitz MD cytopathology, AIDS; A. William Pasculle ScD medical microbiology; Parmjeet Randhawa MD transplant pathology; Miguel Reyes-Mugica MD pediatric pathology; Charles R. Rinaldo, Jr. PhD viral immunology, AIDS; Karen Schoedel MD bone and soft tissue pathology; Raja Seethala MD head and neck pathology; Michael Shurin MD, PhD immunopathology; Steven Swerdlow MD hematopathology; Darrell Triulzi MD transfusion medicine, coagulation; Alan Wells MD, DMS clinical pathology, cell motility, cancer biology; Clayton Wiley MD, PhD neuropathology; Mark Yazer MD transfusion medicine, coagulation; Samuel Yousem MD pulmonary, mediastinal pathology; Abdolreza Zarnegar PhD cellular and molecular pathology; Adriana Zeevi PhD immunopathology; Chengquan Zhao MD gynecologic pathology.

#### **ASSOCIATE PROFESSORS**

Rajnikant Amin MD community hospital pathology, gynecologic pathology; Nathanael Bailey MD hematopathology; Gloria Carter MD gynecologic pathology, cytopathology; Simion Chiosea MD head and neck pathology; Beth Z Clark MD gynecologic pathology, cytopathology; Jon Davison MD gastrointestinal pathology;

Steven Dobrowolski PhD clinical chemistry; Esther Elishaev MD gynecologic pathology; Sarah Gibson MD hematopathology; Douglas Hartman MD gastrointestinal pathology; Stefan Kostadinov MD perinatal pathology; Shih-Fan Kuan MD, PhD gastrointestinal pathology; Peter Lucas MD, PhD molecular genomic and experimental pathology; Sara Monaco MD cytopathology; Sara Monaghan MD hematopathology; Geoffrey Murdoch MD, PhD neuropathology; Rateesh Pai MD gastrointestinal pathology, cytopathology; Robert Peel MD endocrine pathology; Tung Phan MD, PhD microbiology; Lirong Qu MD, PhD transfusion medicine, coagulation; Anupama Sharma MD thoracic pathology; Kenichi Tamama MD, PhD clinical pathology; Jing Yu MD, PhD gynecologic pathology, cytopathology.

## **ASSISTANT PROFESSORS**

Nidhi Aggarwal MD hematopathology; Evan Baker MD community hospital pathology; Tanner Bartholow MD autopsy pathology; Grant Bullock PhD hematopathology; Irina Chibisov MD transfusion medicine; Miroslav **Djokic** MD hematopathology; **Katherine Doeden** MD general pathology; **Jeffrey Fine** MD gynecologic pathology, informatics; Roy Frye MD, PhD cellular and molecular pathology; Ana Marie Gomez MD pediatric pathology; Smiljana Istvanic MD general pathology; Ivy John MD bone and soft tissue pathology; Alesia Kaplan MD transfusion medicine; Alesia Kaplan MD transfusion medicine; Arivarasan Karunamurthy MD molecular pathology, dermatopathology, bone and soft tissue pathology; Julia K Kofler MD neuropathology; Scott Kulich MD neuropathology; Michael Landau MD gastrointestinal pathology; Agnes Liman MD cytopathology, surgical pathology; Yen Chun Liu MD hematopathology; Changqing Ma MD, PhD gastrointestinal pathology; Marta Minervini MD transplant pathology; Stephanie Mitchell PhD microbiology; Erika Moore MD hematopathology; Olga Navolotskaia MD gynecologic pathology; Octavia Palmer PhD clinical chemistry; Gabriela Quiroga-Garza MD genitourinary pathology, cytopathology; Bryan Rea MD hematopathology; Somak Roy MD molecular genomic pathology; Jansen Seheult MD transfusion medicine; Jagjit Singh MD community hospital pathology; Aatur Singhi MD, PhD gastrointestinal pathology; Humberto Trejo Bittar MD thoracic pathology; Sarah Wheeler PhD immunopathology, chemistry; Juan Xing MD cytopathology; Qingyong Xu PhD tissue typing; Svetlana Yatsenko MD cytogenetics.

#### **APPLICATIONS**

Positions are offered to graduates of medical or osteopathic schools in the United States or Canada or international medical graduates with an ECFMG certificate holding permanent resident status or eligible for a J-1 visa in the USA. H1B visa sponsorship is considered for highly competitive candidates with a strong academic record. General application materials for the program year beginning in 2021 should be submitted through the AAMC Electronic Residency Application Service (ERAS). These are reviewed beginning in October. We prefer to receive applications through ERAS for upper level positions. Applications to start training in July of 2021 should be received by October 31, 2020; earlier application is strongly recommended. Interviews are by invitation in the Fall and are mandatory. Orientation for new trainees begins in July.

#### Address inquiries to:

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