

# **MILTON S. HERSHEY MEDICAL CENTER**

## **PENN STATE COLLEGE OF MEDICINE**

Hershey, Pennsylvania

### **PROGRAMS OFFERED**

The Pathology residency program at Penn State University College of Medicine / Penn State Milton S. Hershey Medical Center is designed to train pathologists for independent practice in an academic medical center, community hospital, commercial laboratory, or other type of pathology-focused career. Anatomic and Clinical Pathology (APCP) and Anatomic Pathology (AP) tracks are available. Anatomic Pathology training includes rotations in surgical pathology, autopsy pathology, cytopathology, neuropathology, hematopathology, dermatopathology, forensic pathology, and other specialized areas. The resident plays a central role in each of these services, with opportunities to examine a very broad spectrum of common and uncommon disorders. Immunohistochemistry, flow cytometry, molecular pathology, and electron microscopy techniques are incorporated into these and other rotations. Clinical Pathology training encompasses chemistry, hematology, microbiology, virology, blood bank and transfusion medicine, immunology, HLA, molecular pathology, cytogenetics, and a Clinical Pathology Consultation service which offers the resident a chance to serve as a laboratory medicine consultant to other physicians and play a “junior medical director” role. Laboratory management, informatics, and quality improvement education is integrated into rotations in Anatomic and Clinical Pathology. Our residency educational program provides learning through active participation in service-based activities, a comprehensive core curriculum of didactic lectures and slide conferences, numerous interdisciplinary patient care and educational conferences, and experiential learning opportunities in quality improvement and laboratory management. In addition to the rich clinical education provided to residents, opportunities for developing educational and investigative skills are abundant. The Department also offers four ACGME-accredited fellowships in Blood Bank/Transfusion Medicine, Dermatopathology, Hematopathology, and Surgical Pathology (see individual listings for additional information).

### **TYPES AND NUMBERS OF APPOINTMENTS**

The program includes twelve resident positions. Approximately four PGY-1 positions are offered each year.

### **FACILITIES**

The faculty, residents, and main laboratory facilities are housed in the Penn State Milton S. Hershey Medical Center, a tertiary care academic hospital with approx. 500 beds. Recent growth includes a new free-standing Cancer Institute, outpatient surgical center, clinic building, and rehabilitation hospital, and a free-standing Children’s Hospital is under construction. Clinical laboratories are modern and offer the full range of clinical services. Departmental laboratories and an extensive institutional core laboratory system support research. Service volumes are approx. 2,000,000 clinical laboratory tests; 80 autopsies; 40,000 surgical specimens; 22,000 cytology specimens including 2,000 fine needle aspiration specimens; 1,150 bone marrow specimens; 900 apheresis procedures; and, 150 peripheral blood hematopoietic stem cell collections.

### **COMMUNITY**

Hershey is a picturesque community of approximately 20,000 people lying 12 miles from Harrisburg, the state capital. Over one million people live within a fifty-mile radius. Surrounded by rich farm lands and close to urban centers of the eastern seaboard, Hershey can be described as a suburban community in a rural setting. It has excellent educational and recreational programs and facilities, outstanding musical and stage performances, numerous fine arts and cultural offerings, and is home to a world-famous amusement park. Outdoor activities include golf, swimming, fishing, hunting, mountain climbing, and skiing. Philadelphia, Baltimore, Washington, New York City, and the Pennsylvania Dutch country are just short distances by automobile or train. The Harrisburg International Airport (MDT) is 15 minutes from Hershey, and airports in both Baltimore and Philadelphia are about 2 hours away by car.

### **STIPENDS AND MAINTENANCE**

Salaries are comparable with salaries in the northeast as well as the rest of the United States, and residents are provided with professional liability insurance, health insurance, disability insurance, uniforms, laundry, and four weeks paid vacation per year. The Department also provides yearly stipends that can be used for support of continuing medical education expenses, dues and membership, books, and subscriptions.

**Department Chair and Pathology Residency Program Director**

**Dani S. Zander MD**, pulmonary pathology, cytopathology.

**Anatomic Pathology**

**Catherine S. Abendroth MD** (Director of Anatomic Pathology), fine needle aspiration cytology, nephropathology, surgical pathology; **Jennifer W. Baccon MD PhD**, neuropathology, renal pathology, autopsy pathology; **Michael G. Bayerl MD**, hematopathology, surgical pathology; **Kristina R. Brannock MD**, anatomic and clinical pathology; **Loren E. Clarke MD** (Assoc. Director of the Pathology Residency Program), dermatopathology, surgical pathology; **Henry S. Crist MD**, surgical pathology; **Edward A. Eisenhower MD**, anatomic and clinical pathology; **Elizabeth E. Frauenhoffer MD**, orthopaedic pathology, surgical pathology, cytopathology; **Bing Han MD PhD**, breast pathology, surgical pathology; **Klaus F. Helm MD**, dermatopathology, dermatology; **Michael D. Iofredda MD**, dermatopathology, dermatology; **Jozef Malysz MD**, hematopathology; **Mariah B. McCready MD**, anatomic and clinical pathology; **Karmaine Millington MD**, pediatric, perinatal, and placental pathology; **Francesca M. Ruggiero MD**, gastrointestinal pathology, surgical pathology; **Charles S. Specht MD**, neuropathology; **Nicole C. Williams MD, MBA**, cytology head and neck pathology, breast pathology; **Zhaohai Yang MD PhD**, gastrointestinal and liver pathology, oncologic pathology; **Richard J. Zaino MD**, gynecologic pathology, surgical pathology.

**Clinical Pathology**

**Ronald E. Domen MD** (Interim Director of Clinical Pathology), blood banking/transfusion medicine, apheresis, histocompatibility, bioethics; **Peter C. Appelbaum MD**, clinical and research microbiology; **William J. Castellani MD** (Assoc. Director of the Pathology Residency Program), clinical chemistry; **Melissa R. George DO**, transfusion medicine, apheresis, hematology; **Wallace Greene PhD**, virology; **Mary Beth Miele PhD** (Residency Program Coordinator), microbiology; **Hiroko Shike MD**, histocompatibility and immunogenetics.

**Experimental Pathology**

**Keith C. Cheng MD PhD** (Director of Experimental Pathology), genomic instability, tumor progression, zebrafish, melanogenesis; **Neil D. Christensen PhD**, papillomavirus immunology; **Gary Clawson MD PhD**, nuclear scaffold, HPV, HBV, ribozymes; **Kristin A. Eckert PhD**, enzymology of DNA synthesis, DNA repair mechanisms, human cell mutagenesis; **Jan McAllister PhD**, polycystic ovary disease; **David Mu PhD**, cancer genomics, lung cancer.

**APPLICATIONS**

All applicants should apply through ERAS; applications will not be accepted through the mail. Foreign medical graduates must be certified by the ECFMG. All applicants must be eligible for a Pennsylvania medical training license. An interview is required and is by invitation only.

**Address inquiries to:**

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