The Brigham and Women's Hospital Department of Pathology contributes to the highest quality of care for our patients, expands our understanding of the mechanisms of human disease and trains the next generation of leaders in Pathology. The Department recognizes that training in the art and practice of Pathology entails first-class instruction in the clinical aspects of the discipline and an integrated approach to education, research, and service, as well as a top-to-bottom Departmental ethos of opportunity and mentorship that enables a broad diversity of career paths. Key elements of the training experience are 1) recruitment of talented residents and fellows who have an interest and/or an already-established track record as either physician-scientists or clinically-oriented leaders, 2) highly flexible, in-depth and contemporary training in diagnostic pathology, laboratory medicine and transfusion medicine and their subspecialties, including molecular diagnostics, and medical and bio-informatics directed toward the future, 3) innovative educational programs and educational leadership opportunities at all levels, from undergraduate teaching at Harvard Medical School to continuing education at the national level, 4) superb opportunities for cutting-edge research at all levels, from basic to clinical/translational, and 5) an intellectually stimulating environment and collegial workplace that promotes career development.

The Brigham and Women's Hospital offers a fully ACGME-accredited program in anatomic and clinical pathology. Residents may elect to take a combined AP/CP program, or to limit their training to either AP or CP. Core AP training consists of 24 months and core CP 18 months. Additional training to satisfy Board certification is flexible and is planned to fit the career objectives of the individual resident. In the AP program, residents assume increasing responsibility under staff supervision in autopsy and surgical pathology. There are advanced rotations in pediatric and gynecologic/obstetrical, perinatal pathology, cytology, forensic pathology, neuropathology, dermatopathology, and hematopathology. There is also training in specialty fields such as renal, breast, liver, and gastrointestinal pathology, cardiac and pulmonary pathology, soft tissue pathology, genitourinary pathology, cytogentic and immunocytochemistry, flow cytometry, pathology informatics, and molecular diagnostics. The CP training program provides core rotations in chemistry, microbiology, hematology, molecular diagnostics and transfusion medicine/blood banking, and permits concentrated work in the subspecialties as well as electives in cytogentic and toxicology. The BWH Department of Pathology provides all pathology services for the Dana Farber Cancer Institute and the affiliated BWH/Faulkner campus (a community hospital environment). There are diverse opportunities for research and an extensive departmental research training program with structured career development mentorship. Research experiences span the gamut from case reports and literature review to clinical/translational projects within pathology or in collaboration with clinicians in a highly academic environment, to full-time NIH-supported computational or wet-bench projects for up to three years. Within the BWH Pathology Department, there is an extremely strong and diverse cadre of faculty working in all these research capacities, with a robust track record of publications and funding success, and a well-deserved reputation for excellence in mentoring the next generation of physician-scientist colleagues. Research interests of the faculty include: pathophysiology and molecular cell biology of vascular, renal, pulmonary, cardiovascular, and gastrointestinal diseases; immunopathology; molecular immunology; molecular biology of cancer, biochemical cell injury, soft tissue tumors, and hematopathology. Programs conducted jointly with the basic science departments at Harvard Medical School and affiliated hospitals include many other areas of research. Residents participate in the teaching program at Harvard Medical School. Separately ACGME-accredited training and fellowships are offered in cytopathology, obstetrical and gynecologic pathology, hematopathology, dermatopathology, blood bank/transfusion medicine, molecular genetic pathology, medical microbiology and neuropathology (see specialty listings).

TYPES AND NUMBERS OF APPOINTMENTS

There are 38 positions in the Anatomic and Clinical Pathology Program. Of these, 10-12 are first-year positions. Fellowship positions in the subspecialties and research fellowships are also available.

FACILITIES

The Brigham and Women’s Hospital is a primary teaching affiliate of Harvard Medical School and is situated in the Longwood Medical Area. Harvard Medical School, Children's Hospital, Dana Farber Cancer Institute, Beth Israel/Deaconness Medical Center, Countway Library of Medicine, and the Joslin Research Foundation are within a 5-minute walk. The Brigham and Women's Hospital has 766 licensed beds, 100 bassinets, a professional staff of some 2,400 members, and a house staff of over 800 residents and fellows. Each year the AP Program examines over 250 autopsies, 70,000 surgical specimens, 65,000 cytological specimens, and 30,000 molecular/cytogenetics specimens. The combined clinical laboratories perform over 5,000,000 examinations per year. The Dana Farber
STIPENDS AND MAINTENANCE
First-year residents, $61,384 per year; 2nd-year residents, $64,505; 3rd-year residents, $67,000; Chief Resident, PG year + $2,000 per year (figures as of July, 2017). Stipends for research fellows depend on level of training.

STAFF
CHAIRMAN AND EXECUTIVE VICE-CHAIRMAN
Jeffrey A. Golden MD Ramzi S. Cotran Professor of Pathology and Chairman; neuropathology; Frederick J. Schoen MD, PhD Professor and Executive Vice-Chairman; cardiac and autopsy pathology, technology innovation.

VICE-CHAIRMEN
Christopher P. Crum MD Professor; Vice-Chairman, Women's and Perinatal Pathology Division: Christopher D.M. Fletcher MD Professor; Vice-Chairman, Anatomic Pathology; soft tissue and oncologic pathology; Richard N. Mitchell MD, PhD Professor; Vice-Chairman, Education; cardiac pathology, immunopathology; autopsy pathology; Leslie E. Silverstein MD Professor; Vice-Chairman, Transfusion Medicine; Milenko J. Tanasijevic MD Associate Professor; Vice-Chairman, Clinical Laboratories; Vice-Chairman, Quality.

DIVISION DIRECTORS AND SERVICE CHIEFS
Jon C. Aster MD, PhD Professor; Chief, Hematopathology; Jane E. Broder PhD, MBBS Assistant Professor; Acting Chief, Breast Pathology; surgical pathology; Edmund S. Cibas PhD MD Professor; Director, Cytopathology Division; David M. Dorfman MD, PhD Associate Professor; Medical Director, Hematology Laboratory; Associate Director, Clinical Laboratories Division; hemopathology; Michael A. Gimbrone, Jr. MD Elsie T. Friedman Professor of Pathology; Director, Vascular Research Division; Michelle S. Hirsch MD, PhD Associate Professor; Chief, Genitourinary Pathology; gynecologic pathology; Jason L. Hornick MD, PhD Professor; Director, Surgical Pathology Division; gastrointestinal pathology; Petr Jarolim MD, PhD Associate Professor; Medical Director, Clinical Chemistry Laboratory; Richard M. Kaufman MD Associate Professor; Medical Director, Adult Transfusion Medicine; Jeffrey F. Krane MD, PhD Associate Professor; Chief, Head and Neck Pathology; surgical pathology and cytology; Frank C. Kuo MD, PhD Associate Professor; Director, Pathology Information Technology Division; hematopathology; Azra H. Ligon PhD MD Professor; Associate Director, Director, Clinical Cytogenetics; Keith L. Ligon MD, PhD Associate Professor; Director, Neuropathology Division; Neal I. Lindeman MD Associate Professor; Chief, Molecular Diagnostics; Director, Molecular Genetics Pathology Fellowship; Stacy E. F. Melanson MD, PhD Associate Professor; Associate Medical Director, Chemistry Laboratory; Associate Director, Pathology Residency Training Program; Cynthia C. Morton PhD Professor of Pathology and William Lambert Professor of Obstetrics, Gynecology, and Reproductive Biology; Director, Research Cytogenetics; George F. Murphy MD Professor; Chief, Dermatopathology Division; George L. Mutter MD Professor; Medical Director, Reproductive Endocrinology Laboratory; gynecologic pathology; Marisa R. Nucci MD Professor; Director, Pathology Residency Training Program; gynecologic pathology; Robert D. Odze MD Professor; Chief, Gastrointestinal Pathology; Andrew B. Onderdonk PhD Professor; Medical Director, Microbiology Laboratory; Robert F. Padera MD, PhD Associate Professor; Director, Autopsy Division; cardiac, pulmonary and autopsy pathology; Helmut G. Rennke MD Professor; Chief, Renal Pathology; Arlene H. Sharpe MD, PhD Professor; Director, Immunology Research Division; virology, molecular biology; Lynette M. Sholl MD Associate Professor; Chief, Pulmonary Pathology; molecular diagnostics, pulmonary pathology and surgical pathology; Gayle L. Winters MD Associate Professor; Chief, Cardiac Pathology.

FACULTY
Agoston Tony Agoston MD, PhD Assistant Professor; surgical pathology, gastrointestinal pathology; Justine Barletta MD Assistant Professor; surgical and endocrine pathology, genitourinary pathology; Frederick R. Bieber PhD Associate Professor; teratology, embryology and genetics; Vanessa Bijol MD Assistant Professor; renal pathology; Manfred Brigl MD, PhD Assistant Professor; Associate Medical Director, Microbiology Laboratory; Associate Director, Molecular Microbiology; Lynn Bry MD, PhD Associate Professor; Associate Medical Director, Microbiology Laboratory; Ruben D. Carrasco MD, PhD Associate Professor; hematopathology; Li Chai MD Associate Professor; Associate Director, Adult Transfusion Medicine; Lucian R. Chiriac MD Associate Professor; surgical and oncologic pulmonary pathology; Paola Dal Cin PhD Professor; cytogenetics; Umberto De Girolami MD Professor; neuropathology; Deborah A. R. Dillon MD Assistant Professor; breast pathology; Daniella Dinulescu PhD Assistant Professor; oncologic pathology research; Fei Dong MD Instructor; surgical pathology and molecular diagnostics; Leona Doyle MD, BCh, BAO Assistant Professor; surgical pathology, gastrointestinal pathology; Adrian Dubuc PhD Instructor; cytogenetics; Mel B. Feany MD, PhD Professor; neuropathology and
neurogenetics; Jonathan A. Fletcher MD Associate Professor; tumor cytogenetics; Christopher A. French MD Associate Professor; cytopathology; Elena G. Galvanek MD Assistant Professor; cytopathology; Guillermo Garcia-Cardenas PhD Associate Professor; vascular research; Georg K. Gerber MD, PhD Assistant Professor; molecular diagnostics and informatics; Anne B. Giersch PhD Assistant Professor; cytogenetics; Scott R. Grant MD Associate Professor; dermatopathology; John W Hanna MD, PhD Assistant Professor; dermatopathology and research; Beth T. Harrison MD Instructor; breast pathology; Brooke L Howitt MD Assistant Professor; gynecologic and genitourinary pathology; David H. Hwang MD Instructor; pulmonary pathology, cytology, surgical pathology, and informatics; Vickie Jo MD Assistant Professor; surgical pathology, cytopathology; Annette Kim MD, PhD Associate Professor; hematology and molecular diagnostics; Lester Kobzik MD Professor; pulmonary pathology; Alvaro C. Laga MD, MMSc Assistant Professor; dermatopathology; William Lane MD, PhD Instructor; transfusion medicine, histocompatibility, informatics; Kenneth R. Lee MD Associate Professor; cytopathology; Susan C. Lester MD, PhD Assistant Professor; breast pathology; Christine G. Lian MD Assistant Professor; dermatopathology and dermatopathology research; Andrew H. Lichtman MD, PhD Professor; immunological research; autopsy pathology; Hart Lidov MD Associate Professor; Neuropathology; Massimo Loda MD Professor; urologic and surgical pathology; oncologic pathology research; Scott B Lovitch MD, PhD Instructor; hematopathology; Alarice L-Y Lowe MD Assistant Professor; surgical pathology and cytopathology; F. William Luscinskas PhD Professor; vascular research; Laura E MacConaill PhD Assistant Professor; molecular diagnostics; Tanya Mayadas-Norton PhD Professor; vascular research; David M. Meredith MD Instructor; neuropathology; David S. Milstone MD, PhD Assistant Professor; vascular research; Elizabeth A. Morgan MD Assistant Professor; hematopathology; Jonathan Nowak MD, PhD Instructor; molecular genetic pathology and gastrointestinal pathology; Shuji Ogino MD, PhD Professor; molecular diagnostics; Athena Petrides PhD Instructor; clinical chemistry; Geraldine S. Pinkus MD Professor; hematopathology; Olivier Pourquie PhD Professor; developmental biology research; Olga Pozdynakova MD, PhD Assistant Professor; Associate Medical Director, Hematology Laboratory; hematopathology and hematology; Xiaohua Qian MD, PhD Assistant Professor; cytopathology, surgical pathology; Bradley J. Quade MD, PhD Associate Professor; gynecologic pathology; Heidi L. Rehm PhD Associate Professor; molecular genetics; Scott J. Rodig MD, PhD Associate Professor; Director, Hematopathology Fellowship Training; Sandro Santagata MD, PhD Assistant Professor; neuropathology; Sabina Signoretti MD Associate Professor; translational cancer research; Amitabh Srivastava MD Associate Professor; Director, Surgical Pathology Fellowship; gastrointestinal pathology; Jerrold R. Turner MD, PhD Gastrointestinal pathology; Sara O. Vargas MD Associate Professor; pulmonary pathology; Marina Vivero MD Instructor; surgical pathology and cytopathology; Astrid Weins MD Assistant Professor; renal pathology; William R. Welch MD Associate Professor; gynecologic and surgical pathology; Tad J. Wieczorek MD Instructor, cytopathology; Sheng Xiao MD Assistant Professor; solid tumor cytogenetics.

CONSULTANTS
Theoria Boyd MD pediatric pathology, Children's Hospital; Gilbert L. Brodsky MD surgical pathology; Martha L Bulyk PhD Professor; research, genetics; Ivana Delalle MD, PhD neuropathology; Xuefei Hong MD Faulkner Hospital; Kimler S. McCully MD Director, Boston Area Clin Labs, VA Med Ctr; Matthew L Meyerson MD, PhD Professor; research, tumor genetics; Stephen M Pochebit MD Chief of Pathology, Faulkner Hospital; Lynda Rushing MD cytopathology, Mt. Auburn Hospital; Stephanie Schulte MD Faulkner Hospital; Juliana Szakacs MD surgical pathology, Chief of Pathology, Harvard Pilgrim Health Center; Peter Tonellato PhD Senior Lecturer, Part-time, bioinformatics; Sook-Bin Woo DMD, MMSc oral pathology; .

APPLICATIONS
Only applications received via ERAS by November 1 will be considered. Residency positions begin July 1 of the following year. Medical school seniors receive appointments through the National Resident Matching Program. An interview is mandatory.

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