Our world-renowned team of digital pathology experts at The Ohio State University Comprehensive Cancer Center – Arthur G. James Cancer Hospital and Richard J. Solove Research Institute (OSUCCC – James) is transforming how cancers are prevented, detected, treated and cured. They do this by collaborating with researchers and expert physicians. In return, they provide leading-edge, clinically advanced and cost-effective diagnostics, using the most sophisticated technology available.

We use high-capacity scanners to convert traditional glass slides into high-resolution digital images. This technology allows our pathologists to review image details comprehensively, share images for second opinions and report findings to a patient’s team of physicians—all from one device.

Through state-of-the-art technology and collaboration spanning a wide range of disciplines, we can easily access and review comprehensive information about a patient’s current diagnostic testing and results as well as information about previous testing and results. We can then compare those outcomes with current information to develop the best individualized care plan for each patient.

We welcome the opportunity to partner with you in caring for your patients, whether recently diagnosed, currently on therapy or looking for a second opinion. We are committed to maintaining consistent, thorough communication with you about your patients and to keeping you well-informed about their treatment at the OSUCCC – James.

To refer a patient or speak with one of our experts, all 614-293-5066 or 614-293-XXXX.
CONSULT PHYSICIANS

Bone and Soft Tissue

O. Hans Iwenofu, MD
Associate Professor
Subspecialties:
• Bone and Soft Tissue
• Head and Neck

I earned my MD at the College of Medicine, University of Nigeria in Enugu, Nigeria. I started my residency at the University College Hospital Ibadan, Nigeria, before coming to the United States, where I completed my residency training in anatomic and clinical pathology at the University of Oklahoma Health Sciences Center in Oklahoma City. I went on to complete a fellowship in oncologic surgical pathology at Roswell Park Cancer Institute in Buffalo, New York, followed by a fellowship in soft tissue/bone pathology at the University of Pennsylvania in Philadelphia.

Paul E. Wakely, Jr., MD
Professor
Subspecialties:
• Bone and Soft Tissue
• Cytopathology
• Head and Neck

I am a board certified surgical pathologist and cytopathologist specializing in head and neck surgical pathology as well as soft tissue/bone pathology and FNA cytopathology. I have been in practice since 1983 and have been a tenured professor in the Department of Pathology at The Ohio State University Wexner Medical Center for the past 22 years. I have lectured at multiple national and international courses in pathology with regard to cytopathology and surgical pathology of the thyroid, salivary gland and other regions of the head and neck as well as lymph node and soft tissue cytopathology.

Xiaoyan Cui, MD, PhD
Assistant Professor
Subspecialties:
• Bone and Soft Tissue
• Breast
• Gynecologic

I am an assistant professor in the Anatomic Pathology Branch. I received my MD from Qingdao University Medical College in China and my PhD from Saint Louis University. I completed my residency in anatomic and clinical pathology at the University of Alabama at Birmingham. My fellowship training included a surgical pathology fellowship at The University of Texas MD Anderson Cancer Center and a breast pathology fellowship at Weill Cornell Medical College. I am board certified in anatomic and clinical pathology.

Breast

Gary Tozbikian, MD
Associate Professor
Subspecialties:
• Breast
• Gynecologic

I am director of the Breast Pathology Division at The Ohio State University Wexner Medical Center, which is a high-volume service composed of a team of seven highly experienced subspecialty pathologists who annually review 4,500 specimens. Second opinion consult review comprises 25% of our case volume. As director of the Breast Pathology Division, I have dedicated my efforts toward promoting the delivery of the highest quality and most efficient diagnostic services to our patients, referring pathologists and clinical colleagues.
**Zaibo Li, MD, PhD**  
*Associate Professor*

- **Subspecialties:**  
  - Breast  
  - Gynecologic

I am serving as section editor for the journal Diagnostic Pathology and associate editor for the journal BMC Cancer. I also have served in multiple national society committees, including CAP (College of American Pathologists) Cytopathology Committee, USCAP (United States & Canadian Academy of Pathology) Finance Committee and Abstract Review Committee, ASC (American Society for Cytopathology) Cyto-econference Committee and Finance Committee, Digital Pathology Association (DPA) Education Committee, Chinese American Pathologist Association (CAPA) Cytopathology Subcommittee and Finance Committee.

**Debra Zynger, MS, MD**  
*Professor*

- **Subspecialties:**  
  - Breast  
  - Genitourinary

I am a professor in the Department of Pathology and Department of Urology at The Ohio State University in Columbus, Ohio, where I direct the Division of Urologic Pathology. I earned my MS in genetics from Stanford University and an MD from Indiana University. I completed my residency training in anatomic and clinical pathology at Northwestern University and my urologic pathology fellowship at the University of Pittsburgh.

**Xiaoyan Cui, MD, PhD**  
*Assistant Professor*

- **Subspecialties:**  
  - Bone and Soft Tissue  
  - Breast  
  - Gynecologic

I am an assistant professor in the Anatomic Pathology Branch. I received my MD from Qingdao University Medical College in China and my PhD from Saint Louis University. I completed my residency in anatomic and clinical pathology at The University of Alabama at Birmingham. My fellowship training included a surgical pathology fellowship at The University of Texas MD Anderson Cancer Center and a breast pathology fellowship at Weill Cornell Medical College. I am board certified in anatomic and clinical pathology.

**Tiansheng Shen, MD, PhD**  
*Assistant Professor*

- **Subspecialties:**  
  - Breast  
  - Gastrointestinal

I received a solid pathology residency training followed by comprehensive fellowship trainings both in general surgical pathology and in breast pathology. Now as a junior faculty member at The Ohio State University Wexner Medical Center, I am independently signing out a wide array of surgical pathology cases, including breast in-house and consult cases. With my solid training and experience, I believe that I have the skill set to assess even more complex cases on the consult service in breast pathology.
Breast (continued)

Stephen Moore, MD  
Assistant Professor  
Subspecialties:  
• Breast  
• Frozen Section

MD, The Ohio State University College of Medicine, Columbus, Ohio  
Residency and Fellowship: Fellow, Surgical Pathology, Columbia University, College of Physicians and Surgeons, New York, New York; Residency, Anatomic, University of Cincinnati Medical Center, Cincinnati, Ohio  
Board certification: AP  
Research interests: Breast Disease, Frozen Section Quality Assurance  
Papers written: 8

I am a clinical assistant professor in the Division of Breast Pathology, Anatomic Pathology Branch. I received my MD in 1976 from The Ohio State University. I completed my residency training in anatomic pathology in 1980 at the University of Cincinnati Medical Center, and in 1981 I completed a surgical fellowship at Columbia University College of Physicians and Surgeons in New York.

Rongqin Ren, MD, PhD  
Assistant Professor  
Subspecialties:  
• Breast  
• Cytopathology

MD, Medical School of Fudan University, Shanghai, China  
PhD, University of North Carolina at Chapel Hill, North Carolina  
Residency and Fellowship: AP/CP Residency, East Carolina University, Greenville, North Carolina; Molecular Genetic Pathology Fellowship and Cytopathology Fellowship, Virginia Commonwealth University, Richmond, Virginia  
Board certification: AP/CP, Cytopathology and Molecular Genetic Pathology  
Research interests: Diagnostic and Prognostic Molecular Profiling in Both Solid and Hematopoietic Tumors  
Papers written: 107

I serve in three high-volume services at The Ohio State University Wexner Medical Center, including molecular genetic pathology, cytopathology and breast pathology. For molecular pathology, the division provides clinical molecular diagnostics for a wide range of cancers and other heritable disorders. The Division of Cytopathology performs diagnostic testing on approximately 30,000 gynecologic and non-gynecologic cases per year.

Cytopathology

Rulong Shen, MD  
Associate Professor  
Subspecialties:  
• Cytopathology  
• Gynecologic

MD, Zhejiang Medical College, Hangzhou, China  
Residency and Fellowship: Cytopathology Fellow, Detroit Medical Center, Wayne State University, Detroit, Michigan; Resident, AP/CP, Medical College of Ohio, Toledo, Ohio; Surgical Pathology Fellow, Nanjing Medical University, Department of Pathology, Nanjing, China; Resident, Department of Pathology, Zhejiang Medical College  
Board certification: AP/CP, Cytopathology  
Papers written: 107

I am an associate professor-clinical and director of the Cytology Division, Anatomic Pathology Branch. I earned my MD from Zhejiang Medical College in China. I completed a residency in anatomic and clinical pathology at the University of Cincinnati Medical Center in Cincinnati, Ohio, followed by a residency in pathology at the Medical College of Ohio in Toledo. I went on to complete a fellowship in cytopathology at Detroit Medical Center, Wayne State University. I am board certified in anatomic pathology, clinical pathology and cytopathology.

Paul E. Wakely, Jr., MD  
Professor  
Subspecialties:  
• Bone and Soft Tissue  
• Cytopathology  
• Head and Neck

MD, St. Louis University School of Medicine, St. Louis, Missouri  
Residency and Fellowship: University of Michigan in Ann Arbor, Michigan/Cincinnati Children’s Hospital Medical Center in Cincinnati, Ohio/Johns Hopkins University in Baltimore, Maryland  
Board certification: AP/CP  
Research interests: Head and Neck, Cytopathology, Soft Tissue  
Papers written: > 200 peer-reviewed publications

I am a board certified surgical pathologist and cytopathologist specializing in head and neck surgical pathology as well as soft tissue/bone pathology and FNA cytopathology. I have been in practice since 1983 and have been a tenured professor in the Department of Pathology at The Ohio State University Wexner Medical Center for the past 22 years. I have lectured at multiple national and international courses in pathology with regard to cytopathology and surgical pathology of the thyroid, salivary gland and other regions of the head and neck as well as lymph node and soft tissue cytopathology.
Adrian Suarez, MD
Associate Professor

Subspecialties:
- Cytopathology
- Frozen Section
- Gynecologic

MD, University of Costa Rica School of Medicine
Residency and Fellowship: Cytopathology Fellowship, Washington University School of Medicine, St. Louis, Missouri; Surgical Pathology Fellowship, Washington University School of Medicine, St. Louis, Missouri; Anatomic and Clinical Pathology Residency, Saint Louis University School of Medicine, St. Louis, Missouri; Pathology Residency, Calderon Guardia Hospital, San José, Costa Rica
Board certification: AP/CP, Cytopathology
Research interests: Gynecologic Malignancies
Papers written: 41

I am a diagnostic surgical pathologist with expertise in gynecologic pathology and cytopathology. I also have multiple administrative roles within the Department of Pathology and tissue-based research activities. My research focuses on gynecologic malignancies with emphasis on endometrial cancer.

Abberly Lott Limbaugh, MD
Assistant Professor

Subspecialties:
- Cytopathology
- Head and Neck

MD, Wayne State University School of Medicine, Detroit, Michigan
Residency and Fellowship: Cleveland Clinic, Anatomic & Clinical Pathology, Cleveland, Ohio; University of Texas MD Anderson Cancer Center, Cytopathology, Houston, Texas; University of Chicago, Head & Neck Pathology, Chicago, Illinois
Board certification: AP/CP, Cytopathology
Research interests: Head and Neck Cancer, Salivary Gland Cancer, Thyroid Cancer, Salivary Gland Neoplasms, Salivary Gland Cytology, Cytology of the Head and Neck and Thyroid Pathology
Papers written: 12

I am a fellowship trained, board certified head and neck pathologist and cytopathologist. I have expertise in diagnosing both benign and malignant neoplasms of the head and neck. I also have board certified expertise in gynecologic, non-gynecologic and fine needle aspiration cytology.

Peter Kobalka, MD
Assistant Professor

Subspecialties:
- Cytopathology
- Frozen Section
- Neuropathology

MD, University of Toledo College of Medicine, Toledo, Ohio
Residency and Fellowship: Residency, University of Toledo Medical Center; Residency and Neuropathology Fellowship, University of California San Diego Medical Center, San Diego, California; Cytopathology Fellowship, Cleveland Clinic Foundation, Cleveland, Ohio
Board certification: AP, Neuropathology, Cytopathology
Research interests: Neuropathology Tumors, Infectious Diseases, Digital Pathology
Papers written: In process

My expertise covers the fields of neuropathology and cytopathology, with an emphasis on histopathology of tumors and infectious disease processes. My expertise on cytology is especially useful for covering the intraoperative frozen service and for interpreting unusual metastatic and infectious lesions within the brain. My involvement in several general anatomic pathology services makes me a well-rounded pathologist, able to provide comprehensive coverage of the unusual and rare pathology cases.

Rongqin Ren, MD, PhD
Assistant Professor

Subspecialties:
- Breast
- Cytopathology

MD, Medical School of Fudan University, Shanghai, China
PhD, University of North Carolina at Chapel Hill, North Carolina
Residency and Fellowship: AP/CP Residency, East Carolina University, Greenville, North Carolina; Molecular Genetic Pathology Fellowship and Cytopathology Fellowship, Virginia Commonwealth University, Richmond, Virginia
Board certification: AP/CP, Cytopathology and Molecular Genetic Pathology
Research interests: Diagnostic and Prognostic Molecular Profiling in Both Solid and Hematopoietic Tumors
Papers written: 15

I serve in three high-volume services at The Ohio State University Wexner Medical Center, including molecular genetic pathology, cytopathology and breast pathology. For molecular pathology, the division provides clinical molecular diagnostics for a wide range of cancers and other heritable disorders. The Division of Cytopathology performs diagnostic testing on approximately 30,000 gynecologic and non-gynecologic cases per year.
Dermatopathology

Jose A. Plaza, MD
Professor
Subspecialty:
• Dermatopathology

MD, Catholic University, Ecuador
Residency and Fellowship: Fellow, Dermatopathology, MD Anderson Cancer Center, Houston, Texas; Fellow, Surgical Pathology, Mayo Clinic, Rochester, Minnesota; Anatomic and Clinical Pathology, The Ohio State University Medical Center, Columbus, Ohio
Board certification: AP/CP, Dermatopathology
Research interests: Melanocytic Tumors, Adnexal Neoplasms, Cutaneous Lymphomas, Skin Immunohistochemistry
Papers written: > 85 manuscripts and 4 dermatopathology textbooks

My area of expertise includes pigmented skin lesions, adnexal skin neoplasms and immunohistochemistry in cutaneous tumors. Our dermatopathology service is dedicated to ensuring the best service to referring physicians and your patients, leading to the best possible care. We provide definitive diagnoses, ranging from routine to complex cases needing ancillary techniques. Our dermatopathologists are accessible via phone and email to address and answer your questions. We are committed to providing excellent patient care by educating future academic and community-based dermatopathologists, dermatologists, pathologists and residents. We also work to advance the understanding of skin pathology by being engaged in numerous clinical research projects. Our faculty members are nationally and internationally recognized experts in the field.

Catherine Chung, MD
Assistant Professor
Subspecialty:
• Dermatopathology

MD, State University of New York Upstate Medical University, Syracuse, New York
Residency and Fellowship: Residency, Dermatology, University of Rochester Strong Memorial Hospital, Rochester, New York; Fellowship, Dermatopathology, Penn State Health Milton S. Hershey Medical Center, Hershey, Pennsylvania
Board certification: Dermatology, Dermatopathology
Research interests: Inflammatory Dermatoses, Cutaneous Lymphoma, Cutaneous Neoplasms, Skin Infections
Papers written: 50

I am a board certified dermatologist and dermatopathologist with a special interest in cutaneous lymphoma and atypical lymphocytic infiltrates. I see patients at the James Cancer Hospital and Solove Research Institute as part of the Multidisciplinary Cutaneous Lymphoma Clinic. Additionally, I have a broad range of experience in dermatopathology specimens, including inflammatory conditions; drug eruptions; infections; histiocytic, adnexal, melanocytic and keratinocytic neoplasms; mucocutaneous disease; direct immunofluorescence; and both inpatient and outpatient settings. I have been an invited speaker and course director for the American Academy of Dermatology and American Society of Dermatopathology annual meetings for multiple years.

Frozen Section

Adrian Suarez, MD
Associate Professor
Subspecialties:
• Cytopathology
• Frozen Section
• Gynecologic

MD, University of Costa Rica School of Medicine
Residency and Fellowship: Cytopathology Fellowship, Washington University School of Medicine, St. Louis, Missouri; Surgical Pathology Fellowship, Washington University School of Medicine, St. Louis, Missouri; Anatomic and Clinical Pathology Residency, Saint Louis University School of Medicine, St. Louis, Missouri; Pathology Residency, Calderon Guardia Hospital, San José, Costa Rica
Board certification: AP/CP, Cytopathology
Research interests: Gynecologic Malignancies
Papers written: 41

I am a diagnostic surgical pathologist with expertise in gynecologic pathology and cytopathology. I also have multiple administrative roles within the Department of Pathology and tissue-based research activities. My research focuses on gynecologic malignancies with emphasis on endometrial cancer.

Lawrence DeRenne, MD
Assistant Professor
Subspecialties:
• Frozen Section
• Genitourinary
• Head and Neck

MD, Indiana University School of Medicine, Indianapolis, Indiana
Residency and Fellowship: AP/CP Residency, University of California Davis, Sacramento Medical Center, Sacramento, California; Research Fellowship in Cardiovascular Pathology at the Mayo Graduate School of Medicine in Rochester, Minnesota; Surgical Pathology Fellowship, The Ohio State University, Columbus, Ohio
Board certification: AP/CP
Papers written: 5

I am a clinical assistant professor in the Anatomic Pathology Branch. I received my MD from Indiana University School of Medicine in Indianapolis. I completed my internship at Memorial Hospital of South Bend in South Bend, Indiana, and my residency in anatomic and clinical pathology at the University of California Davis, Sacramento Medical Center. I went on to complete a research fellowship in cardiovascular pathology at the Mayo Graduate School of Medicine in Rochester, Minnesota, and a surgical pathology fellowship in the Department of Pathology at The Ohio State University.
I am a clinical assistant professor in the Division of Breast Pathology, Anatomic Pathology Branch. I received my MD in 1976 from The Ohio State University. I completed my residency training in anatomic pathology in 1980 at the University of Cincinnati Medical Center, and in 1981 I completed a surgical fellowship at Columbia University College of Physicians and Surgeons in New York.

My expertise covers the fields of neuropathology and cytopathology, with an emphasis on histopathology of tumors and infectious disease processes. My expertise on cytology is especially useful for covering the intraoperative frozen service and for interpreting unusual metastatic and infectious lesions within the brain. My involvement in several general anatomic pathology services makes me a well-rounded pathologist, able to provide comprehensive coverage of the unusual and rare pathology cases.

I received my MD from the University of Iowa Carver College of Medicine and completed a residency in anatomic and clinical pathology, as well as a surgical pathology fellowship, at the University of Iowa Hospitals and Clinics. I went on to complete a two-year fellowship in gynecologic pathology at The Johns Hopkins Hospital in Baltimore, Maryland. I am board certified by the American Board of Pathology and am a fellow of the College of American Pathologists and the American Society of Clinical Pathology.

I am a board certified anatomic and surgical pathologist, fellowship trained and with expertise in gastrointestinal, liver and pancreatico-biliary pathology. I am an associate professor-clinical. Throughout the years I’ve provided excellent clinical service as a member of clinical teams of gastroenterologists, hepatologists, surgeons, oncologists and transplant surgeons. I am the division director of Gastrointestinal, Liver and Pancreatico-Biliary Pathology at the Ohio State Wexner Medical Center, and I served as the division director of Liver Pathology for almost a decade. I participate as a collaborator in clinical and translational research projects. I also teach and mentor, on a daily basis, residents and fellows on their pathway to successful private practice and academic careers.
Wei Chen, MD, PhD  
Assistant Professor  
Subspecialties:  
• Gastrointestinal  
• Gynecologic  
• Liver  

MD, Beijing Medical University, Beijing, China  
PhD, Oregon State University, Corvallis, Oregon  
Residency and Fellowship: GI/Liver Pathology Fellowship, The Ohio State University Wexner Medical Center, Columbus, Ohio; Anatomic and Clinical Pathology Residency, PGY2-PGY4, The Ohio State University Wexner Medical Center; Anatomic and Clinical Pathology Residency, PGY1, Berkshire Medical Center, Pittsfield, Massachusetts  
Board certification: AP/CP  
Research interests: Hepatopancreaticobiliary Pathology; Colorectal Cancer; Lynch Syndrome; Digital Pathology  
Papers written: 40  

I have co-authored four book chapters in gastrointestinal and pancreas pathology. I am an author for PathologyOutlines.com, and I have given multiple invited presentations at international, national and regional levels. My interests and expertise are focused on colorectal cancer pathology and biomarkers, pancreaticobiliary pathology and liver pathology.

Wendy Frankel, MD  
Professor, Department Chair  
Subspecialties:  
• Gastrointestinal  
• Liver  

MD, University of Michigan Medical School, Ann Arbor, Michigan  
Residency and Fellowship: Surgical Pathology Fellowship, University of California San Francisco; AP/CP Residency, University of California San Diego; Residency and Research Fellow, Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania  
Board certification: AP/CP  
Research interests: GI, Liver  
Papers written: > 220  

I am a distinguished professor and chair of the Department of Pathology at The Ohio State University in Columbus, Ohio, where I hold the Ralph W. and Helen Kurtz Endowed Chair in Pathology. I also serve as director of the GI/Liver Pathology Fellowship. I graduated from medical school at the University of Michigan in 1988 and trained in surgery at the Hospital of the University of Pennsylvania from 1988-93. I then trained in anatomic and clinical pathology at the University of California at San Diego and did my surgical pathology fellowship at UC San Francisco from 1993-97. I have been a faculty member at Ohio State since 1997.

Tiansheng Shen, MD, PhD  
Assistant Professor  
Subspecialties:  
• Breast  
• Gastrointestinal  

MD, Xi’an Medical University, Xi’an, China  
PhD, Pierre and Marie Curie University, Paris, France  
Residency and Fellowship: Residency, Department of Pathology, University of Alabama at Birmingham, Birmingham, Alabama; Surgical Pathology Fellowship, Department of Pathology, The University of Texas MD Anderson Cancer Center, Houston, Texas; Breast Pathology Fellowship, Department of Pathology, Northwestern University Feinberg School of Medicine, Chicago, Illinois  
Board certification: AP/CP  
Research interests: Breast Cancer  
Papers written: 50  

I received a solid pathology residency training followed by comprehensive fellowship trainings both in general surgical pathology and in breast pathology. Now as a junior faculty member at The Ohio State University in Columbus, Ohio, I am independently signing out a wide array of surgical pathology cases, including breast in-house and consult cases. With my solid training and experience, I believe that I have the skill set to assess even more complex cases on the consult service in breast pathology.

Melinda Schumacher, MD  
Assistant Professor  
Subspecialties:  
• Gastrointestinal  

MD, Wright State University School of Medicine, Dayton, Ohio  
Residency and Fellowship: Fellow, Medical Microbiology, The Ohio State University, Columbus, Ohio; Resident, The Ohio State University, Columbus, Ohio; Resident, Kettering Medical Center, Kettering, Ohio  
Board certification: AP/CP  
Papers written: 2  

I am an assistant professor-clinical in the Community Pathology Branch. I earned my MD in 1982 from Wright State University School of Medicine in Dayton, Ohio. I began my residency in anatomic and clinical pathology at Kettering Medical Center in Kettering, Ohio, subsequently completing it at The Ohio State University in 1987. I continued and completed my training at Ohio State with a fellowship in medical microbiology in 1988.
Gastrointestinal (continued)

Lynn Schoenfield, MD
Assistant Professor

Subspecialties:
- Gastrointestinal
- Head and Neck
- Neuropathology

MD, University of Toledo Medical School, Toledo, Ohio
Residency and Fellowship: Resident, Anatomic and Clinical Pathology, Mt. Sinai Medical Center, Cleveland, Ohio; Resident, Pediatrics, University of Minnesota, Minneapolis, Minnesota; Resident, Anatomic and Clinical Pathology Residency, Hennepin County Medical Center, Minneapolis, Minnesota
Board certification: AP/CP
Research interests: Uveal Melanoma
Papers written: 57

I have practiced a wide range of subspecialties in anatomic pathology, and I have been the exclusive ocular pathologist at two large academic institutions for the last 15 years, including The Ohio State Wexner Medical Center, where I presently practice. My experience includes lesions, both neoplastic and non-neoplastic, of the eyelid, conjunctiva, cornea, internal structures of the eye, lacrimal gland and orbit. I have contributed to the ophthalmic literature in collaboration with ophthalmologists. My special interest is in uveal melanoma.

Jeff Kneile, MD
Assistant Professor

Subspecialties: 
- Gastrointestinal

MD, University of Cincinnati College of Medicine, Cincinnati, Ohio
Residency and Fellowship: Residency, AP/CP, The Ohio State University, Columbus, Ohio, AP/CP, The Ohio State University, Columbus, Ohio
Board certification: AP/CP
Papers written: 5

I am a clinical assistant professor in the Community Pathology Branch. I earned my MD from the University of Cincinnati College of Medicine. I completed my residency in anatomic and clinical pathology at The Ohio State University.

Daniela Proca, MD
Associate Professor

Subspecialties: 
- Gastrointestinal

MD, Carol Davila University of Medicine and Pharmacy, Bucharest, Romania
Residency and Fellowship: Fellow, Surgical Pathology, The Ohio State University, Columbus, Ohio; Resident, AP/CP, The Ohio State University, Columbus, Ohio
Board certification: AP/CP
Papers written: 16

I am a clinical associate professor in the Community Pathology Branch. I earned my MD from the Carol Davila University of Medicine and Pharmacy in Bucharest, Romania. I completed a residency in anatomic and clinical pathology at The Ohio State University followed by a fellowship in surgical pathology. I am board certified in anatomic and clinical pathology.

Genitourinary

Debra Zynger, MS, MD
Professor

Subspecialties: 
- Breast
- Genitourinary

MD, Indiana University School of Medicine, Indianapolis, Indiana
Residency and Fellowship: Fellow, Urologic Pathology, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania; Resident, Anatomic and Clinical Pathology, Northwestern University Feinberg School of Medicine, Chicago, Illinois
Board certification: AP
Research interests: Usage, Accuracy, Cost and Value Within Urologic Pathology Specimens; Improving Consistency in Synoptic Reporting of Urologic Cancer; Bladder Cancer Prognostication and Pathologic Reporting; Identification of Novel Urologic Diagnostic Biomarkers; Quality Improvement in Breast Cancer Pathology
Papers written: 95

I am a professor in the Department of Pathology and Department of Urology at The Ohio State University in Columbus, Ohio, where I direct the Division of Urologic Pathology. I earned my MS in genetics from Stanford University and an MD from Indiana University. I completed my residency training in anatomic and clinical pathology at Northwestern University and my urologic pathology fellowship at the University of Pittsburgh.
Genitourinary (continued)

Anil Parwani, MD, PhD, MBA
Professor, Vice Chair
Subspecialties: • Genitourinary
MD, Case Western Reserve University, School of Medicine, Cleveland, Ohio
PhD, The Ohio State University, Wooster, Ohio
MBA, University of Pittsburgh, Pittsburgh, Pennsylvania
Residency and Fellowship: Virology/Immunology, The Ohio State University, Wooster, Ohio; Residency Program, Anatomical and Clinical, Johns Hopkins Hospital, Baltimore, Maryland; Fellowship, Urological Pathology, Johns Hopkins Hospital, Baltimore, Maryland
Board certification: AP/CP
Research interests: Whole Slide Imaging, Deep Learning, AI, Informatics, Viral Immunology, Digital Pathology, Quality Assurance
Papers written: 350

I am a professor of pathology, director of anatomical pathology and pathology informatics, and I serve as vice chair of the Department of Pathology, College of Medicine, The Ohio State University. My subspecialty training is in genitourinary pathology (GU), and I was previously a member of the GU Center of Excellence at the University of Pittsburgh. My pathology practice is focused on developing immunohistochemical markers for the diagnosis of GU cancers, including prostate cancer, benign mimickers of prostate cancer, and correlation of histomorphological features of renal cell carcinoma with cytogenetic and molecular changes. I have over 15 years of experience in diagnosis of challenging GU tumors and have addressed multiple consults in these tumors.

Gary Tozbikian, MD
Associate Professor
Subspecialties: • Breast • Genitourinary
MD, The Ohio State University College of Medicine, Columbus, Ohio
Residency and Fellowship: Residency and General Surgical Pathology Fellow: Hospital of University of Pennsylvania, Philadelphia, Pennsylvania; Breast Pathology Fellow: Memorial Sloan Kettering Cancer Center, New York City, New York
Board certification: AP/CP
Research interests: Diagnostic, Predictive and Therapeutic Biomarkers in Breast Cancer, Application of Advanced Digital Imaging Technology
Papers written: 23

I am director of the Breast Pathology Division at The Ohio State University Wexner Medical Center, which is a high-volume service composed of a team of seven highly experienced subspecialty pathologists who annually review 4,500 specimens. Second opinion consult review comprises 25% of our case volume. As director of the Breast Pathology Division, I have dedicated my efforts toward promoting the delivery of the highest quality and most efficient diagnostic services to our patients, referring pathologists and clinical colleagues.

Lawrence DeRenne, MD
Assistant Professor
Subspecialties: • Frozen Section • Genitourinary • Head and Neck
MD, Indiana University, School of Medicine, Indianapolis, Indiana
Residency and Fellowship: AP/CP Residency, University of California Davis, Sacramento Medical Center, Sacramento, California; Research Fellowship in Cardiovascular Pathology at the Mayo Graduate School of Medicine in Rochester, Minnesota; Surgical Pathology Fellowship, The Ohio State University, Columbus, Ohio
Board certification: AP/CP
Papers written: 5

I am a clinical assistant professor in the Anatomic Pathology Branch. I received my MD from Indiana University School of Medicine in Indianapolis. I completed my internship at Memorial Hospital of South Bend in South Bend, Indiana, and my residency in anatomic and clinical pathology at the University of California Davis, Sacramento Medical Center. I went on to complete a research fellowship in cardiovascular pathology at the Mayo Graduate School of Medicine in Rochester, Minnesota, and a surgical pathology fellowship in the Department of Pathology at The Ohio State University.

Gynecologic

Adrian Suarez, MD
Associate Professor
Subspecialties: • Cytopathology • Frozen section • Gynecologic
MD, University of Costa Rica School of Medicine
Residency and Fellowship: Cytopathology Fellowship, Washington University School of Medicine, St. Louis, Missouri; Surgical Pathology Fellowship, Washington University School of Medicine, St. Louis, Missouri; Anatomic and Clinical Pathology Residency, Saint Louis University School of Medicine, St. Louis, Missouri; Pathology Residency, Calderon Guardia Hospital, San José, Costa Rica
Board certification: AP/CP, Cytopathology
Research interests: Gynecologic Malignancies
Papers written: 41

I am a diagnostic surgical pathologist with expertise in gynecologic pathology and cytopathology. I also have multiple administrative roles within the Department of Pathology and tissue-based research activities. My research focuses on gynecologic malignancies with emphasis on endometrial cancer.
Gynecologic (continued)

Zaibo Li, MD, PhD
Associate Professor
Subspecialties:
- Breast
- Gynecologic

MD/PhD, Peking University, Beijing, China/University of Rochester, Rochester, New York
Residency and Fellowship: UPMC; Breast/Gynecologic Pathology Fellowship: University of Pittsburgh Medical Center (UPMC), Pittsburgh, Pennsylvania
Board certification: AP/CP and Cytopathology
Research interests: Breast Pathology, Gynecologic Pathology and Cytopathology
Papers written: 99

I am serving as section editor for the journal Diagnostic Pathology and associate editor for the journal BMC Cancer. I also have served in multiple national society committees, including CAP (College of American Pathologists) Cytopathology Committee, USCAP (United States & Canadian Academy of Pathology) Finance Committee and Abstract Review Committee, ASC (American Society for Cytopathology) Cyto-econference Committee and Finance Committee, Digital Pathology Association (DPA) Education Committee, Chinese American Pathologist Association (CAPA) Cytopathology Subcommittee and Finance Committee.

Wei Chen, MD, PhD
Assistant Professor
Subspecialties:
- Gastrointestinal
- Gynecologic
- Liver

MD, Beijing Medical University, Beijing, China
PhD, Oregon State University, Corvallis, Oregon
Residency and Fellowship: GI/Liver Pathology Fellowship, The Ohio State University Wexner Medical Center, Columbus, Ohio; Anatomic and Clinical Pathology Residency, PGY2; PGY4, The Ohio State University Wexner Medical Center; Anatomic and Clinical Pathology Residency, PGY1, Berkshire Medical Center, Pittsfield, Massachusetts
Board certification: AP/CP
Research interests: Hepatopancreaticobiliary Pathology; Colorectal Cancer; Lynch Syndrome; Digital Pathology
Papers written: 40

I have co-authored four book chapters in gastrointestinal and pancreas pathology. I am an author for PathologyOutlines.com, and I have given multiple invited presentations at international, national and regional levels. My interests and expertise are focused on colorectal cancer pathology and biomarkers, hepatobiliary pathology and liver pathology.

Iouri Ivanov, MD, PhD
Assistant Professor
Subspecialties:
- Gynecologic
- Head and Neck
- Thoracic

MD, Vitebsk State Medical University, Vitebsk, Belarus
Residency and Fellowship: University of Illinois at Chicago; Roswell Park Cancer Institute, Buffalo, New York - Oncologic Surgical Pathology
Board certification: AP/CP
Research interests: Gynecologic, Autopsy
Papers written: 25

I am an assistant professor-clinical and division director of Gynecologic Pathology in the Anatomic Pathology Branch. I earned my MD at Vitebsk State Medical School in Vitebsk, Belarus. I completed an internship at the Vitebsk Regional Teaching Hospital followed by a research fellowship at Vitebsk State Medical School. I went on to earn my PhD from the Scientific Research Institute of Oncology and Medical Radiology in Minsk, Belarus. I then completed my residency in anatomic and clinical pathology at the University of Illinois at Chicago College of Medicine. Following my residency, I completed an oncologic surgical pathology fellowship at the Roswell Park Cancer Institute in Buffalo, New York.

Rulong Shen, MD
Associate Professor
Subspecialties:
- Cytopathology
- Gynecologic

MD, Zhejiang Medical College, Hangzhou, China
Residency and Fellowship: Cytopathology Fellow, Detroit Medical Center, Wayne State University, Detroit, Michigan; Resident, AP/CP, Medical College of Ohio, Toledo, Ohio; Surgical Pathology Fellow, Nanjing Medical University, Department of Pathology, Nanjing, China; Resident, Department of Pathology, Zhejiang Medical College
Board certification: AP/CP, Cytopathology
Papers written: 107

I am an associate professor-clinical and director of the Cytology Division, Anatomic Pathology Branch. I earned my MD from Zhejiang Medical College in China. I completed a residency in anatomic and clinical pathology at the University of Cincinnati Medical Center in Cincinnati, Ohio, followed by a residency in pathology at the Medical College of Ohio in Toledo. I went on to complete a fellowship in cytopathology at Detroit Medical Center, Wayne State University. I am board certified in anatomic pathology, clinical pathology and cytopathology.
Gynecologic (continued)

Johanna Savage, MD
Assistant Professor
Subspecialties:
- Frozen Section
- Gynecologic

I received my MD from the University of Iowa Carver College of Medicine and completed a residency in anatomic and clinical pathology, as well as a surgical pathology fellowship, at the University of Iowa Hospitals and Clinics. I went on to complete a two-year fellowship in gynecologic pathology at The Johns Hopkins Hospital in Baltimore, Maryland. I am board certified by the American Board of Pathology and am a fellow of the College of American Pathologists and the American Society of Clinical Pathology.

Abberly Lott Limbaugh, MD
Assistant Professor
Subspecialties:
- Cytopathology
- Head and Neck

I am a fellowship trained, board certified head and neck pathologist and cytopathologist. I have expertise in diagnosing both benign and malignant neoplasms of the head and neck. I also have board certified expertise in gynecologic, non-gynecologic and fine needle aspiration cytology.

Paul E. Wakely, Jr., MD
Professor
Subspecialties:
- Bone and Soft Tissue
- Cytopathology
- Head and Neck

I am a board certified surgical pathologist and cytopathologist specializing in head and neck surgical pathology as well as soft tissue/bone pathology and FNA cytopathology. I have been in practice since 1983 and have been a tenured professor in the Department of Pathology at The Ohio State University Wexner Medical Center for the past 22 years. I have lectured at multiple national and international courses in pathology with regard to cytopathology and surgical pathology of the thyroid, salivary gland and other regions of the head and neck as well as lymph node and soft tissue cytopathology.

O. Hans Iwenofu, MD
Associate Professor
Subspecialties:
- Bone and Soft Tissue
- Head and Neck

I am an associate professor in the Anatomic Pathology Branch and a faculty member of the Division of Bone and Soft Tissue. I earned my MD at the College of Medicine, University of Nigeria in Enugu, Nigeria. I started my residency at the University College Hospital Ibadan, Nigeria, before coming to the United States, where I completed my residency training in anatomic and clinical pathology at the University of Oklahoma Health Sciences Center in Oklahoma City. I went on to complete a fellowship in oncologic surgical pathology at Roswell Park Cancer Institute in Buffalo, New York, followed by a fellowship in soft tissue/bone pathology at the University of Pennsylvania in Philadelphia.
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
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<th>Institution</th>
<th>Board Certification</th>
<th>Research Interests</th>
<th>Papers Written</th>
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<tbody>
<tr>
<td>Lawrence DeRenne, MD</td>
<td>Assistant Professor</td>
<td>Frozen Section, Genitourinary, Head and Neck</td>
<td>MD, Indiana University, School of Medicine, Indianapolis, Indiana; Residency and Fellowship: AP/CP Residency, University of California Davis, Sacramento Medical Center, Sacramento, California; Research Fellowship in Cardiovascular Pathology at the Mayo Graduate School of Medicine in Rochester, Minnesota; Surgical Pathology Fellowship, The Ohio State University, Columbus, Ohio</td>
<td>AP/CP</td>
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<tr>
<td>Lynn Schoenfield, MD</td>
<td>Associate Professor</td>
<td>Gastrointestinal, Head and Neck, Neuropathology</td>
<td>MD, University of Toledo Medical School, Toledo, Ohio; Residency and Fellowship: Resident, Anatomic and Clinical Pathology, Mt. Sinai Medical Center, Cleveland, Ohio; Resident, Pediatrics, University of Minnesota, Minneapolis, Minnesota; Resident, Anatomic and Clinical Pathology Residency, Hennepin County Medical Center, Minneapolis, Minnesota</td>
<td>AP/CP</td>
<td>Uveal Melanoma</td>
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<td>Iouri Ivanov, MD, PhD</td>
<td>Assistant Professor</td>
<td>Gynecologic, Head and Neck, Thoracic</td>
<td>MD, Vitebsk State Medical University, Vitebsk, Belarus; Residency and Fellowship: University of Illinois at Chicago; Roswell Park Cancer Institute, Buffalo, New York - Oncologic Surgical Pathology</td>
<td>AP/CP</td>
<td>Gynecologic, Autopsy</td>
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<td>Martha Yearsley, MD</td>
<td>Associate Professor</td>
<td>Gastrointestinal, Liver</td>
<td>MD, Facultad de Medicina Universidad de Cartagena, Cartagena, Colombia; Residency and Fellowship: Gastrointestinal, Hepatic and Pancreatobiliary Pathology Fellowship, The Cleveland Clinic Foundation, Cleveland, Ohio; AP/CP Residency, The Ohio State University Wexner Medical Center, Columbus, Ohio; Surgical Pathology Fellowship, Fundacion Santa Fe de Bogota, Santa Fe de Bogota DC, Colombia; AP Residency, Instituto Nacional de Cancerologia de Colombia, Santa Fe de Bogota DC, Colombia</td>
<td>AP/CP</td>
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Liver (continued)

Wendy Frankel, MD
Professor, Department Chair
Subspecialties:
• Gastrointestinal
• Liver

MD, University of Michigan Medical School, Ann Arbor, Michigan
Residency and Fellowship: Surgical Pathology Fellowship, University of California San Francisco; AP/CP Residency, University of California San Diego; Residency and Research Fellow, Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania
Board certification: AP/CP
Research interests: GI, Liver
Papers written: > 220

I am a distinguished professor and chair of the Department of Pathology at The Ohio State University in Columbus, Ohio, where I hold the Ralph W. and Helen Kurtz Endowed Chair in Pathology. I also serve as director of the GI/Liver Pathology Fellowship. I graduated from medical school at the University of Michigan in 1988 and trained in surgery at the Hospital of the University of Pennsylvania from 1988-93. I then trained in anatomic and clinical pathology at the University of California at San Diego and did my surgical pathology fellowship at UC San Francisco from 1993-97. I have been a faculty member at Ohio State since 1997.

Wei Chen, MD, PhD
Assistant Professor
Subspecialties:
• Gastrointestinal
• Liver

MD, Beijing Medical University, Beijing, China
PhD, Oregon State University, Corvallis, Oregon
Residency and Fellowship: GI/Liver Pathology Fellowship, The Ohio State University Wexner Medical Center, Columbus, Ohio; Anatomic and Clinical Pathology Residency, PGY2-PGY4, The Ohio State University Wexner Medical Center; Anatomic and Clinical Pathology Residency, PGY1, Berkshire Medical Center, Pittsfield, Massachusetts
Board certification: AP/CP
Research interests: Hepatopancreaticobiliary Pathology; Colorectal Cancer; Lynch Syndrome; Digital Pathology
Papers written: 40

I have co-authored four book chapters in gastrointestinal and pancreas pathology. I am an author for PathologyOutlines.com, and I have given multiple invited presentations at international, national and regional levels. My interests and expertise are focused on colorectal cancer pathology and biomarkers, pancreaticobiliary pathology and liver pathology.

Renal and Transplant

Tibor Nadasdy, MD, PhD
Professor
Subspecialties:
• Renal

MD, Medical University, Szeged, Hungary
Residency and Fellowship: Anatomic and Surgical Pathology, Department of Pathology, University of Medicine, Szeged, Hungary
Board certification: AP
Research interests: Pathology of Renal Perenchymal Diseases and Organ Transplantation
Papers written: 171 papers, 27 book chapters, 5 edited textbooks

I am a professor and director of the Renal Pathology Division in the Anatomic Pathology Branch. I earned my MD from the Medical University Szeged in Hungary and then completed a residency in anatomic and surgical pathology in the Department of Pathology, University of Medicine, in Szeged, Hungary. I defended my PhD thesis, “Pathomorphology of Renal Transplant Rejection,” in Budapest, Hungary, in 1989. I was a Paul Kimmelstiel-Conrad Pirani Fellow in Renal Pathology, Department of Pathology, University of Oklahoma. I am board certified in Anatomic Pathology.

Anjali Satoskar, MD
Professor
Subspecialties:
• Renal
• Thoracic

MD, University of Pune, India
Residency and Fellowship: Anatomic and Clinical Pathology; Renal and Transplant Pathology, The Ohio State University Wexner Medical Center, Columbus, Ohio
Board certification: AP
Research interests: Renal Pathology, Staphylococcus Infection-Associated Glomerulonephritis
Papers written: 80

I have been a full-time academic renal pathologist for the past 15 years at The Ohio State University, Columbus, Ohio. I did a two-year fellowship under the mentorship of Dr. Tibor Nadasdy, with an excellent well-rounded training in all aspects of the practice, including biopsy examination and correlation with the clinical history, effective communication with the nephrologists and successfully managing laboratory personnel. We are one of the largest renal labs in the country with over 1,800 biopsies coming in per year from within and outside the United States. Learning from this vast material was very enriching. In my lab, we have been performing immunofluorescence as well as electron microscopy for all these years. We have highly trained and experienced technologists devoted to the renal lab, and we offer fast turnaround and service on the weekends and long holidays. Preliminary reports are made available same day for urgent cases. Clinico-pathologic conferences are done on a regular basis to discuss management issues and newer therapies. Having published extensively, done teaching courses and case presentations at major pathology and nephrology conferences, I am well-known in the field, nationally and internationally.
Renal and Transplant (continued)

Sergey Brodsky, MD, PhD
Associate Professor

Subspecialties:
- Renal

MD, PhD. North Ossetian State Medical Academy, Russia
Residency and Fellowship: Residency, Anatomic Pathology, New York Medical College, Valhalla, New York; Fellowship, Renal Pathology, The Ohio State University, Columbus, Ohio
Board certification: AP
Research interests: Renal Pathology, Endothelial Cell Dysfunction, Vascular Biology
Papers written: 123

I have over 12 years of experience in renal pathology and over 25 years of experience in renal physiology and vascular biology. I have authored or co-authored more than 95 peer-reviewed publications and several book chapters.

Neuropathology

José Javier Otero, MD, PhD
Associate Professor and Director of Neuropathology

Subspecialties:
- Neuropathology

MD, Northwestern University, Evanston, Illinois
PhD, Northwestern University
Residency and Fellowship: Anatomic Pathology, University of California at San Francisco (UCSF), San Francisco, California; Neuropathology, UCSF, San Francisco, California
Board certification: AP, Neuropathology
Research interests: Medical Decision Making, Diagnostics, Mechanisms of Disease
Papers written: 45

My neuropathology laboratory team seeks to understand the mechanisms of diseases affecting the central and peripheral nervous systems. My particular focus is on the understanding of developmental and neoplastic disorders of the central nervous system (CNS). Our team has extensive expertise in all aspects of neuropathology, including neuropathologists focusing on neuropathology, neuromuscular pathology, ophthalmic pathology and neuro-autopsy diagnostics. Due to our outreach efforts, we are capable of carrying many tests in-house required for modern surgical neuropathology diagnostics. We are also available to provide remote teleneuropathology consultation of intraoperative consultations.

Catherine Czeisler, PhD
Assistant Professor

Subspecialties:
- Neuropathology

PhD, Northwestern University Feinberg School of Medicine, Chicago, Illinois
Research interests: See below

My laboratory researches the mechanisms by which astrocytes regulate brain function during physiological and pathological conditions. Astrocytes outnumber neurons in the brain. Nevertheless, our classic understanding of neural circuits focuses on the neuronal component to these networks. New insights into the mechanistic underpinnings regulating synaptogenesis, synaptic pruning, inflammation, learning and axonal degeneration have shown a significant astrocytic contribution thus challenging this neuronal-centric view to circuit function. My specific areas of research are understanding the role of reactive astrocytes in neuroinflammation and the developmental role of astrocytes in forming autonomic neural circuits. In addition, my laboratory has ongoing collaborations with the College of Engineering to develop next-generation polymer-based sensors to study subthreshold neural activity.

Peter Kobalka, MD
Assistant Professor

Subspecialties:
- Cytopathology
- Frozen Section
- Neuropathology

MD, University of Toledo College of Medicine, Toledo, Ohio
Residency and Fellowship: Residency, University of Toledo Medical Center; Residency and Neuropathology Fellowship, University of California San Diego Medical Center, San Diego, California; Cytopathology Fellowship, Cleveland Clinic Foundation, Cleveland, Ohio
Board certification: AP, Neuropathology, Cytopathology
Research interests: Neuropathology Tumors, Infectious Diseases, Digital Pathology
Papers written: In process

My expertise covers the fields of neuropathology and cytopathology, with an emphasis on histopathology of tumors and infectious disease processes. My expertise on cytolgy is especially useful for covering the intraoperative frozen service and for interpreting unusual metastatic and infectious lesions within the brain. My involvement in several general anatomic pathology services makes me a well-rounded pathologist, able to provide comprehensive coverage of the unusual and rare pathology cases.
I have practiced a wide range of subspecialties in anatomic pathology, and I have been the exclusive ocular pathologist at two large academic institutions for the last 15 years, including The Ohio State Wexner Medical Center, where I presently practice. My experience includes lesions, both neoplastic and non-neoplastic, of the eyelid, conjunctiva, cornea, internal structures of the eye, lacrimal gland and orbit. I have contributed to the ophthalmic literature in collaboration with ophthalmologists. My special interest is in uveal melanoma.

I am an assistant professor-clinical in anatomic pathology at The Ohio State University and Nationwide Children’s Hospital, and I am board certified in anatomic pathology and neuropathology. I specialize in neuropathology and autopsy pathology. Ohio State University board certified neuropathologists provide efficient subspecialty consultation for adult and pediatric surgical neuropathology and brain autopsy cases. Resources include an extensive immunohistochemical stain panel and molecular testing for IDH1/IDH2, BRAF, MGMT promoter methylation, 1p/19q co-deletion, EGFR amplification and additional clinically relevant testing for gliomas. Challenging cases are reviewed daily by our group, and results are communicated personally to the sending pathologist.

As a thoracic pathologist, I have interests in interstitial lung disease (ILD), lung transplant pathology, diagnosis of non-small cell lung cancer (NSCLC), small cell lung cancer (SCLC) and carcinoid tumors. My research interests involve studies of protein expression in lung cancer and patterns of acute lung injury.

I have been a full-time academic renal pathologist for the past 15 years at The Ohio State University, Columbus, Ohio. I did a two-year fellowship under the mentorship of Dr. Tibor Nadasdy, with an excellent well-rounded training in all aspects of the practice, including biopsy examination and correlation with the clinical history, effective communication with the nephrologists and successfully managing laboratory personnel. We are one of the largest renal labs in the country with over 1,800 biopsies coming in per year from within and outside the United States. Learning from this vast material was very enriching. In my lab, we have been performing immunofluorescence as well as electron microscopy for all these years. We have highly trained and experienced technologists devoted to the renal lab, and we offer fast turnaround and service on the weekends and long holidays. Preliminary reports are made available same day for urgent cases. Clinico-pathologic conferences are done on a regular basis to discuss management issues and newer therapies. Having published extensively, done teaching courses and case presentations at major pathology and nephrology conferences, I am well-known in the field, nationally and internationally.
Iouri Ivanov, MD, PhD
Associate Professor

Subspecialties:
• Gynecologic
• Head and Neck
• Thoracic

I am an assistant professor-clinical and division director of Gynecologic Pathology in the Anatomic Pathology Branch. I earned my MD at Vitebsk State Medical School in Vitebsk, Belarus. I completed an internship at the Vitebsk Regional Teaching Hospital followed by a research fellowship at Vitebsk State Medical School. I went on to earn my PhD from the Scientific Research Institute of Oncology and Medical Radiology in Minsk, Belarus. I then completed my residency in anatomic and clinical pathology at the University of Illinois at Chicago College of Medicine. Following my residency, I completed an oncologic surgical pathology fellowship at the Roswell Park Cancer Institute in Buffalo, New York.

Hematopathology

Arwa Shana’ah, MD
Associate Professor

Subspecialties:
• Hematopathology

I am an associate professor-clinical in the Clinical Pathology Branch. I am also the co-director of the Residency/Fellowship Program in the Department of Pathology. I earned my MD from the University of Jordan in Amman, Jordan. I completed a one-year residency in the Pathology Department at Jordan University Hospital in Amman, followed by a two-year residency in the Pathology Department at Al-Basheer Hospital. I came to The Ohio State University Department of Pathology to complete a combined residency in anatomic and clinical pathology followed by a fellowship in surgical pathology and then a fellowship in transfusion medicine. I am board certified in anatomic and clinical pathology, and I also have a special qualification in transfusion medicine by the American Board of Pathology.

Gerard Lozanski, MD
Professor

Subspecialties:
• Hematopathology

I am a professor in the Clinical Pathology Branch. I am also the director of the Clinical Flow Cytometry Laboratory at The Ohio State University Wexner Medical Center. I earned my MD from the Karol Marcinkowski Medical Academy in Poznan, Poland. I completed my residency in anatomic and clinical pathology at the Akron City Hospital in Akron, Ohio, followed by a fellowship in hematopathology at the Cleveland Clinic Foundation. I am board certified in anatomic and clinical pathology and hematopathology.

Daniel Jones, MD, PhD
Professor and Vice-Chair of Pathology

Subspecialties:
• Hematopathology

Diagnostic specialties include:
Differential diagnosis of T-cell neoplasms, inflammatory dermatoses, dendritic and histiocytic neoplasms, integration of complex tumor genomic analysis. My research centers on defining critical genomic features in the progression of colorectal cancer, leukemia and other malignancies.
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<tr>
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<tr>
<td>Nicholas Nowacki, MD</td>
<td>Assistant Professor</td>
<td>The Ohio State University College of Medicine, Columbus, Ohio</td>
<td>Hematopathology</td>
<td>Hematopathology and Benign Hematology</td>
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<tr>
<td>Aharon Freud, MD, PhD</td>
<td>Assistant Professor</td>
<td>The Ohio State University, Columbus, Ohio</td>
<td>Hematopathology</td>
<td>NK Cell Development, Innate Lymphoid Cells, NK Cell Neoplasms</td>
<td>57</td>
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<tr>
<td>Jayalakshmi Balakrishna, MD</td>
<td>Assistant Professor</td>
<td>Government TD Medical College, Alappuzha Kerala University, India</td>
<td>Hematopathology</td>
<td>Lymphoma, Diagnostic and Prognostic Methods; Hematological Neoplasia, Immune Microenvironment</td>
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I am an assistant professor on the clinical excellence pathway and director of hematology at The Ohio State University Department of Pathology. My practice and academic interests include leukemia, lymphoma, myelodysplastic syndrome and benign hematology.

In my clinical practice I routinely evaluate and diagnose the full spectrum of hematopathology cases, including those involving lymph nodes, bone marrow and extramedullary/non-nodal tissues involved by hematology malignancies. I am also proficient at flow cytometry, having gained clinical proficiency in this area and used this modality extensively in my basic and translational research endeavors to identify and characterize novel populations of human innate lymphoid cell developmental intermediates. Having had the great opportunity to work and train in a fellowship program with numerous consult cases (i.e., at Stanford University), and now having gained experience as a faculty attending physician on our busy hematopathology service at Ohio State, I welcome challenging cases from both community practice and academic settings that may benefit from evaluation in consultation.

I am a board certified pathologist (AP/CP) and hematopathologist. I have completed a two-year fellowship in hematopathology from NC/NIH and have been an assistant professor in the Department of Pathology at The Ohio State University for the past two years. My research is focused on developing diagnostic and prognostic markers for lymphoid neoplasia and virus-associated lymphoproliferative disorders. My diagnostic work at the Division of Hematopathology includes review and sign out of in-house and consult cases of bone marrow, lymph node and tissue biopsies with hematological and immune disorders, flow cytometry, peripheral blood, body fluid and BAL smears, hemoglobinopathy evaluations and coagulation/thrombosis workups.