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 (OSUCC – 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, call 1-614-293-5066 or 1-614-293-7706.

### CONSULT PHYSICIANS

#### Bone and Soft Tissue

<table>
<thead>
<tr>
<th>Name</th>
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<th>Board Certification</th>
<th>Research Interests</th>
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<th>Papers Written</th>
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<td>Bone and Soft Tissue, Breast, Gynecologic</td>
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<td>Head and Neck</td>
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Profile:

- 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 Well Cornell Medical College. I am board certified in anatomic and clinical pathology.

#### Breast

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Breast (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: University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania (UPMC); Breast/Oncoplastic Pathology Fellowship; UPMC.
Board certification: AP/CP, Breast Pathology.
Research interests: Breast Pathology, Gynecologic Pathology and Cytopathology.
Papers written: 39

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, ASG (American Society of Gynecologic Cytopathologists) Cytotechnologist Committee and Finance Committee, Digital Pathology Association (DPA) Education Committee, Chinese American Pathologist Association (CAPA) Cytopathology Subcommittees and Finance Committee.

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: 6

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.

Rongjin 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 critical 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.

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

MD: Xian Medical University, Xian, China.
PhD: Pierre and Marie Curie University, Paris, France.
Residency and Fellowship: Resident, 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: 30

I received a solid pathology residency training followed by comprehensive fellowship training 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.

Cytopathology

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

MD: The Ohio State University College of Medicine, Columbus, Ohio.
Residency and Fellowship: Breast 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 effort toward promoting the delivery of the highest quality and most efficient diagnostic services to our patients, referring pathologists and clinical colleagues.

Debra Zynger, MS, MD
Professor
Subspecialties:
• Breast
• Gynecological

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/CP.
Research interests: Gynecologic Pathology; Cytology; Head and Neck Pathology.
Papers written: 15

I am a professor and director of the Division of Genitourinary Pathology in the Department of Pathology at Ohio State. My areas of expertise are urologic pathology, breast pathology and surgical pathology medical billing. I have also published 90 journal articles and authored two urologic pathology textbooks. I am editor-in-chief for the journal Pathology Outlines. I represent Ohio as a delegate for the College of American Pathologists, serve on the Board of Governors for the Ohio Society of Pathologists and present numerous talks at national conferences.

Peter Kobalik, MD
Assistant Professor
Subspecialties:
• Cytopathology
• Frozen Section
• Neuropathology

MD: University of Toledo College of Medicine, Toledo, Ohio.
Residency and Fellowship: Resident, University of Toledo Medical Center; Resident and Neuropathology Fellowship, University of California San Diego Medical Center, San Diego, California; Cytopathology Fellowship, Cleveland Clinic Foundation, Cleveland, Ohio.
Board certification: AP, Neuropathology.
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 cytopathology is especially useful for covering the intraoperative frozen section and in 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.

Abberly Lott Limbaugh, MD
Assistant Professor
Subspecialties:
• Cytology
• Frozen Section
• Head and Neck

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

I am 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.
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, Newark Medical University, Department of Pathology, Newark, Ohio; Resident, Department of Pathology, Zhejiang Medical College.
Board certification: AP/CP, Cytopathology
Papers written: 107

Rongxin Ren, MD
Assistant Professor

Subspecialties:
- Gynecologic

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

Adrian Suarez, MD
Associate Professor

Subspecialties:
- Cytopathology
- Gynecologic

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

Lawrence DeRenne, MD
Assistant Professor

Subspecialties:
- Gynecologic

MD, University of Cincinnati College of Medicine, Cincinnati, Ohio
Residency and Fellowship: AP/CP, Dermatopathology
Board certification: AP/CP
Research interests: Gynecologic Malignancies
Papers written: > 200 peer-reviewed publications

Paul E. Wakely, Jr., MD
Professor

Subspecialties:
- Bone and Soft Tissue
- Cytopathology
- Head and Neck

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

Peter Kobalka, MD
Assistant Professor

Subspecialties:
- Cytopathology
- Neurology

MD, University of Toledo College of Medicine, Toledo, Ohio
Residency and Fellowship: University of Toledo Medical Center, Radiation and Neurology Fellowship, University of California San Diego Medical Center, San Diego, California
Board certification: AP, Nuclear Medicine, Cytopathology
Research interests: Neuroendocrine Tumors, Infections Diseases, Digital Pathology
Papers written: In process

Jose A. Plaza, MD
Professor

Subspecialties:
- 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 Inflammation/Infectious
Papers written: > 85 manuscripts and 4 dermatopathology textbooks

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 Dermatons, Cutaneous Lymphoma, Cutaneous Neoplasms, Skin Infections
Papers written: 50

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 referring physicians and their 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 seek 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.

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 fellowship 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.

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.

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; Surgical Pathology Fellowship, The Ohio State University Medical Center, Columbus, Ohio.

I am a board certified dermatopathologist with a special interest in cutaneous lymphoma and cutaneous lymphoid 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, mycosis fungoides, direct immunofluorescence, and both inpatient and outpatient settings. I have been an invited speaker and co-chair for the American Academy of Dermatology and American Society of Dermatopathology annual meetings for multiple years.

I am a board certified dermatologist and dermatopathologist with a special interest in cutaneous lymphoma and cutaneous lymphoid 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, mycosis fungoides, direct immunofluorescence, and both inpatient and outpatient settings. I have been an invited speaker and co-chair for the American Academy of Dermatology and American Society of Dermatopathology annual meetings for multiple years.
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 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.

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.

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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 Ohio State University 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.

I received a solid pathology residency training followed by comprehensive fellowship training 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.

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I have co-authored several 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 biorepositories, parathyroid pathology and liver pathology.

I am the director of the Department of Pathology at the University of Michigan Medical School. I received my MD from St. Louis University School of Medicine, St. Louis, Missouri; Anatomic and Clinical Pathology Residency, Saint Louis University and Surgical Pathology Fellowship, Washington University School of Medicine, St. Louis, Missouri. I am an associate professor in the Department of Pathology at the University of Michigan Medical School. I am board certified in anatomic and clinical pathology with expertise in gastrointestinal pathology, and I have over 15 years of experience in that field. I completed a surgical pathology fellowship at The Johns Hopkins Medical Institution after graduating from the Pathology Residency Program at the University of TexasSouthwestern Medical Center. I have held previous academic appointments at The Johns Hopkins University School of Medicine and the University of Texas Southwestern Medical School.
I have practiced a wide range of subspecialties in anatomic pathology, and 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 currently practice. My experience includes lesions, both neoplastic and non-neoplastic, of the eye, conjunctiva, cornea, internal structures of the eye, lacrimal gland and orbit. I have contributed to the epistemological literature in collaboration with opthalmologists. My special interest is in visual melanoma.

I received my MD from Zhengzhou University School of Medicine in China, did my AP/CP residency in Icahn School of Medicine at Mount Sinai in New York City and became certified as a board-certified anatomic and surgical pathologist. From 1998 to 2008, I was the Chief of the Division 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.

I am a professor of pathology, director of anatomic 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 gastrointestinal pathology (GI), and I was previously a member of the GI Center of Excellence at the University of Pittsburgh. My pathology practice is focused on developing immunohistochemical markers for the diagnosis of GI cancers, including prostate cancer, biliary mimickers of prostate cancer, and correlation of histopathological features of renal cell carcinoma with cytogenetic and molecular changes. I have over 15 years of experience in diagnosis of challenging GI tumors and have addressed multiple consults in these tumors.

I am a board certified anatomic and surgical pathologist, fellowship trained and with expertise in gastrointestinal, liver and pancreato-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 direct The Division of Gastrointestinal, Liver and Pancreatobiliary Pathology in the Department of Pathology at Ohio State, where I directed the Division of Liver Pathology for almost a decade. Participated 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.

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 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 serving as section editor for the journal *Diagnostic Pathology*. Following my residency, I completed an oncologic surgical pathology fellowship at the Roswell Park Cancer Institute in Buffalo, New York. I am an associate professor-clinical and division director of Gynecologic Pathology in the Anatomic Pathology Branch. I earned my MD from Zhejiang Medical College in China. 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.

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.

I was certified in hematopathology, molecular pathology, and cytopathology at the University of Rochester, Rochester, New York. I completed a fellowship in cytopathology at Detroit Medical Center, Wayne State University. I am board certified in anatomic pathology, clinical pathology, and cytopathology.
Head and Neck

### Lawrence DeRenne, MD
**Assistant Professor**

**Subspecialties:**
- **Gynecologic**
- **Head and Neck**
- **Thyroid**

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 residency 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.

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### O. Hans Iwenofu, MD
**Associate Professor**

**Subspecialties:**
- **Gynecologic**
- **Head and Neck**

I am an assistant professor-clinical and division director of Gynecologic Pathology in the Anatomic Pathology Branch. I received my MD at Wayne State University School of Medicine in Detroit. I completed my residency at Michigan State University in East Lansing, and my fellowship at the University of Chicago. 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.

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### Abberly Lott Limbaugh, MD
**Assistant Professor**

**Subspecialties:**
- **Cytopathology**
- **Froen Section**
- **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.

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### Paul E. Wakely, Jr., MD
**Professor**

**Subspecialties:**
- **Bone and Soft Tissue**
- **Neuropathology**

I am a board certified surgical pathologist and cytopathologist specializing in head and neck surgical pathology as well as soft tissue/bone pathology and PAI 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.

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### Lynn Schoenfield, MD
**Associate Professor**

**Subspecialties:**
- **Gastrointestinal**
- **Liver and Pancreaticobiliary**

I have practiced a wide range of subspecialties in anatomic pathology, and I have been the exclusive ocular pathologist of 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 eye, 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 visual melanoma.

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### Wendy Frankel, MD
**Professor, Department Chair**

**Subspecialties:**
- **Gastrointestinal**
- **Liver and Pancreaticobiliary**

I am a distinguished professor and chair of the Department of Pathology at The Ohio State University in Columbus, Ohio. I hold the Raj D. 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 UCSF San Francisco from 1993-97. I have been a faculty member at Ohio State since 1997.
Liver and Pancreaticobiliary (continued)

Giovanni Lujan, MD
Associate Professor
Subspecialties:
- Gastrointestinal
- Liver and Pancreaticobiliary

MD: University of El Salvador, School of Medicine, San Salvador, El Salvador
Residency and Fellowship: University of Alabama at Birmingham, Houston, Texas
Board certification: AP/CP
Papers written: 7

I am an associate professor in the Department of Pathology and the associate director of Digital and Computational Pathology. I am board certified in anatomic and clinical pathology with expertise in gastrointestinal pathology, and I have over 15 years of experience in that field. I completed a surgical pathology fellowship at the Johns Hopkins Hospital after graduating from the Pathology Residency Program at the University of Texas Southwestern Medical Center. I have held previous academic appointments at The Johns Hopkins University School of Medicine and the University of Texas Southwestern Medical School.

Shaoqi Sun, MD
Professor
Subspecialties:
- Gastrointestinal
- Liver and Pancreaticobiliary

MD: Hsuesh University, China
Residency and Fellowship: AP/CP, Mount Sinai School of Medicine, New York, New York
Board certification: AP/CP
Papers written: 32

I received my MD from Zhengzhou University School of Medicine in China, did my AP/CP residency in Iloilo School of Medicine at Mount Sinai in New York City and became a gastrointestinal GI pathologist after learning GI pathology from a knowledgeable and inspiring mentor, Roger Haggitt, MD. As a practicing GI pathologist for more than 20 years, I approach my daily work as a process of solving medical puzzles with support from my clinical team and colleagues. It is a rewarding and exciting career with tremendous responsibility, but often encounter questions with no answers and disease with no treatment. There are so many unknowns in biology and medicine that are waiting to be deciphered. Working in an academic medical environment allows me to be a part of making discoveries. I love engaging with students, residents, fellows, junior faculty and other trainees in this journey. It is my belief and goal that by working together we can advance the field of medicine at a much faster pace to deliver better care to patients. I am also increasingly interested in machine/deep learning in digital pathology. I strive to make an impact in both clinical medicine and research discovery.

Martha Yearsley, MD
Associate Professor
Subspecialties:
- Gastrointestinal
- Liver and Pancreaticobiliary

MD: Facultad de Medicina Universidad de Cartagena, Cartagena, Colombia
Residency and Fellowship: Gastrointestinal, Hepatic and Pancreaticobiliary 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, Bogota, Colombia, AP/CP Residency, Facultad Nacional de Cancerologia de Colombia, Santa Fe de Bogota DC, Colombia
Board certification: AP/CP
Papers written: 57

I am a board certified anatomic and surgical pathologist, fellowship trained and with expertise in gastrointestinal, liver and pancreaticobiliary 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 direct the Division of Gastrointestinal, Liver and Pancreaticobiliary Pathology in the Department of Pathology at Ohio State, where I directed the Division 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.

Renal and Transplant

Sergey Brodsky, MD PhD
Professor
Subspecialties:
- Renal

MD: North Caucasus State Medical Academy, Russia
Residency and Fellowship: 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 20 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.

Tiber 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/Percutaneous Diseases and Organ Transplantation
Papers written: 79, 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 1988. I was a Paul Kernfonds-Conrad Frese Fellow in Renal Pathology, Department of Pathology, University of Oklahoma. I am board certified in Anatomic Pathology.

Anjali Satoskar, MD
Professor
Subspecialties:
- Renal

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: 60

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. Tiber 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 our 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 turn-around 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.
### Neuropathology

**Peter Kobalka, MD**  
**Assistant Professor**  
**Subspecialties:**  
- Nephropathology  
- Gastrointestinal  
- Thoracic  
- Immunopathology  
- Head and Neck  
- Dermatopathology  
- Renal Pathology

My expertise covers the fields of neuropathology and cytopathology, with an emphasis on histopathology of tumors and infectious disease processes. My expertise in these fields is especially useful for managing the inpatient service for neurosurgical patients, interpreting complex brain tumors, and managing patients who have never had biopsies or biopsies performed in the past.

**José Javier Otero, MD, PhD**  
**Associate Professor and Director of Neuropathology**  
**Subspecialties:**  
- Neurotology  
- Thoracic  
- Gastrointestinal  
- Urological  
- Transplantation  
- Immunological  
- Renal Pathology

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 neurotology focusing on neuropathology, neuromuscular pathology, ophthalmic pathology and neuro-oncology diagnostics. Due to our vast expertise, we are capable of carrying many tests in-house required for modern surgical neuropathology diagnostics. We are also able to provide remote telepathology consultation of intraoperative consultations.

**Lynn Schoenfield, MD**  
**Associate Professor**  
**Subspecialties:**  
- Gastrointestinal  
- Head and Neck  
- Neurology  
- Clinical Immunology

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. My expertise covers the fields of neuropathology and cytopathology, with an emphasis on histopathology of tumors and infectious disease processes. My expertise in these fields is especially useful for managing the inpatient service for neurosurgical patients, interpreting complex brain tumors, and managing patients who have never had biopsies or biopsies performed in the past.

**Diana Thomas, MD, PhD**  
**Assistant Professor**  
**Subspecialties:**  
- Neuropathology

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 excellent 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, GNAQ, Pmel-19, SALL4, and FLNA. Other testing includes additional clinically relevant testing for gliomas. Challenges cases are reviewed daily by our team, and results are communicated personally to the sending pathologist.

### Thoracic

**Iouri Ivanov, MD, PhD**  
**Associate Professor**  
**Subspecialties:**  
- Thoracic  
- Renal  
- Head and Neck  
- Endocrine  
- Gynecologic  
- Gastrointestinal  
- Pulmonary  
- Thoracic  
- Pathology  
- Immunology  
- Pulmonary Pathology

I have been a full-time academic renal pathologist for the past 15 years at The Ohio State University, Columbus, Ohio. I hold a two-year fellowship under the mentorship of Dr. Tiber Nacevsky, 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 immunochemistry 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. Clinical 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.

**Anjali Satoskar, MD**  
**Professor**  
**Subspecialties:**  
- Thoracic  
- Transplantation  
- Gastrointestinal  
- Pulmonary  
- Renal  
- Head and Neck  
- Endocrine  
- Gynecologic  
- Pathology  
- Immunology

I have been a full-time academic renal pathologist for the past 15 years at The Ohio State University, Columbus, Ohio. I hold a two-year fellowship under the mentorship of Dr. Tiber Nacevsky, 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 immunochemistry 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. Clinical 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.

**Konstantin Shilo, MD**  
**Associate Professor**  
**Subspecialties:**  
- Thoracic  
- Pulmonary  
- Gastrointestinal  
- Pulmonary Pathology  
- Armed Forces Institute of Pathology (AFIP), Washington, DC; MetroHealth Medical Center, Cleveland, Ohio

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.

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**CONSULT PHYSICIANS**

**I. Neuropathology**

- **Peter Kobalka, MD**  
  - Assistant Professor  
  - Subspecialties:  
    - Cytopathology  
    - Head and Neck  
    - Nephropathology  
    - Gastrointestinal  
    - Thoracic  
    - Immunopathology  
    - Dermatopathology  
    - Renal Pathology

- **José Javier Otero, MD, PhD**  
  - Associate Professor, Director of Neuropathology  
  - Subspecialties:  
    - Neurotology  
    - Thoracic  
    - Gastrointestinal  
    - Urological  
    - Transplantation  
    - Immunological  
    - Renal Pathology

- **Lynn Schoenfield, MD**  
  - Associate Professor  
  - Subspecialties:  
    - Gastrointestinal  
    - Head and Neck  
    - Neurology  
    - Clinical Immunology

- **Diana Thomas, MD, PhD**  
  - Assistant Professor  
  - Subspecialties:  
    - Neuropathology

**II. Thoracic**

- **Iouri Ivanov, MD, PhD**  
  - Associate Professor  
  - Subspecialties:  
    - Thoracic  
    - Renal  
    - Head and Neck  
    - Endocrine  
    - Gynecologic  
    - Gastrointestinal  
    - Pulmonary  
    - Thoracic  
    - Pathology  
    - Immunology  
    - Pulmonary Pathology

- **Anjali Satoskar, MD**  
  - Professor  
  - Subspecialties:  
    - Thoracic  
    - Transplantation  
    - Gastrointestinal  
    - Pulmonary  
    - Renal  
    - Head and Neck  
    - Endocrine  
    - Gynecologic  
    - Pathology  
    - Immunology

- **Konstantin Shilo, MD**  
  - Associate Professor  
  - Subspecialties:  
    - Thoracic  
    - Pulmonary  
    - Gastrointestinal  
    - Pulmonary Pathology  
    - Armed Forces Institute of Pathology (AFIP), Washington, DC; MetroHealth Medical Center, Cleveland, Ohio
CONSULT PHYSICIANS

Hematopathology

Jayalakshmi Balakrishna, MD
Assistant Professor
Subspecialties: Hematopathology
MD, Government TD Medical College, Allahabad, India
Residency and Fellowship: Fellowship, Hematopathology, National Cancer Institute/NIH, Bethesda, Maryland
Research interests: 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

Aharon Freud, MD, PhD
Associate Professor
Subspecialties: Hematopathology
MD, PhD, The Ohio State University, Columbus, Ohio
Residency and Fellowship: Stanford University, California
Board certification: AP, CP
Research interests: NK Cell Development, Innate Lymphoid Cells, NK Cell Neoplasms

Daniel Jones, MD, PhD
Professor and Vice-Chair of Pathology
Subspecialties: Hematopathology
MD, Case Western Reserve University, Cleveland, Ohio
Residency and Fellowship: Harvard Medical School/ Brigham and Women’s Hospital, Boston, Massachusetts
Board certification: AP, CP
Research interests: B Cell Receptor Signaling, Predictive and Prognostic Markers for Response to Targeted Therapy in CLL, AML, and Solid Tumors

Gerard Lozanski, MD
Professor
Subspecialties: Hematopathology
MD, Karol Marcinkowski Medical Academy in Poznan, Poland
Residency and Fellowship: Fellow, Hematopathology, The Cleveland Clinic Foundation
Board certification: AP, CP

Hematopathology (continued)

Nicholas Nowacki, MD
Assistant Professor
Subspecialties: Hematopathology
MD, The Ohio State University College of Medicine, Columbus, Ohio
Residency and Fellowship: Fellowship, Hematopathology, The Ohio State University Wexner Medical Center, Columbus, Ohio
Research interests: Hematopathology and Benign Hematology

Arwa Shana’a, MD
Associate Professor
Subspecialties: Hematopathology
MD, University of Jordan, Amman, Jordan
Residency and Fellowship: Fellow, Transfusion Medicine, The Ohio State University Wexner Medical Center, Columbus, Ohio
Board certification: AP, CP
Research interests: Leukemia, Lymphoma, Biomarkers in Cancer, Targeted Therapies

Weiqiang Zhao, MD, PhD
Professor
Subspecialties: Hematopathology
MD, Harbin Medical College, Changsha, China
PhD, Molecular Biology, Tulane University, New Orleans, Louisiana
Residency and Fellowship: Molecular Genetics Pathology (Fellowship), MD Anderson Cancer Center, Houston, Texas
Research interests: Leukemia, Lymphoma, Biomarkers in Cancer, Targeted Therapies

I am a pathologist with expertise in diagnosing tumors of the hematopoietic and lymphoid tissues, such as chronic/acute lymphocytic leukemias, Hodgkin lymphoma, non- Hodgkin lymphomas, acute and chronic myeloid leukemias (AML and CML), myeloproliferative syndromes (MDS), myelodysplastic neoplasms (MPN), bleeding disorders and oncologic genetics.

I am an associate professor-clinician in the Clinical Pathology Branch in the Department of Pathology at Ohio State. I also direct the department’s Division of Hematopathology and its Residency Fellowship Program. I trained at the University of Jordan in Amman, Jordan, and then came to Ohio State’s 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 have over 20 years of experience practicing hemopathology, including complex cases and consultations.

I am a board certified pathologist (AP/CP) and hematopathologist. I have completed a two year fellowship in hemopathology from NCI/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 nodes and tissue biopsies with hematological and immune disorders, flow cytometry, peripheral blood, body fluid and BAL smears, hemostasis assays and coagulation/bleeding workups.

In my current 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 hematologic 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 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 hemopathology at the Cleveland Clinic Foundation. I am board certified in anatomic and clinical pathology and hemopathology.

I am a hematopathologist and assistant professor 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 hematologic 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.

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