

Department of Pathology

We welcome Mount Auburn Hospital
Pathology as new members



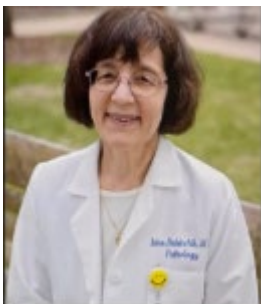
John Perry, MD

Dr. Perry has been on staff at Mount Auburn Hospital (MAH) since 2013 and is their department chair. He serves on the Cancer Committee and Multidisciplinary Pulmonary Nodule Committee and previously led and collaborated on Infection Control and Tumor Board groups. For over 10 years at MAH, he has also guided quality improvement of the interpretation and clinical utility of laboratory test results. He attended Boston University School of Medicine and completed his residency in Anatomical and Clinical Pathology and fellowship in Surgical Pathology at BIDMC.



Soumar Bouza, MD

Dr. Soumar (pronounced "Summer") Bouza started working at MAH shortly after she completed her Breast Pathology Fellowship at BIDMC in 2024. She attended Penn State College of Medicine and completed her residency at Yale New Haven Hospital.



Irina Dubinchik, MD

Dr. Dubinchik is a staff pathologist and Director of Cytopathology and has been at MAH since 2020. She completed her residency in Anatomical and Clinical Pathology and a fellowship in Cytopathology at Boston Medical Center.

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New Hires



Atsuchi Tanaka, MD, PhD

Dr. Tanaka completed his residency in Anatomical and Clinical Pathology and a fellowship in Surgical Pathology at the University of Tokyo. He also holds a PhD from the Pathology, Immunology, and Microbiology Department at the University of Tokyo. He is an expert in integrated proteogenomics and multiomics of cancer, NGS, and computational pathology.

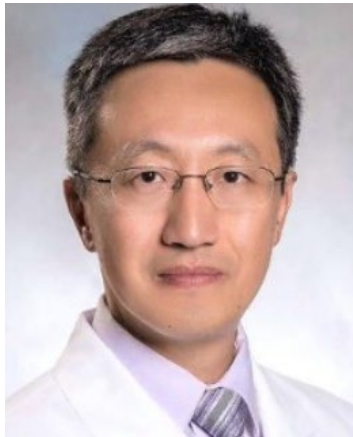
He joins the **BIDMC Pathology Molecular Diagnostics and Genomics** team. He will also continue his research on proteomic biomarkers and novel drug targets.

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Awards, Honors, and New Roles



We are pleased to announce that **Monika Vyas, MD**, has been appointed as the **Director of Digital Pathology**. With her expertise and leadership, Dr. Vyas will drive innovation in digital pathology, enhancing diagnostic accuracy and efficiency. Her commitment to advancing technology in pathology will play a crucial role in improving patient care and research initiatives.



We are excited to announce that **Sean Xu, MD, PhD**, has been appointed as the **Director of Molecular Hematopathology**. Dr. Xu brings extensive expertise in molecular diagnostics and hematopathology. His leadership will be instrumental in advancing precision medicine, enhancing molecular testing capabilities, and improving patient outcomes.

Please join us in congratulating Drs. Vyas and Xu on their new roles!

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Awards, Honors and New Roles



Ioannis Vlachos, PhD, received additional (competitive) \$1.3M of funding for the last 2 years of the award: U54 – Human Biolecular Atlas Project – Lymphatics Tissue Mapping Center.

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Events

Grand Rounds: Providing Formal Patient Consults Key to the Future



Donald Karcher, MD, FCAP, outgoing president of the College of American Pathologists (CAP), and professor and past chair of the Department of Pathology at the George Washington University Medical Center in Washington, DC., presented *Pathology: the future is now*, at the March 21 Grand Rounds, sponsored by the Department of Pathology. He spoke emphatically about pathology's future, especially about providing expertise to both other physicians and patients.

For too long, he noted, pathologists have been in the background, interacting primarily with other physicians as the “doctor’s doctor” on lab results and rarely visible to patients. He has devoted his time at CAP helping ensure pathologists remember that they are also the patient’s doctor. The demand for pathology services has only increased as pathologists are now on tumor boards and help interpret complex genomic data and other lab results. Some pathologists have already pioneered formal patient-pathologist consultation services, and the response from patients has been very positive.

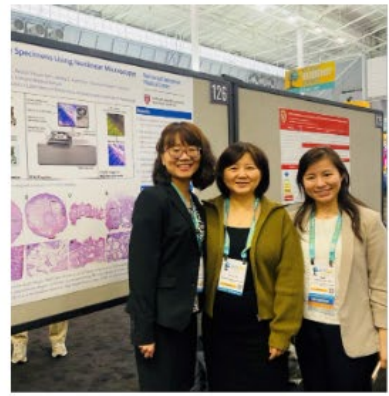
Providing consults to other physicians and patients is key to pathology’s future, something Michael Roehrl, MD, PhD, MBA, Chair of BIDMC Pathology, has been working toward at BIDMC. “As pathologists in the Department of Pathology, we must embrace our role as direct advocates for patients. Our expertise in Precision Diagnostics can profoundly impact their care, and lessening patient fear by providing more precise diagnoses quickly is not just an opportunity—it is a responsibility. Building formal pathways here at BIDMC for patient-pathologist consultations is an essential evolution of our department.”

After Grand Rounds, Donald Karcher, MD, FCAP, held a Q&A for faculty and addressed how to bill for patient consults, the impact of AI on healthcare and pathology and importance of developing it ethically, and FDA oversight of medical devices and testing.

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USCAP 2025

Here are the highlights from USCAP – United States and Canadian Academy of Pathology annual meeting, which was in Boston, March 22 -27. There was a strong showing of BIDMC faculty, fellows, and residents leading sessions and at the poster session.



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USCAP 2025



Beth Israel Deaconess
Medical Center



HARVARD MEDICAL SCHOOL
TEACHING HOSPITAL

Department of Pathology

USCAP Faculty and Trainee Presentations

Harvey Goldman Teaching Award presented by **Michael Roehrl, MD, PhD, MBA**, and **Laura Collins, MD**, to **Esther Oliva, MD**

Richard Haspel, MD; Phillip D. Michaels, MD (BWH): Resident's Workshop: Genomic Medicine for Pathologists

Paul VanderLaan, MD, PhD: Papanicolaou Society for Cytopathology: Ancillary Testing in Pulmonary Cytopathology

Sophia Bellegarde, MD; Emily Mejia, MD; Matthew Rosenbaum, MD: Evaluating the Discrepancy Between Pathology Resident Compensation and Local Cost of Living Across the United States

Ritika Bhat, MD; Monika Vyas, MD: Lynch Syndrome Associated Gastrointestinal Neoplasms Show Gene Specific Differences: One Size Does Not Fit All!

Lisha Wang, MD; Timothy Weber, MD; Osman Yilmaz, MD; James Fujimoto, PhD; Seymour Rosen, MD; Yue Sun, MD: Rapid Evaluation of Gastrointestinal Biopsy Specimens Using Nonlinear Microscopy: A Proof-of-Concept Study

Feidi Chen, MD; Vikram Deshpande, MD; Monika Vyas, MD: Pathologists' Role in Identifying and Managing Gastrointestinal Cancer Predisposition Syndromes: A Focus on Diagnostic Contributions and Surveillance

Xia Qian, MD; Vikram Deshpande, MD; Osman Yilmaz, MD: Beyond 'Microscopic' Colitis: An Endoscopic Nodular Variant of Collagenous Colitis

Osman Yilmaz, MD: Moderator, Gastrointestinal Pathology

Atsushi Tanaka, MD, PhD; Michael Roehrl, MD, PhD, MBA; Yusuke Otani, MD, PhD: Transcriptome-based Neural Network Classifier Differentiates Clinically Aggressive Undifferentiated Pleomorphic Sarcoma through Gene Signatures of Oncogenic and Immune Pathways

Monika Vyas, MD: Diagnosis and Evaluation of Digestive Tract Neuroendocrine Neoplasms: Case-Based Challenges and Solutions

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USCAP Faculty and Trainee Presentations

Liza Quintana, MD: Shining a Light on HER2-Low and HER2-Ultralow Metastatic Breast Cancer: A Pathologist's Guide to Bridging the Diagnostic Gaps

Osman Yilmaz, MD: Prognostic Relevance of Minimal Residual Disease in Treated Rectal Carcinomas

Vikram Deshpande, MD: Advanced Cell Diagnostics - BioTechne - RNAscope: Lightning Lunch and Learn

Seyedreza Mousavi, MD: Assessing the Accuracy and Clinical Utility of Chat GPT V4.0 in Interpretation of Urine or Serum Protein Electrophoresis (U-SPEP)

Xia Qian, MD; Vikram Deshpande, MD: Comparative Study of Mixed Neuroendocrine and Non-Neuroendocrine Neoplasms: Insights from India and the U.S.

Timothy Weber, MD; Quinn Rainer, MD; Roshan Dsouza, MD; Seymour Rosen, MD; James Fuhimoto, PhD; Yue Sun, MD: Rapid Intraoperative Evaluation of Muscularis Propria Presence in Transurethral Resection Specimens (II): NLM, a novel strategy to optimize the procedure

Monika Vyas, MD; Paul VanderLaan, MD, PhD: Extra-duodenal Composite Gangliocytoma/Neuroma and Neuroendocrine Tumor (CoGNET): A Multi-Institutional Cohort Expanding Clinicopathological Characteristics of a Distinct Entity

Quinn Rainer, MD; Lisha Wang, MD; Monika Vyas, MD; Pavel Kopach, MD; Yue Sun, MD: Impact of Digitized Prostate Biopsy Slides on Pathologist Reading Time

Laura C. Collins, MD: Breast Pathology in the Era of Genomics

Dongling Wu, MD; Laura C. Collins, MD; Liza M. Quintana, MD; Yaileen D. Guzmán-Arocho, MD: Axillary Lymph Node Dissection (ALND) in Post Neoadjuvant Chemotherapy (NAC) Breast Cancer Patients with Positive Sentinel Lymph Node Biopsy (SLNB): A Single Institution's Experience

Emily Towery, MD: Clinicopathologic and Molecular Characterization of Uterine Smooth Muscle Tumors in Patients with Li-Fraumeni Syndrome

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New Publications

- **VanderLaan PA.** *Cytology fine-needle aspiration and surgical pathology core needle biopsy reporting: blurred lines or battle lines?* **J Am Soc Cytopathol.** 2025 Jan-Feb;14(1):1-4. doi: 10.1016/j.jasc.2024.10.002 | PMID: [39516138](#)
- **Wahane A, Kasina V, Pathuri M, Marro-Wilson C, Gupta A, Slack FJ, Bahal R.** *Development of bioconjugate-based delivery systems for nucleic acids.* **RNA.** 2024 Dec 16;31(1):1-13. doi: 10.1261/rna.080273.124 | PMID: [39477529](#); PMCID: PMC11648935
- **Huang P, Wei G, Kirkpatrick JD, et al.** *Transposon-based oncogene integration in Abcb4(Mdr2)-/- mice recapitulates high susceptibility to cholangiocarcinoma in primary sclerosing cholangitis.* **J Hepatol.** 2025 Jan;82(1):84-96. doi: 10.1016/j.jhep.2024.07.016 | PMID: [39089631](#); PMCID: PMC11655257
- **Quinlivan KM, Howard IV, Southan F, et al.** *Exploring the Unique Role of Specialized Pro-Resolving Mediators in Cancer Therapeutics.* **Prostaglandins Other Lipid Mediat.** 2024 Dec 23;106944. doi: 10.1016/j.prostaglandins.2024.106944 | PMID: [39722403](#)
- **Krimsky WS, VanderLaan PA, Iding JS, et al.** *A quantitative method for assessing treatment-related changes within the airway mucosa in patients with chronic bronchitis.* **Respir Med.** 2025 Jan;236:107889. doi: 10.1016/j.rmed.2024.107889 | PMID: [39615802](#)
- **Zhao M, Manayan RC, Nishino M, Gomez ED.** *Oral Herpes Simplex Virus Mimicking Tongue Squamous Cell Carcinoma in Von Hippel-Lindau Patient: A Case Image.* **Head Neck Pathol.** 2025 Jan 7;19(1):4. doi: 10.1007/s12105-024-01721-7 | PMID: [39775472](#); PMCID: PMC11706810
- **Omenn GS, Orchard S, Lane L, et al.** *The 2024 Report on the Human Proteome from the HUPO Human Proteome Project.* **J Proteome Res.** 2024 Dec 6;23(12):5296-5311. doi: 10.1021/acs.jproteome.4c00776 | PMID: [39514846](#)
- **Protonotarios A, Asimaki A, Basso C, et al.** *Naxos Disease and Related Cardio-Cutaneous Syndromes.* **JACC Adv.** 2025 Jan 10;4(2):101547. doi: 10.1016/j.jacadv.2024.101547 | PMID: [39877668](#); PMCID: PMC11773020

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New Publications

- **Abel G, Ansari MQ, Snyder MR, et al.** *Historical Perspective on Antinuclear Antibody Testing.* *J Rheumatol.* 2025 Feb 1;jrheum.2023-1121. doi: 10.3899/jrheum.2023-1121 | PMID: [39892879](#)
- **Nguyen P, Li M, Morgan A, Arnaout R, Arnaout R.** *Grade Inflation in Generative Models.* *ArXiv [Preprint].* 2025 Jan 22;arXiv:2501.00664v3. PMID: [39801617](#); PMCID: PMC11722526
- **Schwartz SN, Stamer DK, Jiles E, et al.** *DNA methylation profiling in a case of papillary tumor of the pineal region.* *J Neuropathol Exp Neurol.* 2025 Feb 1;84(2):158-160. doi: 10.1093/jnen/nlae099 | PMID: [39321468](#)
- **Kakoullis L, Alonso CD, Burns R, et al.** *Comparative Outcomes of Babesiosis in Immunocompromised and Non-Immunocompromised Hosts: A Multicenter Cohort Study.* *Clin Infect Dis.* 2025 Jan 28;ciaf034. doi: 10.1093/cid/ciaf034 | PMID: [39873391](#)
- **Bhattacharjee S, Gao J, Lu YW, et al.** *Endothelial FOXM1 and Dab2 promote diabetic wound healing.* *JCI Insight.* 2025 Jan 23;10(2):e186504. doi: 10.1172/jci.insight.186504 | PMID: [39846251](#); PMCID: PMC11790024
- **Huang Q, Cheng YQ, Hu KW, Ding Y.** *Gastric Cardiac Carcinoma: Recent Progress in Clinicopathology, Prognosis, and Early Diagnosis.* *J Dig Dis.* 2025 Mar 20. doi: 10.1111/1751-2980.13336. Epub ahead of print. PMID: [40110752](#).
- **Abel G, Ansari MQ, Snyder MR, Tebo AE, Wener MH, Naides SJ.** *Historical Perspective on Antinuclear Antibody Testing.* *J Rheumatol.* 2025 Mar [PubMed PMID: 39892879](#)
- **Wang S.** *Resolving the bone - optimizing decalcification in spatial transcriptomics and molecular pathology.* *J Histotechnol.* 2025 Mar;48(1):68-77. [PubMed PMID: 39723974](#)
- **Harvey J, et al.** *Epigenetic insights into neuropsychiatric and cognitive symptoms in Parkinson's disease.* *NPJ Parkinsons Dis.* 2025 Mar 2;11(1):39. [PubMed PMID: 40025048](#) | [PMC: PMC11873129](#)
- **Salehi Farid A, et al.** *CD45-PET is a robust, non-invasive tool for imaging inflammation.* *Nature.* 2025 Mar;639(8053):214-224. [PubMed PMID: 39843738](#)
- **Otani Y, et al.** *The role of C1orf50 in breast cancer progression and prognosis.* *Breast Cancer.* 2025 Mar;32(2):292-305. [PubMed PMID: 39604563](#) | [PMC: PMC11842435](#)
- **Huang Y, et al.** *Triple antimicrobial combinations with potent synergistic activity against *M. abscessus*.* *Antimicrob Agents Chemother.* 2025 Mar 14. [PubMed PMID: 40084880](#)

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New Publications

- **Torous VF, Pineda CM, Quintana LM, Chebib I, VanderLaan PA.** *Pericardial effusion cytology: malignancy rates, patterns of metastasis, comparison with pericardial window, and genomic correlates.* **J Am Soc Cytopathol.** 2025 Mar-Apr;14(2):132-141. doi: 10.1016/j.jasc.2024.12.005 | PMID: [39843307](#)
- **Tanaka A, Ogawa M, Zhou Y, et al.** *Proteomic basis for pancreatic acinar cell carcinoma and pancreatoblastoma as similar yet distinct entities.* **NPJ Precis Oncol.** 2024 Oct 3;8(1):221. doi: 10.1038/s41698-024-00708-5 | PMID: [39363045](#); PMCID: PMC11449907
- **Rezaeian AH, Wei W.** *Molecular signaling and clinical implications in the human aging-cancer cycle.* **Semin Cancer Biol.** 2024 Nov;106-107:28-42. doi: 10.1016/j.semcancer.2024.08.003 | PMID: [39197809](#); PMCID: PMC11625621
- **Argani P, Oshima K, Anders RA, et al.** *Cholangioblastic Cholangiocarcinoma (NIPBL::NACC1 cholangiocarcinoma): Expanded Morphologic Spectrum and Further Genetic Characterization.* **Am J Surg Pathol.** 2025 Jan 16. doi: 10.1097/PAS.0000000000002365 | PMID: [39815455](#)
- **Pita-Juarez Y, Karagkouni D, Kalavros N, Melms JC, Niezen S, Delorey TM, Essene AL, Brook OR, Pant D, Skelton-Badlani D, Naderi P, Huang P, Pan L, Hether T, Andrews TS, Ziegler CGK, Reeves J, Myloserdnyy A, Chen R, Nam A, Phelan S, Liang Y, Gregory M, He S, Patrick M, Rane T, Wardhani A, Amin AD, Biermann J, Hibshoosh H, Veregge M, Kramer Z, Jacobs C, Yalcin Y, Phillips D, Slyper M, Subramanian A, Ashenberg O, Bloom-Ackermann Z, Tran VM, Gomez J, Sturm A, Zhang S, Fleming SJ, Warren S, Beechem J, Hung D, Babadi M, Padera RF Jr, MacParland SA, Bader GD, Imad N, Solomon IH, Miller E, Riedel S, Porter CBM, Villani AC, Tsai LT, Hide W, Szabo G, Hecht J, Rozenblatt-Rosen O, Shalek AK, Izar B, Regev A, Popov YV, Jiang ZG, Vlachos IS.** *A single-nucleus and spatial transcriptomic atlas of the COVID-19 liver reveals topological, functional, and regenerative organ disruption in patients.* **Genome Biol.** 2025 Mar 14;26(1):56. DOI: 10.1186/s13059-025-03499-5 | [PMID: 40087773](#) | [PMCID: PMC11907808](#)
- **Hubbard JA.** *Review on Toxicology Testing in Hair.* **J Appl Lab Med.** 2025 Mar 28;jfaf026. doi: 10.1093/jalm/jfaf026. Epub ahead of print. PMID: [40156129](#)