

UNC Department of Pathology and
Laboratory Medicine

2024-2025 Annual Report



Letter from the Chair



Dear Colleagues, Partners, and Friends,

As we reflect on the past year, I am filled with immense pride and gratitude for the extraordinary work accomplished across the Department of Pathology and Laboratory Medicine. Our faculty, staff, trainees, and collaborators have continued to demonstrate resilience, innovation, and a steadfast commitment to excellence in patient care, education, and research.

This year, we advanced our mission in meaningful ways. Our diagnostic services remained a cornerstone of clinical excellence, supporting thousands of patients with timely, accurate, and compassionate care. Our research enterprise continued to grow, with new grants, publications, and collaborations that are shaping the future of pathology and laboratory medicine. And our educational programs—spanning medical students, residents, fellows, and continuing education—remained vibrant and impactful, preparing the next generation of leaders in our field. We also made important strides in fostering a more inclusive and supportive environment. Through department-wide initiatives and individual efforts, we are building a culture where everyone feels valued and empowered to contribute their best.

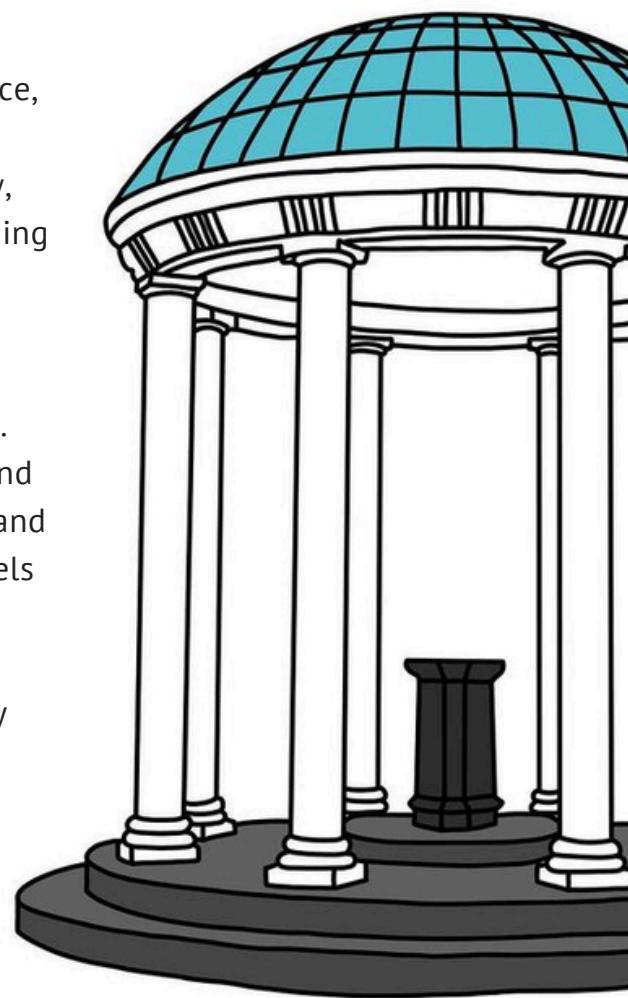
Looking ahead, we are excited about the opportunities on the horizon. From embracing new technologies in digital pathology and AI, to expanding our translational research efforts, to deepening our community partnerships—we are poised to lead with purpose and vision.

Thank you for being part of our journey. Your dedication, collaboration, and passion make all the difference.

With appreciation,

Russell Broaddus, MD, PhD

Chair, Department of Pathology and Laboratory Medicine



MISSION: Our mission is to enhance the health and well-being of North Carolinians and beyond by fostering the next generation of scientists and clinicians in a supportive environment while driving discovery and innovation to improve patient care through cutting-edge diagnosis and treatment.

VISION: Our vision is to be the nation's leading department of pathology and laboratory medicine among public medical schools.



Department Stats

227

TOTAL MEMBERS

101 Faculty

- 34 RESEARCH FACULTY
- 56 CLINICAL FACULTY
- 11 DIVISION OF
COMPARATIVE MEDICINE
VETERINARIAN/VETERINARY
PATHOLOGISTS

78 Learners

- 13 POST DOCS
- 36 GRADUATE
STUDENTS
- 16 RESIDENTS
- 13 FELLOWS

48 Staff



Department Faculty

Associate Chair for Administration			Department Chairperson			Department Vice Chairs					
Dani Burns			Dr. Russell Broadbuss			VC for Basic Science Research VC for Clinical Services VC for Clinical Research & Academic Affairs VC for Comparative Medicine					
Anatomic Pathology Dr. Sara Wobker Dr. Georgette Dent Dr. Jon Homeister Dr. Ben Cho Dr. Staci Keene Dr. Leigh Thorne Dr. Leslie Dodd Dr. Laleh Hakima Dr. Siobhan O'Connor Dr. Danielle Samulski Dr. Lori Scanga Dr. Jan Silverman Dr. Lee-Ching Zhu Dr. Charles Jennette Dr. Vanessa Moreno Dr. Ben Cho Dr. Yuri Trembath Dr. Fred Aakin Dr. Anne Bartels Dr. Christine Bookhout Dr. Russell Broadbuss Dr. Amy Brownlee Dr. Ben Calhoun Dr. Lee-Ching Zhu Dr. Laleh Hakima Dr. Alina Iuga Dr. Steven Johnson Dr. Riham Katkhuda Dr. Susan Maygarden Dr. Danielle Samulski Dr. Lori Scanga Dr. Jan Silverman Dr. Bart Singer Dr. Amanda Strickland Dr. Yuri Trembath Dr. Sara Wobker			Clinical Pathology VC for Clinical Services CP Director Clinical Chemistry Cytogenetics Hematopathology			Investigative Pathology VC for Basic Science Research Director of Graduate Studies Dr. Andrew Gladden Dr. Silvio Antoniak Dr. Pablo Ariel Dr. Jessica Bowers Dr. Iain Carmichael Dr. Yanhan Dong Dr. Matt Flick Dr. Andrew Gladden Dr. Peiqi Hu Dr. Steve Hur Dr. Yukako Kayashima Dr. Mehmet Kesimer Dr. Boa Kim Dr. Feng Li Dr. Jiaodong Liu Dr. Chris Mack Dr. Nobuyo Maeda Dr. Tim Nichols Dr. Sushant Patel Dr. Li Qian Dr. Boris Reidel Dr. Harsharan Singh Dr. Erika Sparkenbaugh Dr. Joan Taylor Dr. Cyrus Vaziri Dr. Haofei Wang Dr. Jeremy Wang Dr. Bernard Weissman Dr. Scott Williams Dr. Alisa Wolberg Dr. Melinda Yates Dr. Xianwen Yi Dr. Qiang Zhu			Veterinary Pathology VC for Comparative Medicine Dr. Hannah Atkins Dr. Iliana Galex Dr. Nneke George Dr. Virginia Godfrey Dr. Tracy Heenan Dr. Katie Lamont Dr. Allison Rogala Dr. Rani Sellers Dr. Steven Shipley Dr. Greg Wilkerson Dr. Morika Williams		
Clinical Education Leadership GME Designated Institution Officer Residency Program Director Residency Associate Program Directors Fellowship Program Directors Clinical Chemistry Clinical Immunology Clinical Microbiology Cytopathology ENT Pathology Forensic Pathology Hematopathology Laboratory Genetics & Genomics Molecular Genetic Pathology Surgical Pathology Transfusion Medicine			Dr. Herb Whinna Dr. Jason Merker Dr. Steve Cotten Dr. Nichole Korpi-Steiner Dr. Dona Kanavy Dr. Jason Merker Dr. Kelly Rafferty Dr. Lori Ramkissoon Dr. Tam Sneddon Dr. Ben Cho Dr. Randa Dafalla Dr. Georgette Dent Dr. Staci Keene Dr. Yuri Fedoriv Dr. Jonathan Galeotti Dr. Stephanie Mathews Dr. David Williams Dr. Yara Park Dr. Siobhan O'Connor Dr. Stephanie Mathews Dr. Susan Maygarden Dr. Nichole Korpi-Steiner Dr. John Schmitz Dr. Melissa Miller Dr. Jan Silverman Dr. Bart Singer Dr. Craig Nelson Dr. Stephanie Mathews Dr. Kelly Rafferty Dr. Karen Weck Dr. Steven Johnson Dr. Matthew Karafin			CLIA Laboratory Directorships UNC Hospitals Laboratory Medical Directors UNCH McLendon Clinical Laboratories UNCH Eastowne Laboratory UNCH Hillsborough Laboratory UNCH Chatham Hospital Laboratory UNC Hospitals Point of Care Testing UNCH Ambulatory Care Center Laboratory UNCH Chatham Park Laboratory UNC & NCSU Campus Health Laboratories UNCH Children's Raleigh Laboratory			Department Vice Chairs Dr. Alisa Wolberg Dr. Herb Whinna Dr. Yuri Fedoriv Dr. Craig Fletcher		
						Forensic Pathology State Medical Examiner's Office Adjunct Faculty Dr. Michelle Aurelius Dr. Janet Baranello Dr. Sandra Bishop-Freeman Dr. Kimberly Janssen Dr. Craig Nelson Dr. Lauren Scott Dr. Susan Venuti Dr. Paul Yell					

SCHOOL OF MEDICINE
Pathology and Laboratory Medicine

Clinical Trainees

THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL DEPARTMENT OF PATHOLOGY AND LABORATORY MEDICINE Residents and Clinical Fellows • 2024-2025



Alkanaq, Ahmed
LabGenetics/Genomics



Bantumilli, Surekha
PGY4



Benjamin, Kaisha
ClinicalMicrobiology



Brennan, John
PGY4



Chamberlain,
Gregory Surgical
Pathology



Chiaro, Tyson
Clinical Immunology



Crosby, Ashley
Transfusion Medicine



Dafalla, Randa
Molecular Genetics



Dial, Courtney
Clinical Microbiology



Ferrick, James
PGY1



Ferroni, Sarah
PGY2



Gray, Shannon
Lab Genetics/Genomics



Han, Jianmin
Hematopathology



Hansen,
Christina
PGY2



Hedgepeth, John
Surgical Pathology



Lauffenburger,
Daniel
PGY1



Lindsey, Allison
PGY2



Miller, Kaysie
Forensic Pathology



Maniaci, Joseph
PGY3



Masters, Daniel
PGY3



Miller, Kelsey
Co-Chief (PGY4)



Price, Emery
PGY1



Quistian, Luis
PGY1



Rahoui, Nabil
Surgical Pathology



St. John, Haley
PGY3



Taylor, Haley
Co-Chief (PGY4)



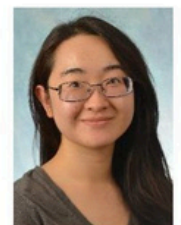
Twum, Kwaku
Clinical
Chemistry



Vorapanya, Pat
PGY2



Willoughby, Sally
PGY1



Zhang, Sophia
PGY2

Department Learners and Staff

RESEARCH STAFF

ABRAHAMS, SARA ROSE
ANAND, JAY RAMANLAL
BAKER, LILLIAN SOMERS
CARPENTER JR, MILTON J
CHANG, JEN-YEA
CHOUDHARI, MANSI V
FU, GRACE HUIYU
GEYER, JULIE
HAGAMAN JR, JOHN R
ISSA, SAMER MATTHEW
KLEVANS, IAN W
KLOOS, MARK TYLER
LI, YAN
LOAM, IAN
LOWERY, ASHLYN ELIZABETH
MADDEN, VICTORIA J
MADREN, JILLANN AYERS
MAGNO, AMANDA RIBEIRO
RAYMER, ROBIN
RIGSBEE, NATALIE DEFRIESS
VU, HUONG
WANG, YANG
WHITE, KRISTEN K

LABORATORY STAFF

BURCH, KIMBERLY D
BUTCHER, DALTON RAY
GALLEGOS, NAOMI R
SIDDIQUI, MOHAMMED ABDUL BASHIR
WANG, LING

ADMINISTRATIVE STAFF

BADSTEIN, JANICE
BURNS, DANIELLE
COX, PAUL N
CRUTCHFIELD, SHEILA W
ETHERIDGE, SUZY R
FEUDALE, JESSIE L
GOCHE, ANITA L
HEWLINGS, MICHELLE CHRISTINE
MAYSE, JESSICA MARIE
MOON, DONNA G
MOORE, TIFFANY MARIA
REICH, LINDSEY
SMITH, ASHLEY MONET
TRUESDALE, ANGEL
WILLIAMS, MARY KATHLEEN
ZIMMERMAN, ASHLEY

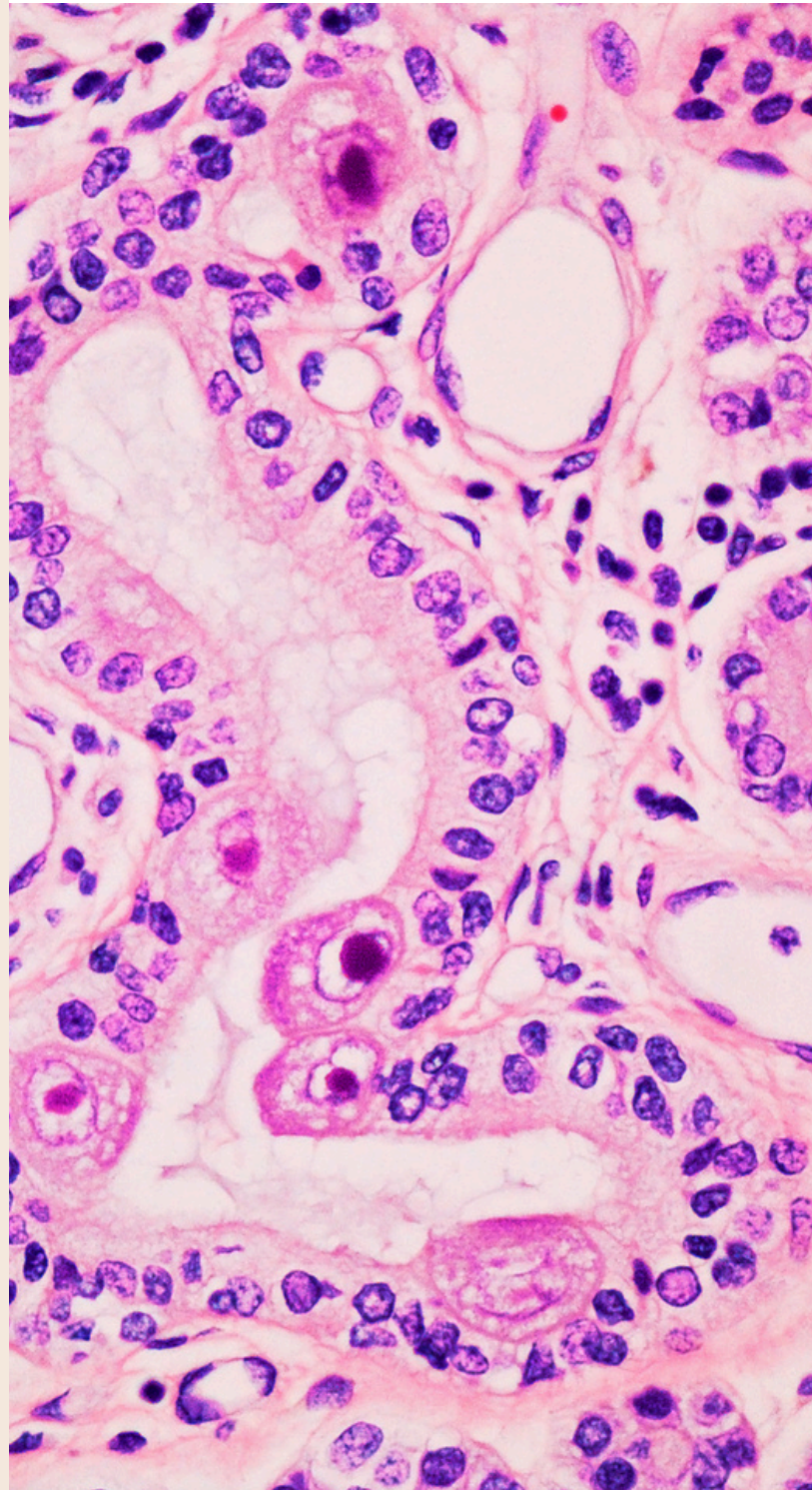
POSTDOCTORAL FELLOWS

ALTRIETH, AMBER
DELVA-WILEY, JEANNETTE
KANGRO, KADRI
LAPOINTE, CATHERINE
LOUGH, KENDALL JACOB
MA, QING
REITSMA, STEPHANIE ELENA
SANG, YAQIU
SANNAREDDY, PRASHAMSA
WARIYAPPERUMA APPUHAMILLAGE,
NIROSHANI MADUSHIKA

Department Learners and Staff

GRADUATE STUDENTS

- SAMANTHA BECK
- PRIA BOSE
- YOUNG JOO CHOI
- JENNY COELHO
- MARGARET DEMONIA
- MAXWELL FINKELSTEIN
- ANNA GODDARD
- LUCIA GRANDISON
- SKYLAR GRIMSLEY
- HANNAH HALL
- JAHNELLE JACKSON
- BREANNA JEFFCOAT
- EMILY KOUNLAVONG
- SAVANNAH LABUDA
- CHELSEA LI
- ELIZABETH MCINNIS
- MAKALA MOORE
- GERGELY MOZES
- ALLISON MURRAY
- JONATHAN NAGEL
- CONSTANDINA O'CONNELL
- MACY OSBORNE-FRAZIER
- XIAOLU PAN
- MOLLY PARRISH
- EMILY RABJOHNS
- CLAIRE REIST
- SHEA RICKETTS
- SNEHASUDHA SAHOO
- ZACHARY SCHRANK
- CHELSEA SMITH
- PAIGE TAKASUGI
- AMY ZHANG



New Faculty and Staff

- **Erica Sparkenbaugh, PhD** joined as an Assistant Professor. She brings with her the Sparkenbaugh Lab, which aims to investigate the interplay between the coagulation cascade and inflammation in animal models of disease
- **Xianwen Yi, PhD** joined as a Research Assistant Professor. He returns to Dr. Maeda's lab, where he previously worked and researched atherosclerosis using genetic animal models.
- **Jeremy Wang, PhD** joined as an Associate Professor. His current work focuses on using low-cost nano-pore RNA and DNA-sequencing to enable comprehensive molecular characterization of pediatric acute leukemias and solid tumors in low-resource settings where traditional diagnostic infrastructure is unavailable.
- **Amanda Strickland, MD** joined as a Clinical Associate Professor in the Division of Surgical Pathology and her research focuses on biomarkers of gynecologic malignancies, particularly endometrial neoplasia.
- **Anne Bartels, MD** joined as a Clinical Assistant Professor in the Division of Surgical Pathology. Her research focuses on clinicopathologic correlation studies related to women's health, with a particular emphasis on breast cancer.
- **Steve Hur, PhD** joined as a Research Assistant Professor. He studies studies the molecular and cellular mechanisms by which coagulation/fibrinolytic proteins contribute and regulate metabolic processes to regulate the development of metabolic pathologies such as obesity, metabolic dysfunction-associated steatotic
- **Kathryn (Katie) Lamont Shelton, DVM, PhD, DACLAM**, who joined as an Assistant Professor.
- **Tracy Carroll, MHSA** joined as the new Clinical Research Coordinator supporting DPLM clinical research efforts.
- **Qiang Zhu, PhD** was appointed Assistant Professor.
- **Stephanie Batutis, PA**, joined the department as a Clinical Instructor.
- **Yanhan Dong, PhD** who was appointed as Research Assistant Professor in the department.
- **Lauren Yoho, MHS, PA**, who joined our department as a Clinical Instructor.

Grant Awards and Funding

- **Li Qian, PhD** and **Yifang Xie, PhD**: "Post-transcriptional mechanisms of direct cardiac reprogramming," National Heart, Lung, and Blood Institute (NHLBI).
- **Mehmet Kesimer, PhD**: "Mucin MUC5AC as the Molecular Driver of Airway Mucus Plugging and Obstruction," Cystic Fibrosis Foundation and "SubPopulations and InteRemediate Outcomes in COPD (SPIROMICS) III Mucin Studies," UCSF subcontract on an existing NIH grant.
- **Matthew Flick, PhD**: "Reprogramming to PDAC Stroma by Targeting Coagulation in the Tumor Microenviroment" from UIUC (NIH Prime).
- **Joan Taylor, PhD**: "North Carolina Diabetes Research Center: Novel Regulator of Skeletal Muscle Mitophagy and Whole Body Homeostasis" from WF University Health Science (NIH Prime).
- **Sara Wobker, MD, MPH**: 2024 AAMC Mid-Career Women Faculty Leadership Development Seminar.
- **Hannah Atkins, DVM, PhD, DACVP** on received the American College of Veterinary Pathology President's Award!
- **Alisa Wolberg, PhD** was honored with the J. Evan Sadler Lectureship at Washington University at St. Louis for her life-long contributions to the field of vascular biology.
- **Xianwen Yi, PhD** received \$25,000 in boost funding from the University to support his proposal to improve diabetic nephropathy via regulating metabolic reprogramming using new metabolic mouse models.
- **Lucia Grandison**, PBTS graduate student, on received a predoctoral fellowship with the American Heart Association.
- **Ashley Crosby, MD**, clinical fellow mentored by Dr. Danielle Maracaja, who received the Hematology Inclusion Pathway Award from the American Society of Hematology and presented her work "Monocyte Distribution Width as a Marker of Res Cell Alloimmunization" at the annual meeting in December.
- **Steve Hur, PhD** was awarded the NORC Pilot and Feasibility Award. Awards are designed for researchers to collect preliminary data that supports a grant application for independent research support and published work. The UNC NORC will award pilot grants of up to \$40,000 in direct costs each.
- **Kadri Kangro, PhD**, working in the lab of Alisa Wolberg, PhD, was awarded the 2024 Aniara Diagnostica Coagulation Research Grant for \$10,000.
- **Danielle Samulski, MD** won a \$500 grant from the Intersociety Council for Pathology Information (ICPI) to benefit the Pathology Interest Group.

Grant Awards and Funding

- **Jiandong Liu, PhD** was awarded a grant through the NIH National Heart, Lung, and Blood Institute (NHLBI) for his work on Carm1-mediated transcriptional and post-transcriptional regulation of cardiomyocyte maturation.
- **Ilana Galex, MLAS, DVM, DACLAM** received a \$5,000 award through the American Society of Laboratory Animal Practitioners to host a summer fellowship for a veterinary student interested in laboratory animal medicine. She also received a grant from the American Association For Laboratory Animal Science (AALAS) for "The Effects of Various Oral Gavage Needles on Clinical and Welfare Outcomes in C57BL/6 Mice".
- **Matthew Flick, PhD** received a subcontract from Versiti on a DOD grant for "Controlling Thromboembolism After Polytrauma with an RNA Therapy Against Excess Fibrinogen" and a grant from the NIH National Heart, Lung, and Blood Institute (NHLBI) for "Novel mechanisms to limit thrombosis by decreasing fibrinogen or suppressing fibrin matrix formation". He also received another year of funding from UVA "Novel mechanism underlying fibrinogen biogenesis in the endoplasmic reticulum", an NIH funded project. Congratulations Dr. Flick!
- **Alisa Wolberg, PhD** received a grant renewal from The University of Texas Health Science Center at Houston for "Using genomics and functional biology to understand fibrinogen and factor XIII and their effects on thrombotic disease" a collaborative work with Dr. Alanna Morrison of UT Houston.
- **Yanhan Dong, PhD** on receiving a Career Development Award from the American Heart Association.
- **Feng Li, PhD** received another year of funding for her grant "Benefits of nicotinamide in placental development and in preeclampsia" from the NIH.
- **Timothy Nichols, MD** received a subcontract from Indiana University on NIH grant for "Immunocytokine therapy for immune modulation in hemophilia".
- **Danielle Samulski, MD** and **Aaron Dobbins** received a grant from the American Society for Clinical Pathology to benefit the department's Pathology Interest Group for medical students.
- **Melissa Miller, PhD** will receive the Career Achievement Award at the Pan American Society for Clinical Virology (PASCV) annual meeting in May 2025.
- **Yara Park, MD** was selected as the recipient of the 2025 Presidential Award at the annual American Society for Apheresis conference.
- **Jessie Feudale, MHA** was selected as the 2025 Society of '67 APEX Fellow award by AAPath..
- **Alina Iuga, MD** received another year of funding from NCSU for "Development of an INSPIRE System for the Treatment of Inoperable Liver Tumors", an NIH funded project.

Grant Awards and Funding

- **Alisa Wolberg, PhD** received a second year of NIH R01 funding for "Interdisciplinary approach to elucidate modifiers of bleeding phenotype in factor XI deficiency"
- **Brooke Bollinger**, a trainee investigator in Comparative Medicine, worked with mentor, Dr. Morika Williams, to secure a grant for their project titled "Drug Stability of Transdermal Buprenorphine Solution (TBS) following Transfer to Multi-dose Containers".
- Congratulations to graduate student **Jenny Coelho** (mentor, Dr. Yuri Fedoriw) for being the recipient of the Graduate Fellow Award in Basic Science from the UNC Lineberger Comprehensive Cancer Center!

Department Awards

Faculty Awards

- Askin Award - FY25: **Benjamin Cho, MD**
- Blatt Award - FY25: **Melissa Miller, PhD**
- Dalldorf Award - FY25: **Ben Cho, MD**
- Grisham Excellence in Teaching Award - FY25: **Pablo Ariel, PhD**

Resident Awards

- Burnice Taylor Award - FY25: **Sally Willoughby, MD**
- LaMar Resident Award - FY25: **Haley Taylor, MD**
- McLendon Award -(two recipients each year starting in FY24) - FY25: **Sally Willoughby, MD & Ty Chiaro, PhD**

Graduate Student Awards

- Goldman Cancer Research Award - FY25: **Zachary Schrank**
- Graduate Student Travel Award - FY25: **Trinity Moore**
- Pryzwansky Travel Award - FY25: **Paige Takasugi**
- Sykes Fellowship - FY25: **Dina O'Connell**
- Wagner Scholarship - FY25: **Elizabeth McInnis**

Staff Awards

- Gulley Award - FY25: **Katie Williams**
- Nye Award - FY25: **Paul Cox**

Publications

Kevin Alby, PhD

- Performance Standards for Antimicrobial Disk Susceptibility Tests, 14th Edition. CLSI Standard M02; 2024
- Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria That Grow Aerobically, 12th Edition. CLSI Standard M07; 2024
- Implementation of Taxonomy Nomenclature Changes, 1st Edition. CLSI Guideline M64; 2024
- Andermann T, Brown D, Holowka T, Bartelt L, Serody J, Armistead P, Jamieson K, Conlon B, Rao G, **Alby K**, Van Duin D, Henderson HI. The Prevalence of Multidrug Resistance in Enterobacterales is Higher in Patients Undergoing Hematopoietic Stem Cell Transplantation. Open Forum Infectious Diseases. 2024 ofae760 doi: 10.1093/ofid/ofae760
- Saiman L, Waters V, LiPuma JJ, Hoffman LR, **Alby K**, Zhang SX, Yau YC, Downey DG, Sermet-Gaudelus I, Bouchara JP, Kidd TJ, Bell SC, Brown AW. Practical Guidance for Clinical Microbiology Laboratories: Updated guidance for processing respiratory tract samples from people with cystic fibrosis. Clin Microbiol Rev. 2024 Sep 12;37(3):e0021521 doi: 10.1128/cmr.00215-21. PMID 3915830
- Giffen SR, **Alby K**. The Brief Case: A case of bloodstream infection with *Corynebacterium kroppenstedtii* in an infant. J Clin Microbiol 2024. Mar 13;62(3). doi: 10.1128/jcm.00820-23. PMID 38477566
- Rausch EP, **Alby K**, Wilson W. Efficacy of noncarbapenem therapy for the treatment of ceftriaxone-resistant Enterobacterales outside of the urinary tract. Antimicrob Steward Healthc Epidemiol. 2024 Jan 9;4(1)

Silvio Antoniak, PhD

- Sharma S, **Antoniak S**. Microbiota-driven coagulation activation during SARS-CoV-2 Infection. J Thromb Haemost. 2024; 22(7): 1835-1837.
- Ward C, Curry N, El-Ekiaby M, Jurk K, Versteeg HH, Keragala C, Burstyn-Cohen T, **Antoniak S**, Suzuki Y, Baker RI, Christophe O, Revel-Vilk S, Hart A, Deppermann C, Tran H, Pozzi N, Kahr WHA, Grover SP, Wenzel P, Brown AC, Oury C, Shea SM, Fredenburgh J, Passam FH, Winearls J, Moore HB, Tole S, Merriman E, Barnes GD, Liu ZL, Sholzberg M. Illustrated State-of-the-Art Capsules of the ISTH 2024 Congress. Res Pract Thromb Haemost. 2024; 8(4): 102432.
- Sharma S, **Antoniak S**. New insights in the pathology of chronic thromboembolic pulmonary hypertension. JACC Basic Transl Sci. 2024 JACC Basic Transl Sci. 2024; 9(1): 117-119.
- Zhang Y, Bharathi V, Dokoshi T, de Anda J, Urserly LT, Kulkarni NN, Chen J, Luo EWC, Wang L4, Xu H, Coady A, Zurich R, Lee MW, Matsui T, Lee H, Chan LC, Schepmoes AA, Lipton MS, Zhao R, Adkins JN, Clair GC, Thurlow LR, Schisler JC, Wolfgang MC, Hagan RS, Yeaman MR, Weiss TM, Chen X, Li MMH, Nizet V, **Antoniak S**, Mackman N, Gallo RL, Wong GCL. Viral afterlife: SARS-CoV-2 as a reservoir of immunomimetic peptides that reassemble into proinflammatory supramolecular complexes. Proc Natl Acad Sci U S A. 2024; 121(6): e2300644120.

Publications

Pablo Ariel, PhD

- Yang Y, Jayaprakash D, Jhujh S, Reynolds JJ, Chen S, Gao Y, Anand J, Mutter-Rottmayer E, **Ariel P**, An J, Cheng X, Pearce K, Blanchet SA, Nandakumar N, Zhou P, Fradet-Turcotte A, Stewart G, Vaziri C. PCNA-binding Activity Separates RNF168 Functions in DNA Replication and DNA DoubleStranded Break Signaling. *Nucleic Acids Res.* 2024 Nov 27;52(21):13019-13035. doi: 10.1093/nar/gkae918.
- Cotton MJ, **Ariel P**, Chen K, Walcott VA, Dixit M, Breau KA, Hinesley CM, Kedziora KM, Tang CY, Zheng A, Magness ST, Burclaff J. An in vitro platform for quantifying cell cycle phase lengths in primary human intestinal epithelial cells. *Sci Rep.* 2024 Jul 2;14(1):15195. doi: 10.1038/s41598024-66042-9.

Hannah Atkins, DVM, PhD, DACVP

- Hu P, Xiao H, Alba MA, **Atkins HM**, Gou S, Hu Y, Gomez JC, Jania CM, Martin JR, Morrison TE, Tilley SL, Heise MT, Doerschuk CM, Falk RJ, Jennette JC. Myeloperoxidase-ANCA IgG induces different forms of small vessel vasculitis based on type of synergistic immune stimuli. *Kidney Int.* 2024 Aug 29:S0085-2538(24)00628-8. doi: 10.1016/j.kint.2024.08.022. Epub ahead of print. PMID: 39216658.
- **Atkins HM**, Uslu AA, Li JJ, Shearer DA, Brendle SA, Han C, Kozak M, Lopez P, Nayar D, Balogh KK, Abendroth C, Copper J, Cheng KC, Christensen ND, Zhu Y, Avril S, Burgener AD, Murooka TT, Hu J. Monitoring mouse papillomavirus-associated cancer development using longitudinal Pap smear screening. *mBio.* 2024 Aug 14;15(8):e0142024. doi: 10.1128/mbio.01420-24. Epub 2024 Jul 16. PMID: 39012151; PMCID: PMC11323795.
- Witherspoon JG, Hall JR, Jima D, **Atkins HM**, Wamsley NT, Major MB, Weissman BE, Smart RC. Mutant Nrf2E79Q enhances the promotion and progression of a subset of oncogenic Ras keratinocytes and skin tumors. *Redox Biol.* 2024 Sep;75:103261. doi: 10.1016/j.redox.2024.103261. Epub 2024 Jun 28. PMID: 38963974; PMCID: PMC11269801.
- Vinod N, Hwang D, Fussell SC, Owens TC, Tofade OC, Benefield TS, Copling S, Ramsey JD, Rädler PD, **Atkins HM**, Livingston EE, Ezzell JA, Sokolsky-Papkov M, Yuan H, Perou CM, Kabanov AV. Combination of polymeric micelle formulation of TGFβ receptor inhibitors and paclitaxel produces consistent response across different mouse models of Triple-negative breast cancer. *Bioeng Transl Med.* 2024 Jun 4;9(5):e10681. doi: 10.1002/btm2.10681. PMID: 39553439; PMCID: PMC11561794.
- Philip DT, Goins NM, Catanzaro NJ, Misumi I, Whitmire JK, **Atkins HM**, Lazear HM. Interferon lambda restricts herpes simplex virus skin disease by suppressing neutrophil-mediated pathology. *mBio.* 2024 Apr 10;15(4):e0262323. doi: 10.1128/mbio.02623-23. Epub 2024 Mar 1. PMID: 38426749; PMCID: PMC11005406.
- Adams VR, Collins LB, Williams TI, Holmes J, Hess P, **Atkins HM**, ... Kennedy A (2024). Myeloid cell MHC I expression drives CD8+ T cell activation in nonalcoholic steatohepatitis. *Frontiers in Immunology*, Vol. 14. doi: 10.3389/fimmu.2023.1302006.
- Abdelnabi D, Lastakchi S, Watts C, **Atkins H**, Hingtgen S, Valdivia A, McConville C. Local administration of irinotecan using an implantable drug delivery device stops high-grade glioma tumor recurrence in a glioblastoma tumor model. *Drug Deliv Transl Res.* 2024 Nov;14(11):3070-3088. doi: 10.1007/s13346-024-01524-x. Epub 2024 Feb 6. PMID: 38319555; PMCID: PMC11445345.

Publications

Anne Bartels, MD

- **Bartels A**, Fadare O. Nonsclerotic Lichen Sclerosus of Vulva: A Clinicopathologic Analysis. *Int J Gynecol Pathol*. 2024 Aug. online ahead of print. PMID: 39173138

Christine Bookhout, MD

- Maniaci JL, Iuga A, **Bookhout CE**, Cortright LM, Walker KB, Moist SE, Peterson KA, Mitlyng BL, Dellon ES. Mepolizumab Improves Histologic Severity as Measured by the EoEHSS in Adolescents and Adults With Eosinophilic Oesophagitis in a Multicenter, Randomised, Double-Blind, Placebo-Controlled Clinical Trial. *Aliment Pharmacol Ther*. 2025 May 29 (online ahead of print).
- Bantumilli S, Flyke I, Sakthivel MK, **Bookhout C**. Vulvar Lymphangioma Arising in the Setting of May-Thurner Syndrome. *Case Rep Vasc Med*. 2024 Sep 2024:9761009.

Russell Broaddus, MD, PhD

- Haruna I, **Broaddus RR**, Gladden AB, Subedi K, Obeng-Gyasi E. The combined effects of urine zinc, cadmium, mercury, lead, and copper on endometrial cancer staging. *Int J Environ Res Public Health* 2025; 22(2): 245; <https://doi.org/10.3390/ijerph22020245>.

Amy Brownlee, MD

- Coelho J, Roush SM, Xu AM, Puranam K, Mponda M, Kasonkanji E, Mulenga M, Tomoka T, Galeotti J, **Brownlee A**, Ghadially H, Damania B, Painschab M, Merchant A, Gopal S, Fedoriw Y. HIV and prior exposure to antiretroviral therapy alter tumour composition and tumour: T-cell associations in diffuse large B-cell lymphoma. *Br J Haematol*. 2024 Jul;205(1):194-206. doi: 10.1111/bjh.19531. Epub 2024 May 20. PubMed PMID: 38769021; PubMed Central PMCID: PMC11245366.
- Hudson JL, **Brownlee A**, Shah N, Baron T. Endoscopic ultrasound guided liver biopsy is effective and safe in patients after liver transplant. *TIGE*. 2024. doi: <https://doi.org/10.1016/j.tige.2024.06.006>.
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Benjamin Calhoun, MD, PhD

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Dissertation Defenses

- **Angana Mukherjee**, mentored by Dr. Albert Baldwin, “Characterization of the cancer-associated effects of loss and/or mutation of tumor suppressor genes on NF-kB signaling in breast and pancreatic cancers”. Successfully defended on 7/16/24.
- **Sophie Roush**, mentored by Dr. Yuri Fedoriw, “HIV and Antiretroviral Therapy Exposure Alter Immunogenomic Features of Diffuse Large B-Cell Lymphoma.” Successfully defended on 10/28/24.
- **Rebecca Ssengonzi, MS**, mentored by Dr. Feng Li, "Inhibitor of DNA Binding Protein 2 (ID2) Mediates the Anti-proliferative and Pro-differentiation Effects of Insulin-Like Growth Factor (IGF-1) on Human First Trimester Trophoblast Cells." Successfully defended on 11/08/2024.
- **Molly Parish**, mentored by Drs. Andrew Gladden and Russell Broaddus, “Location, Location, Location: Why Cellular Localization of Mutant β -catenin Matters in Endometrial Cancer”. Successfully defended on 5/16/25.

Other Accomplishments

- Congratulations to **Siobhan O'Connor, MD** who has been named the Pathology Residency Program Director!
- Congratulations to **Sara Wobker, MD, MPH**, who will serve as Director of Anatomic Pathology beginning January 1st, 2025.
- Congratulations to **John Schmitz, PhD**, recently named Editor of the Manual of Molecular and Clinical Laboratory Immunology (9th edition).
- Congratulations to **Kwaku Twum Jnr, PhD, DABCC, NRCC** on being selected to participate in the 2024 Medical and Scientific Learning Exchange Program hosted by Siemens Healthineers, Laboratory Diagnostics!
- Congratulations to **Vorapat Vorapanya, MD, MPH** for her nomination to be a member of the 2024-2025 Global Health Scholars Cohort IV!
- In November 2024, **Steven Cotten, PhD** and his **Core Lab** were featured on CBS Sunday Morning during their Thanksgiving broadcast as part of a larger highlight covering the National Institutes of Health's study Nutrition for Precision Health, powered by the All of Us Research Program.
- Thank you to our graduating Chiefs, **Haley Taylor, MD** and **Kelsey Miller, MD** for all of your hard work as you move on to your next ventures. Congratulations to our new Chiefs, **Drs. Pat Vorapanya** and **Joe Maniaci**!
- **Alisa Wolberg, PhD** appeared on *The Pulse* Podcast hosted by the International Society on Thrombosis and Haemostasis. Check out the episode: "Beyond the Lab: Finding a mentor and making your mark".
- Congratulations to **David Williams, MD, PhD** who was elected as VP of the American Society of Investigative Pathology (ASIP), and will follow **Jon Homeister, MD, PhD** as President.
- Congratulations to **Peiqi Hu, MD** for his promotion from Research Associate Professor to Research Professor.



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Pathology and Laboratory Medicine



Campus Box #7525, Brinkhous-Bullitt Building
Chapel Hill, NC 27599-7525
Phone: 919-966-4676
Fax: 919-966-6718