

DEPARTMENT OF LABORATORY MEDICINE AND PATHOLOGY AT THE UNIVERSITY OF WASHINGTON NEWSLETTER

A MESSAGE FROM THE CHAIR



Geoffrey Baird MD, PhD
Professor and Chair
Paul E. Strandjord and Kathleen
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Department of Laboratory
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Dear Colleagues and Friends of the Department of Laboratory Medicine and Pathology,

It is hard to believe that our new Department is already turning two years old, but on July 1, 2022, we will have our second birthday. I last wrote an update like this in December 2021, not fully appreciating the Omicron wave to come, the hundreds of thousands of COVID-19 RT-PCR tests we would perform in the next six months, and the disruption to our work and home lives we all experienced. We are living and working in a complicated and uncertain time, but as a Department, we are continuing to grow and adapt.

As a quick COVID-19 update, when I last counted this month, we had performed 4,958,247 COVID-19 RT-PCR tests, which translates to nearly 2.5 million people, mostly Washingtonians, served. We have invested heavily in testing equipment so that we will continue to be there when the State of Washington needs us...and with approximately 5,000 patients still coming for testing to our community sites on an average weekday, it appears that we are still very much needed. Our Department's contributions to the national COVID-19 response have not stopped at clinical testing, however, as our virology division has also performed many thousands of tests in support of some of the major vaccine (Novovax) and pharmaceutical (Paxlovid) clinical trials, just to name a few. Our Department

thus played a critical role at the start of this pandemic, we have played a critical role throughout this pandemic, and we are leading efforts to end this pandemic.

One huge change for our COVID-19 testing effort since my last update is that it is no longer occurring at our main virology lab on Eastlake. This spring, due to the ending of our lease for the COVID-19 testing space one floor beneath the main virology lab, we moved into new space at 1601 Lind Avenue in Renton, the site of the former west coast headquarters of the Federal Aviation Administration. This 200,000 square-foot, five-story building will be the new home of the Department's central laboratory. While it will take us until 2024-2025 to move the rest of our clinical operations into that building, the virology lab once again proved that it can "roll with the punches" and moved their entire operation, including specimen processing, on a very short timescale to vacate the 1616 Eastlake space as required by our landlord. Once the dust has settled, or at least once the dust reaches an acceptable level, we will send out pictures of the new site. There is MUCH more room in our laboratory space in Renton, and there is a lot of potential to build a great space for work.

With a 2024-2025 go-live date looming for the central lab in Renton, planning for moving our clinical operations is already afoot. A steering committee meets regularly to oversee planning, which to date has included visiting other large reference labs (ARUP in Salt Lake City most recently) to learn from the experience of others, vetting and selecting architects and project management, and division-by-division planning for what types of testing will remain at our main hospital sites and what testing will move to the central lab. We are also holding monthly town hall "Q&A" sessions by Zoom, which provide a way for the Departmental leadership to share updates with the faculty and staff.

Outside of our clinical activities, we have big news coming up in our research enterprise. Our Vice Chair of Research, Dr. **Peter Rabinovitch**, will be stepping down from this role at the end of this month, and we will be joined by

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Dr. **Cindy Derdeyn**, a professor of pathology from Emory University, who will start July 1 as the new Vice Chair of Research. Dr. Derdeyn's interest is in HIV vaccine development using primate models, and she will be bringing her research program to this Department, as well as recruiting new faculty after she arrives. Please welcome Dr. Derdeyn when you see her this summer!

In our education programs, we are continuing to develop outstanding trainees. All of our programs have recently had graduations, including the Molecular Medicine and Mechanisms of Disease (M3D) PhD Program, the residencies and fellowship programs, the Medical Scientist Training Program (MSTP), the Medical Laboratory Science Undergraduate Program, and the Master in Laboratory Medicine and Pathology Program, and these graduates are all headed out to new jobs or additional training. We are also in the very early stages of planning for a Pathology Assistant's training program, which we plan to grow in the coming years as faculty time and space are available. Finally, I would like to announce that Dr. **Libby Parker** has recently signed on as the newest assistant professor on the anatomic pathology service, in the breast and gynecologic pathology section. In addition to serving as an associate AP residency program director, Dr. Parker will serve as an associate pathology thread director for our medical school teaching effort.

Moving on to philanthropy, I'd like to add to the remarks I made in the last newsletter with the announcement that our very own Dr. **Larry True** and **Linda Brown** have generously endowed the Lawrence D. True & Linda J. Brown Endowed Chair in Laboratory Medicine & Pathology. This generous donation will allow the Department to support the work of a physician-scientist "...with practice and research expertise in specialized areas of pathology including, but not limited to, anatomical pathology." Please join me in thanking Larry and Linda for this outstanding and meaningful contribution to the future of our Department.

To close, I would like to wish you all a safe, healthy, and happy summer. Many things are uncertain these days of great personal and global stress, but one thing I am certain of is that the Department of Laboratory Medicine and Pathology at UW will continue to grow and thrive. Thank you for all of your past, present, and future support of the Department.

Sincerely,
Geoff Baird

SUPPORT DLMP

We are grateful for your support of the Department of Laboratory Medicine and Pathology. Your gift, no matter the amount, truly makes a difference. Gifts to the Department support a wide range of needs not covered by state and federal funding, including research, patient care, and testing resources. All gifts are tax-deductible.

Click the button below to make your contribution today!

MAKE A GIFT



IN THE NEWS

Dr. **Mariya Sweetwyne** founded a [crowdsourcing campaign](#) to help cover childcare for research and medical trainees of color. Read "[Childcare crowdfunding campaigns aim to keep mums on the academic track](#)" in *Nature*.

Work with Dr. **Brian Shirts**' [ConnectMyVariant project](#) was featured in the *Vancouver Sun*.

Dr. **Monica Pagano** is the co-chair of the Transfusion, Apheresis and Cellular Therapy committee (TACT). [The TACT committee recently developed a statement supporting gender-neutral blood donor screening.](#)

The Dog Aging Project received a \$2.5 million pledge from tech entrepreneurs. Read more in [UW Medicine Newsroom](#).

Drs. **C. Dirk Keene** and **Amber Nolan-Munn** are featured in "[UW coaching legend Jim Lambright's brain donation pays dividends years after his death](#)" in *The Seattle Times*.

We are saddened to hear about the passing of Dr. **Marie Bridget Coyle**, a DLMP microbiology professor emeritus at Harborview Medical Center. Marie will always be remembered very fondly by those who were fortunate enough to know her. Learn more about her life in the [Chicago Tribune](#).

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and updates!

HONORS, AWARDS, AND ACHIEVEMENTS

Jocelyn Cervantes is a 2nd year graduate student in the Molecular Medicine and Mechanisms of Disease (M3D) PhD program and is mentored by Dr. **Jenny Kanter** at the UW Medicine Diabetes Institute. Jocelyn has been selected as a [2022-2023 Magnuson Scholar](#), which awards one scholar from each of the six health sciences schools who demonstrates excellent academic performance and outstanding potential for a research career focused on diabetic complications.

Erin Goecker and **Jennifer Greenwood** received the [2022 Together We Will Award](#).

Dr. **Rosana Risques** was awarded a Cancer Consortium Pilot Award in collaboration with Drs. **Kemi Doll**, **Elizabeth Swisher**, and **Libby Parker**. The project is entitled "TP53 in Endometrial Cancer Development and Racial Disparities."

Dr. **Stephen Polyak** is a co-investigator for UW's Royalty Research Fund for "Conformational regulation by antibodies and inflammation in COVID-19" with Dr. **Wendy Thomas** from Bioengineering. He is also co-investigator for an R01, NIAID, "Understanding the fundamental enterovirus assembly and maturation pathway" with Dr. **Nicola Stonehouse** from the University of Leeds. Dr. Polyak is a co-investigator for an R21, NIAID, "Artemisia for SARS-CoV-2 infection and inflammation" with Dr. **Joshua Kellogg** from Penn State University.

Dr. **Joanne Ang** received an Accountable Care Organization Award for the project "Evaluation of the diagnostic value of immunohistochemistry in the diagnosis of IgG4-related disease in the absence of characteristic histopathologic findings." Dr. **Jose Mantilla** is the faculty mentor.

After 37 years of service for HMC microbiology, **Barbara (Basia) McNair** retired. Expert parasitologist, AFB ID, mycologist, expert in microbiology bench work up, and teacher to all. Precise, detail-oriented, well-organized, honest, reliable, friendly to all, and always ready to share her expertise. She is a wonderful coworker to work with. We will miss her.

Research Scientist **Meei-Li Huang** and Virology Division

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Administrator **Tamara Schmautz** retired on June 10. We thank them for their dedication to the Department!

Drs. **Marie Das** and **Rebecca Treger** have been awarded the 2021 Strandjord-Clayson Award in recognition of meritorious research and development projects carried out by departmental graduate students, residents, and fellows during their training in DLMP.

Dr. **Anand Patel** received an award from the Brotman Baty Institute (BBI) 2022 Precision Medicine Clinical Labs granting program to study "Cell-Free DNA to Detect Renal Allograft Injury." Dr. Patel will be mentored by Drs. **Christina Lockwood**, **Nik Krumm**, **Scott Kennedy**, and **Kelly Smith**.

Dr. **Allison Knupp** defended her thesis "Probing the Role of SORL1 and Endolysosomal Network Dysfunction in Alzheimer's Disease" on November 12, 2021.

The Genitourinary Pathology Society (GUPS) has selected Dr. **Lawrence True** to receive its first ever lifetime achievement award; it was announced during the 2022 USCAP meeting.

Congratulations to the recipients of the 2022 Building Bridges Award (BBA). This award supports projects that facilitate partnerships between at least two DLMP faculty members that foster new relationships. Drs. **Lori Bourassa** and **Rebeca Alvarez** received a BBA for their project "Utility of Broad-Range PCR for the Detection of Microorganisms in Patients with Granulomatous Mastitis." Drs. **Anna Scott**, **Mariya Sweetwyne**, **Charles Alpers**, and **Matthew Campbell** received a BBA for their project "Developing a novel translational workflow using fresh and frozen tissues to evaluate organ-specific mitochondrial function in response to therapeutic mitochondrial intervention in diabetic kidneys."

Dr. **Brandon Berry**, a postdoctoral scholar fellow in Professor **Matt Kaeberlein's** laboratory, received an American Aging Association (AGE) travel award to present his research at the association's annual meeting in May.

Transfusion Medicine (TM) is now its own division! The TM faculty includes Dr. **Monica Pagano** (division head) with Drs. **John Hess**, **Rida Hasan**, **Hamilton Tsang**, and **Terry Gernsheimer** at UW/Harborview Medical Center, Dr. **Nabiha Huq Saif** at Seattle Children's Hospital, and Drs. **Theresa Nester**, **Kirsten Alcorn**, **Ashley Ellis**, **Bernard Kohr**, **Idoia Gimferrer**, and **David Lin** at Bloodworks Northwest.

Caroline Duncombe was awarded a National Science

Foundation Fellowship to support her graduate studies in the Murphy Laboratory. Caroline is in the Pathobiology Program and her research focuses on the important influence of biological sex on vaccine-induced immune responses.

Dianna Hergott's thesis defense "Elucidating barriers to malaria elimination: An analysis of the role of low-density and imported *Plasmodium falciparum* infections to onward malaria transmission" was on March 17, 2022.

Drs. **Shreeram Akilesh** and **Kelly Smith** are directors of the new Digital Spatial Profiling Core Facility set up with generous support from DLMP. [Please visit the website](#) for more information and contact them to discuss your experiment.

Dr. **Caitlin Latimer** was part of [Brain Awareness Week](#) with her webinar "[Neuropathology of Alzheimer's disease](#)." She also had a recently funded grant through the Alzheimer's Association, "The role of TDP-43 in the heterogeneity of Alzheimer's disease."

The recipient of the 2022 Martin-Reichenbach Endowment Junior Faculty Award is Dr. **Abbye McEwen** for "Validating a multiplexed assay of CDH1 gene function to assist in the interpretation of clinical gene variants." This award, to be granted annually, is meant to foster the academic career of junior faculty members by supporting research projects that show high promise of obtaining follow-on extramural funding. We, and we hope you, are deeply appreciative of the generosity of our many benefactors who endowed this award in honor of our senior faculty, Drs. **George Martin** and **Denny Reichenbach**, to further the research development of junior faculty in the Department.

The Murphy Laboratory was awarded a new \$5.1M NIH-funded U01 grant (1U01AI165457) intended to use human samples and non-human primates to better understand why prior malaria infections wreak havoc on attempts to vaccinate people against malaria. This is a Co-PI award between UW (Dr. **Sean Murphy**) and Oregon Health and Science University (OHSU) in Portland (Dr. **Brandon Wilder**). The project is an ambitious, groundbreaking, inter-institutional, team science project that leverages the resources and expertise at UW, OHSU, and other partner sites to tackle the combined animal studies, immunology, systems biology, and informatics studies.

Dr. **Ray Monnat** received an American Association of Cancer Research (AACR) Team Science Award as a member and senior leader of the Cancer Genome Atlas DNA Damage and Repair Analysis Working Group. He

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was one of the senior authors of the 2018 *Cell Reports* manuscript "[Genomic and Molecular Landscape of DNA Damage Repair Deficiency Across The Cancer Genome Atlas](#)" that was also chosen as a "Best of 2018" paper by *Cell Reports* (see: Knijnenburg et al. (2018) 'Genomic and Molecular Landscape of DNA Damage Repair Deficiency across The Cancer Genome Atlas.' *Cell Reports* 23: 239-254. PMID: PMC5961503).

Dr. **Kikkeri N. Naresh** presented "What makes the lymphoid proliferation associated with infective agents unique?" for Pathology Grand Rounds at Yale School of Medicine in January 2022.

Dr. **Alessandro Bitto** was awarded a K01 from National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) in January 2022.

Dr. **Keith Jerome**, professor and head of Virology, was selected to serve on the National Advisory Allergy and Infectious Diseases Council (NAAIDC).

Drs. **Rebecca Yoda** and **P.J. Cimino** received [Best Author Award for 2021 from PathologyOutlines.com](#) for the topic of Hemangioblastoma.

Dr. **Behzad Najafian** received an Innovative Science Accelerator (ISAC) award from NIH/NIDDK for project "Urine flow cytometry: a non-invasive cell-based approach to diagnose kidney diseases." Drs. **Jonathan Fromm** (DLMP) and **Abbal Koirala** (Department of Medicine, Nephrology) are co-investigators on this grant.

The following Medical Scientist Training Program (MSTP) students matched into the following programs: **Karina Diaz** (University of Colorado – Denver, Pediatrics), **Alec Gibson** (Hospital of the University of Pennsylvania, Neurology), **Ted Gobillot** (Hospital of the University of Pennsylvania, Otolaryngology), **Eli Grunblatt**, (Northwestern University, Internal Medicine), **Nick Hasle** (University of Washington Pediatrics – Research). [Read more about the MSTP Program.](#)

FACULTY PROMOTIONS

Congratulations to the following faculty members who will be promoted effective July 1, 2022.

Drs. **Sindhu Cherian**, **Suzanne Dintzis**, **Yajuan Liu**, **Tina Lockwood**, **Chihiro Morishima**, **Dan Sabath**, **Karen Tsuchiya**, and **David Wu** have been promoted to professor.

Dr. **Erin Rudzinski** has been promoted to clinical professor.

Drs. **Susan Fink**, **Eric Konnick**, **Alex Mendenhall**, **Kelly Stevens**, and **Jessica Young** have been promoted to associate professor.

Dr. **Min Shi** has been promoted to research associate professor.

Dr. **Natasha Meissner-Pearson** has been promoted to clinical assistant professor.

FACULTY ARRIVALS

Between January and June 2022, we welcomed Drs. **Alireza Torabi** (Associate Professor), **Shabnam Salimi** (Acting Instructor), **Nikki Gentile** (Assistant Professor) to the Department!

Check out our [faculty directory](#) for bios and publications!

PUBLICATIONS AND OTHER SCIENTIFIC NEWS

Dr. **Kikkeri N. Naresh** is the co-author for "[100,000 Genomes Pilot on Rare-Disease Diagnosis in Health Care - Preliminary Report](#)" in *N Engl J Med* and is the lead author for "[A refined approach to the diagnosis of Burkitt lymphoma in a resource-poor setting](#)" in *Histopathology*. He co-authored "[Parallel evolution of two distinct lymphoid proliferations in clonal haematopoiesis](#)" in *Histopathology* and "[Systems medicine dissection of chr1q-amp reveals a novel PBX1-FOXM1 axis for targeted therapy in multiple myeloma](#)" in *Blood*. Dr. Naresh also co-authored "[Report of a Case with Clinical and Pathologic Features of Castleman Disease That Predates Castleman's Report by More Than 50 Years](#)" in *Archives of Pathology & Laboratory Medicine*. Dr. Naresh is the senior author of "[CD5+ Gamma Delta T-Cell Lymphoproliferative Disorder/Lymphoma Without Cytotoxic Granules in the Skin](#)" in *The American Journal of Dermatopathology*. Other DLMP authors include Drs. **Jennifer Ju** and **Michi Shinohara**. Dr. Naresh co-authored "[Variant histology in nodular lymphocyte predominant Hodgkin lymphoma in an adult population: disease investigations and characteristics from a retrospective cohort](#)" in the *Journal of Clinical Pathology*.

Dr. **Jose Mantilla** is the senior author for "[Fédération Nationale Des Centres de Lutte Contre Le Cancer \(FNCLCC\) Grading, Margin Status and Tumor Location Associate With Survival Outcomes in Malignant Peripheral Nerve Sheath Tumors](#)" in the *American Journal of Clinical Oncology*. Other DLMP authors include Drs. **Anshu Bandhlish** and **Robert Ricciotti**.

Dr. **Jessica Young** is the senior author for "[The role of Alzheimer's disease risk genes in endolysosomal pathways](#)" in *Neurobiology of Disease*. Other DLMP authors include **Marcell Szabo**, **Swati Mishra**, and **Allison Knupp**.

Drs. **Hamilton Tsang**, **Joshua Lieberman**, **Theresa Nester**, **Elizabeth Staley**, and **Lori Bourassa** as well as **Brooke Emrich** co-authored "[Coping With COVID-19: Emerging Medical Student Clinical Pathology Education in the Pacific Northwest in the Face of a Global Pandemic](#)" in the *American Journal of Clinical Pathology*.

Drs. **Hamilton Tsang**, **Terry Gernsheimer**, and **John Hess** co-authored "[Accidental massive platelet](#)

[transfusion](#)" in *Transfusion*.

NIH R01 "International Registry of Werner Syndrome" (MPI **George M. Martin/Junko Oshima**) was renewed through 2027. The Werner Registry welcomes the submission of accelerated aging syndrome patients from all over the world including UW. Visit wernersyndrome.org for more info.

Dr. **Stephen Polyak** is the senior author of "[Drug Combinations as a First Line of Defense against Coronaviruses and Other Emerging Viruses](#)" in *mBio*. He is a co-author of "[Response of Human Liver Tissue to Innate Immune Stimuli](#)" in *Frontiers in Immunology*. Other DLMP authors include Drs. **Xia Wu**, **Allison Knupp**, **Alex Greninger**, **Camtu Truong**, **David Koelle**, **Keith Jerome**, and **Nick Crispe**, as well as **Jessica Roberto** and **Nicole Hollingshead**.

Drs. **Scott Kennedy** and **Monica Sanchez-Contreras** co-authored "[The Complicated Nature of Somatic mtDNA Mutations in Aging](#)" in *Frontiers in Aging*.

Drs. **Hamilton Tsang**, **Joshua Lieberman**, and **Rida Hasan** published "[The Transfusion Service Laboratory in Virtual Reality](#)" in *Transfusion*.

Drs. **Xueyan Chen**, **Jonathan Fromm**, and **Kikkeri N. Naresh** published "[Blasts' in myeloid neoplasms – how do we define blasts and how do we incorporate them into diagnostic schema moving forward?](#)" in *Leukemia*.

Dr. **Bernard Khor** co-authored "[Deep immune phenotyping reveals similarities between aging, Down syndrome, and autoimmunity](#)" in *Science Translational Medicine*.

Dr. **Behzad Najafian** co-authored "[Structural Lesions on Kidney Biopsy in Youth-Onset and Adult-Onset Type 2 Diabetes](#)" in *Diabetes Care*. Dr. Najafian is the first and corresponding author of "[A novel unbiased method reveals progressive podocyte globotriaosylceramide accumulation and loss with age in females with Fabry Disease](#)" in *Kidney International*. Other DLMP authors include **Aurelio Silvestroni** and **Alexey Sokolovskiy**.

Dr. **P.J. Cimino** is the senior author for "[Machine learning modeling of genome-wide copy number alteration signatures reliably predicts IDH mutational status in adult diffuse glioma](#)" in *Acta Neuropathologica Communications* and a co-author for "[Central Nervous System Tumours](#)", WHO Classification of Tumours, 5th Edition, Volume 6. The Cimino Lab is a collaborator for "[Astrocytic laminin-211 drives disseminated breast tumor cell dormancy in brain](#)" in *Nature Cancer* and

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["Oncogenic role of a developmentally regulated NTRK2 splice variant"](#) in *bioRxiv* (which also includes DLMP authors Drs. **Keith Loeb** and **Michael Haffner**. Drs. **Rebecca Yoda** and **P.J. Cimino** co-authored ["WHO Grading of Gliomas"](#) in *Pathology Outlines*.

Drs. **Darrian Bugg** and **Jennifer Davis** co-authored ["MBNL1 drives dynamic transitions between fibroblasts and myofibroblasts in cardiac wound healing"](#) in *Cell Stem Cell*.

Dr. **Jia Zhu** co-authored ["Highly Sensitive Immuno-resistive Sensor for Point-Of-Care Screening for COVID-19"](#) in *Biosensors*.

Dr. **Maria Tretiakova** authored ["Chameleon TFE3-translocation RCC and How Gene Partners Can Change Morphology: Accurate Diagnosis Using Contemporary Modalities"](#) in *Advances in Anatomic Pathology*.

Recent publications from Transfusion Medicine Faculty:

- [Status of hospital-based blood transfusion services in low-income and middle-income countries: a cross-sectional international survey](#). Barnes LS, Stanely J, Bloch EM, **Pagano MB** et al. *BMJ Open* 2022.
- [The transfusion service laboratory in virtual reality](#) **Tsang HC**, Truong J, Morse RJ, **Hasan RA**, Lieberman JA. *Transfusion* 2022.
- [International Society of Blood Transfusion survey of experiences of blood banks and transfusion services during the COVID-19 pandemic](#). Arwa Al Riyami, **Tsang HC** et al. *Vox Sang* 2022.
- [Incorporating the entity of under-transfusion into hemovigilance monitoring: Documenting cases due to lack of inventory](#) Rajbhandary S, **Tsang HC**, et al. *Transfusion* 2022.
- [Advances in hemorrhage control resuscitation](#). Muldowney M, Aichholz P, Nathwani R, Stansbury LG, **Hess JR**, Vavilala MS. *Curr Opin Anaesthesiol* 2022.
- [Providing whole blood for an urban paramedical ambulance system](#). Sayre MR, Yang BY, Murphy DL, Counts CR, Dang M, Ubaldi P, Tuott EE, **Hess JR**. *Transfusion* 2022.

Dr. **Caitlin Latimer** is the lead author of ["TDP-43 promotes tau accumulation and selective neurotoxicity in bigenic *C. elegans*"](#) in *Disease Models & Mechanisms*. Other DLMP authors include Drs. **C. Dirk Keene** and **Brian Kraemer**.

Drs. **Matt Kaeberlein** and **Daniel Promislow** published ["An open science study of ageing in companion dogs"](#) in *Nature*.

Dr. **Shreeram Akilesh** is a senior/corresponding author

of ["Serum Protein Exposure Activates a Core Regulatory Program Driving Human Proximal Tubule Injury"](#) in the *Journal of the American Society of Nephrology*. Other DLMP authors include Dr. **Selvaraj Muthusamy** and **Mohamed Adil**.

Drs. **Shreeram Akilesh** and **Kelly Smith** are corresponding authors of ["Digital Spatial Profiling of Collapsing Glomerulopathy"](#) in *Kidney International*. Other DLMP authors include Drs. **Charles Alpers** and **Roberto Nicosia**.

Dr. **Rosana Risques** is the senior author for ["Colorectal cancer is associated with the presence of cancer driver mutations in normal colon"](#) in *Cancer Research*. Other DLMP authors include Dr. **Sean Gui**, **Brendan Kohn**, and **Jeanne Fredrickson**.

Two new Murphy Laboratory papers were accepted in the *American Journal of Tropical Medicine and Hygiene*. Pathobiology student **Felicia Watson** was the first author on a vaccine-oriented paper entitled ["Cryopreserved Sporozoites with and without the Glycolipid Adjuvant 7DW8-5 Protect in Prime-and-Trap Malaria Vaccination."](#) Former undergraduate student **Jokichi Matsubara** and scientist **Ming Chang** authored a diagnostic paper entitled "Flow cytometric sorting of infected erythrocytes demonstrates reliable detection of individual ring-stage *Plasmodium falciparum* parasites by *Plasmodium* 18S rRNA reverse transcription PCR" (accepted).

The Young Lab published ["The Alzheimer's gene SORL1 is a regulator of endosomal traffic and recycling in human neurons"](#) in *Cellular and Molecular Life Sciences*. DLMP authors include **Swati Mishra**, **Allison Knupp**, **Marcell P. Szabo**, **Charles A. Williams**, **Chizuru Kinoshita**, **Dale W. Hailey**, and Dr. **Jessica E. Young**.

Dr. **Marshall Horwitz** is the senior author of ["Simultaneous brain cell type and lineage determined by scRNA-seq reveals stereotyped cortical development"](#) in *Cell Systems*. **Donovan J. Anderson** from DLMP is the lead author.

Drs. **Bicong (Crane) Wu** and **Matthew Yeh** published a chapter of ["Pathology of Hepatitis B Virus \(HBV\) Infection and HBV-Related Hepatocellular Carcinoma"](#) in the book *Hepatitis B Virus and Liver Disease* (Editor: Kao JH), 2nd Edition, *Springer*.

Drs. **Dustin Bosch** (DLMP GI & Hepatic fellow, 2020-2021), **Paul Swanson**, and **Matthew Yeh** published ["Centrizonal hepatocyte dropout in allograft liver biopsies: a clinicopathological study"](#) in *Histopathology*.

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Dr. **Matthew Yeh** and former DLMP member **Yongjun Liu** published "[Subtyping of hepatocellular adenoma: a machine learning-based approach](#)" in *Virchows Arch*.

Drs. **Dustin Bosch**, **Stephen Salipante**, **Rodney Schmidt**, **Paul Swanson**, **Andrew Bryan**, **Dhruba SenGupta**, **Camtu Truong**, and **Matthew Yeh** published "[Neutrophilic inflammation in gallbladder carcinoma correlates with patient survival: A case-control study](#)" in *Ann Diagn Pathol*.

Dr. **Peter Rabinovitch** is the senior author of "[Age-related disruption of the proteome and acetylome in mouse hearts is associated with loss of function and attenuated by elamipretide \(SS-31\) and nicotinamide mononucleotide \(NMN\) treatment](#)" in *Geroscience*. Other DLMP authors include **Jeanne Fredrickson**, **Elena Latorre-Esteves**, Dr. **Alessandro Bitto**, and **Michael J MacCoss**.

JUSTICE, DIVERSITY, EQUITY, AND INCLUSION (JEDI)

The Justice, Equity, Diversity, and Inclusion (JEDI) Committee is pleased to announce a new award to recognize DLMP colleagues for their outstanding contributions and service towards our mission of promoting justice, equity, diversity, and inclusion in the DLMP. Congratulations to the following individuals and team for 2022: **Joe Bernal** (Staff), **Lindsey Durowoju** (Resident), **Kelly Stevens** (Assistant Professor), **Emily Glynn** (Assistant Professor), **William Mahoney** (Associate Professor), and the Genetics Counselors team (**Emily Malouf**, **Jenna Huey**, **Sandy Coe**, **Jailanie Kaganovsky**, **Sajida Hassan**, **Nandana Rao**, and **Kristine King**).

Dr. **Byron Joyner**'s Laboratory Medicine Grand Rounds presentation "[Equity, Diversity & Inclusion: The ACGME Mandate and Hopeful Solutions](#)" is available online.

Dr. **Nicole Jackson**'s Pathology Grand Rounds presentation "[Dreams Deferred from Delayed Equity - a Lecture Honoring Juneteenth](#)" is available online.

The 2021-2022 Diversity and Equity Grant was awarded to Dr. **Suzanne Dintzis** for her proposal "Bystander response to racial microaggression: Evaluating the reliability of a novel smartphone-based tool for physicians." Dr. Dintzis' proposal aims to reduce microaggressions in healthcare by developing a video-based communication assessment tool to evaluate and activate the effective intervention of bystanders. This work will help identify gaps in allyship training and will lead to the development of an educational tool that could be shared across institutions and health professions. Congratulations to Dr. Dintzis and her team!

[Listen to Inside the Lab S2Ep8](#): "The Intersection of Wellness and Diversity, Equity & Inclusion" with Professor Emeritus Melissa Upton, MD, FASCP.

Assistant Teaching Professor **Max Louzon** gave a virtual presentation and led a hands-on activity for Medical Laboratory Science with the UW Dare to Dream Health Sciences Academy for WA State high school students from migrant communities in June.

Dr. **Mariya Sweetwyne** will be hosting a lab tour and hands-on activity for Pathology with the UW Women's Center Making Connections Program for BIPOC high school students in July.

Dr. **Susan Fink** is hosting a student from the Stipends for Training Aspiring Researchers (STAR) Program.

The DLMP residency program launched a new health equity curriculum for all our post-graduate clinical trainees in April. The goal of the curriculum is to equip leaders in laboratory medicine and pathology with the knowledge and skills to understand, critique, and disrupt the inequities and injustices within our society, health systems, and specialty that contribute to health disparities. The series was composed of nine sessions (10 total hours of content) led by DLMP faculty and invited extradepartmental speakers and included a mix of small group discussion-based activities and more traditional lectures addressing the intersection of health disparities and pathology.

[Learn more about our mission and goals on our webpage!](#)

NEW ENDOWMENT

I am honored to have the opportunity to announce a new endowment to the Department of Laboratory Medicine and Pathology, made by former resident Dr. **Richard Mertens**, MD, PhD (1979-1983), in honor of Dr. **Bruce Beckwith**. The **J. Bruce Beckwith Award in Pathology** will be given out yearly to an anatomic pathology trainee (resident or fellow) who carries out distinguished research during the prior year. Dr. Mertens has also made a substantial donation in support of our clinical training programs.

Dr. Mertens is a pathologist at Cedars-Sinai in Los Angeles, and I asked him to share his biography and motivation for endowing this award. Dr. Mertens wrote:

"After receiving my MD and PhD degrees (in Physiology and Pharmacology) at the University of California at San Diego in 1979, I pursued residency training in Anatomic and Clinical Pathology at the University of Washington from 1979 to 1983. During my four years in Seattle, I developed a strong attachment to the city and its surrounding environment (and a tolerance for the weather), and I look back at those years with great fondness, including my appreciation for the friendships made with fellow residents and faculty. Following two years of fellowship training in Anatomic Pathology at Cedars-Sinai Medical Center in Los Angeles, I became a member of the Department of Pathology and Laboratory Medicine at Cedars-Sinai, where I remain today.

"In addition to my primary diagnostic responsibilities in surgical pathology (with an emphasis on gastrointestinal pathology), I have been actively involved in teaching pathology residents as well as participating in various research activities. My residency training at the University of Washington and affiliated hospitals (such as Swedish Hospital and Children's Hospital) prepared me well for my career as a surgical pathologist. As I near the end of my career as a practicing pathologist, I am motivated to give back in a significant way to those institutions that helped provide me with the skills needed to be successful in my chosen career.

"In donating to the Department of Laboratory Medicine and Pathology at the University of Washington, I also viewed this as an opportunity to honor a particular faculty member who served as an inspirational role model during my residency training. To this end, a portion of my donation will honor Dr. Bruce Beckwith, who served as the Director of Pathology at Children's Hospital in Seattle from 1964 to 1985, by creating an annual research award in his name, in recognition

of his significant contributions to pathology (in areas such as Wilms tumor research and sudden infant death syndrome), his skills as a diagnostician, and his esteemed role as an educator and mentor to numerous pathology residents who had the good fortune to train with him during his years in Seattle. The J. Bruce Beckwith Award in Pathology will recognize outstanding research by residents and fellows in pathology. The remainder of my donation to the Department of Laboratory Medicine and Pathology will provide broad-based support for the department's residency program.

"I have derived a great deal of personal satisfaction from making these donations to the University of Washington, and I am grateful for the support that I have received from the University to facilitate the donation process. I look forward to being able to follow the news of the naming of future annual recipients of the research awards and to also hear of other future benefits of these donations to the Department of Laboratory Medicine and Pathology, in support of the residency program."

Once again, I would like to thank Dr. Mertens for this generous gift. As a former resident, former associate residency program director, and current fellowship co-director, I am fully aware of the importance and quality of our training programs, and I am immensely grateful to Dr. Mertens for his gift in honor of these programs.

Sincerely,
Geoff Baird

Note: Dr. Mertens shared his above quoted comments regarding this endowment with Dr. Baird in December, 2021. Dr. Mertens has since retired from active practice at Cedars-Sinai, though he still remains engaged in research activities.



CONGRATULATIONS GRADUATES!

Molecular Medicine and Mechanisms of Disease (M3D) PhD Program

Arianna Gomez, Louisa Helms, and Sophie Sichel

MS in Laboratory Medicine and Pathology Program

Khawlah Almalki, Chia-Chen Joyce Ho, Claire Tang, and Xin Ray Tee

Medical Laboratory Science Undergraduate Program

Hylah Arriaga, Amanda Callery, Raph Cornejo, Miguel Delgado, Mary Dudziak, Makenna Edwards, Amanda Fung, Vanessa Grone, Hanna Hess, Cing-Yu (Michelle) Hsu, Alagie Jobarteh, Anh (Amy) Khong, Susan Kimani, Shannon Lengele, Abigail Lien, Finn MacLean, Thomas (Gus) Meloy, Jessica Mullenberg, Mufaddal (Muffy) Naguthanawala, Dong Nguyen, Tina Ni, Fartun Sheygo, Stephanie Smith, April Suarez, Denise Tong, Tran Tran, Dinh Thieu Nhien (Vanessa) Tran, Winnie Tran, Fu Wei (Vanessa) Yang, and Kacie Yokoro.

Medical Scientist Training Program (MSTP)

Karina Diaz, Alec Gibson, Ted Gobillot, Eli Grunblatt, and Nicholas Hasle

Residents

Marie K. Das, Trent L. Irwin, James P. Malleis, and Riley A. O'Hara

ACGME Fellows

Joel Addams, Jatin Gandhi, David Wells, Christopher M. Chandler, Rebecca A. Yoda, Mugahed Hamza, Nicole Croom, Jordan Taylor, Angelica Lerma, Peter Dromparis Jennifer Ju, Alicia Henao Velasquez, Ryan J. Morse, Regina Kwon, Heather L. Maioli, David Henriquez Ticas, Daniel Reiter, Joanne M. Ang, and Shahad Abdulameer

Non-ACGME Fellows

Elizabeth M. Garrett and Alexandria Reinhart

Post-Sophomore Fellows

Jenny Jensen and L'Oreal Kennedy

ACADEMIC PROGRAMS

We are committed to the academic mission of the University of Washington and UW Medicine by providing comprehensive and innovative educational opportunities to developing medical practitioners and bioclinical researchers. [Learn more about our Academic programs.](#)



UPCOMING EVENTS

Check the [DLMP events calendar](#) for the latest information about our Lab Medicine Grand Rounds, Pathology Grand Rounds, Pathology Presents, and Lab Medicine Research Conferences. Click "Subscribe" to sign up for a weekly reminder email and/or click on an individual event to download the information to your calendar.

[Medical Laboratory Science \(MLS\) Undergraduate Program](#) has upcoming information sessions on Oct 4, Nov 1, Dec 6, Jan 3, and Feb 7 at 4pm PT. The sessions will include details about the application process, major, and career options. [Registration required; sign up for a session today.](#) The deadline to apply to the MLS Undergraduate Program is February 15.

ABOUT DLMP

On July 1, 2020, the Departments of Laboratory Medicine and Pathology merged to form the Department of Laboratory Medicine and Pathology. A regional resource for clinical laboratory services required for innovative patient care, research and educational programs, we combine the sophisticated testing and informatics capabilities of fully accredited laboratories with the resources of an academic institution in its delivery of clinical and anatomical pathology services. Recognized for excellence in clinical training, world-class research initiatives, and a commitment to community service, we serve the five-state WWAMI region: WA, WY, AK, MT, and ID.

Learn more about DLMP at dlmp.uw.edu

WORK WITH US!

There are many clinical, research, and administration job opportunities available in the Department of Laboratory Medicine & Pathology! To apply for open positions, visit the [UW Jobs website](#), click "Find a Job" and use category: Healthcare - Laboratory Medicine.

Looking for academic positions? [Find the most updated list on UW's Academic Jobs page.](#)

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The DLMP Newsletter is an in-house newsletter published on a semi-annual basis to highlight the activities of the University of Washington School of Medicine Department of Laboratory Medicine and Pathology. It is distributed to the Department and friends of the Department.

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