Pathology News

AUGUST 4, 2020

Chair's Blog

Dear Colleagues:

As I am dictating this blog-message to you, I looked out of curiosity for the tone and the content of the message that I sent about the same season last year. I have to say that, though the feelings are the same, the atmosphere of the current season is quite different. All of us have now adapted to the remote virtuality of conferences and seminars. Zoom and Microsoft Teams have become part of the reality of our life. I hope that this is not a natural selection process that will eventually turn us all into "Zoombies". I do believe that the face-to-face gatherings will never be fully substituted by the virtual reality meetings on computer screens, but I am afraid that the virtual reality has acquired a niche in our communications that will linger long as a gathering "alternative" into the future.

Despite the new world of the virtual contact, (our protective umbrella towards "the virus"), our department continues to deliver its mission. As I am preparing to have a discussion about our department with our new Dean, Dr. Shekhar, I was pleasantly surprised to find out how highly we are rated by entities that normally do not rate departments of Pathology. I looked into Doximity, and Schools.com (an entity I had never heard of before). Our residency programs are very highly rated by Doximity. Schools.com provides rankings for all types of departments in all medical schools in the US. It lists the our department of Pathology as number five in the country (http://www.pathologyschools.com/top_school_rankings/).

These are among the many items related to our department that we should be feeling proud about. In addition, we should be feeling proud about the depth of the collaboration between our laboratories in so many hospitals; the intense dedication and commitment of the administrative and the technical staff working in our laboratories both in anatomic pathology and laboratory medicine; also proud of all the people who work hard to support the infrastructure of pathology laboratories and who are often unrecognized as they go silently through their daily routine.

Much as we have become adapted to wearing masks and turning into Zoombies for our meetings, I am looking forward to returning to what used to be normalcy of the past, a past not very far away from today and I hope that this will come back soon sometime tomorrow.

I wish you all the best of what's left of the summer and looking forward to get back to a more normal situation sometime in 2021.

George K. Michalopoulos, M.D., Ph.D.

"What good is the warmth of summer, without the cold of winter to give it sweetness."

John Steinbeck
American Author
1902-1968

University of Pittsburgh will be OPEN
Labor Day. Monday, September 7 and
Monday, November 30. 2020

Grants Administration

Andew Duncan, Ph.D.
R01 grant renewal: Mechanisms of Polyploidy and Aneuploidy in the Liver
04/01/2020–01/31/2024
PI: Andrew Duncan
Co-I: Joe Locker and Paul Monga

Anette Duensing, M.D.

- UPMC Hillman Cancer Center Development Funds (Principal Investigator)
  "Dissecting DNA damage and repair pathways in leiomyosarcomas: Improving therapy by understanding biology." 2020

- Shadyside Hospital Foundation (Principal Investigator)
  "The role of retinoic acid signaling in regulating the malignant phenotype of IDH-mutant chondrosarcomas." 2020

Clinical Trial:

- "Longitudinal assessment of cognitive impairment in GIST patients on tyrosine kinase inhibitor therapy." (HCC# 20-027; in collaboration with Drs. Robert Ferguson and Melissa Burgess, UPMC Hillman Cancer Center/University of Pittsburgh, Hematology/Oncology) 2020

Alecia Kaplan, M.D.

Primary investigator on ReCePI clinical trial using pathogen inactivated RBCs in cardio-thoracic surgery patients, continue to enroll with 8 patients enrolled and 3 transfused to date.

Co-Investigator on Clinical Trial of COVID-19 Convalescent Plasma in Outpatients (C3PO), target date for enrollment August 2020.

Charleen Chu, M.D., Ph.D.
Britney Lizama (Sponsor: Charleen Chu). F32 AG069343. PINK1 protects neurons against mutant Tau pathology

WELCOME NEW FACULTY

Brian Enloe, M.D., Ph.D. has joined the Department as a Clinical Assistant Professor at St. Margaret's Hospital effective July 1, 2020. Dr. Enloe was at the University Hospitals in Cleveland. He is Board certified in Anatomic and Clinical Pathology.

Ana Maria Gomez, M.D., has joined the Department of Pathology at Children's Hospital as a Assistant Professor January, 2020. Dr. Gomez was previously at the Cook Children's Medical Center in Fort Worth, Texas. She is board certified in Anatomic and Clinical Pathology as well as Pediatric Pathology.

Samer N. Khader, M.D., has joined the Department as a Professor of Pathology at Shadyside Hospital and Director of Cytopathology. Dr. Khader comes from Montefiore Medical Center in New York. He is board certified in Anatomic and Clinical Pathology as well as Cytopathology.

Sigfried B. Lajara, M.D. has accepted the position as an Assistant Professor at Shadyside Hospital. She has just finished a cytopathology fellowship at UPMC. She is board certified in Anatomic and Clinical Pathology.

Rana Naous, M.D. has joined the Department as an Assistant Professor at Shadyside. She was at SUNY Upstate Medical University in Syracuse. She is board certified in Anatomic and Clinical Pathology, as well as Cytopathology and Hematopathology.

Thomas Pearce, M.D., Ph.D., has accepted a position as Assistant Professor of Pathology in the Division of Neuropathology. He just finished a fellowship in neuropathology at UPMC. He was also trained at UPMC and was the PIRRT fellow in the department from 2014-2018.

Claudia M. Salgado, M.D. has joined the Department of Pathology at Children's Hospital as an Assistant Professor. She has just completed a Pediatric Fellowship at Children's Hospital. She was also trained at UPMC completing a residency in Anatomic and Clinical Pathology in 2019.

Thing Rinda Soong, M.D., Ph.D., M.P.H., will join the Department of Pathology at Magee Womens Hospital As an Assistant Professor August 15, 2020. She is currently at the University of Washington in Seattle,Washington. She is Board certified in Anatomic and Clinical Pathology.

Qian Wang, M.D. has joined the Department at Children's Hospital as an Assistant Professor of Pathology. She has just finished a fellowship in cytopathology at New York University Langone Health in New York. She is board certified in Anatomic and Clinical Pathology as well as Pediatric Pathology.

Tatiana M. Villatoro, M.D. has joined the Department at Magee Womens Hospital as an Assistant Professor July 1, 2020. She has just finished a Surgical Pathology fellowship at UPMC. She is Board certified in Anatomic and Clinical Pathology.

Departing and Retiring Faculty

Robert Austin, M.D. retired
Daniel Chung, M.D. resigned
Amy Davis, M.D. resigned
Mohamed El Hag, M.D., resigned
Jihong Ma, Ph.D. resigned
Virgina Miller, M.D., resigned
Sara Monaco, M.D., resigned
Geoffrey Murdoch, M.D., retired
Liron Pantanowitz, M.D., Ph.D. resigned (moved to Adjunct)
William Pasculle, Sc.D., retired
Somak Roy, M.D. resigned
Dong Zhou, Ph.D. resigned
Jian-Hui Zhu, Ph.D., resigned

Changing of the Division of Neuropathology Guard

The academic year 2019-2020 has seen many changes in Neuropathology, fortunately none of them related to COVID.

Out with the old:

We have had two faculty retirements. **Dr. Ronald Hamilton** retired in April 2019 after 25 years of service. Ron was a well-known and beloved faculty member who distinguished himself in many ways including being awarded the Anatomical Pathology Teacher of the Year, seven years in a row, culminating in a UPMC ACES award in 2003. Ron was an active researcher with ~200 peer reviewed publications. He also served as the Editor of the Case of the Month section for Brain Pathology, the official journal of the International Society of Neuropathology. Ron's research interest covered the gamut of neuropathology but most specifically neuro-oncology and neurodegeneration.

Dr. Geoff Murdoch retired June 30, 2020 after 17 years of service. Geoff has been an incredible resource for the Department and Institution as a whole. He bridged numerous basic and clinical science fields and we all profited from his insights and inputs to our clinical and research projects. Seldom does a Departmental seminar end without Geoff raising his hand and asking a key question to launch a productive area of investigation. The absence of Geoff's perspective is a huge loss to our Department. From our Division perspective, we hope to keep Geoff engaged in our clinical, teaching and research to help provide a cutting edge to our multiple missions.

In with the new:

With the loss of all that talent, we were incredibly fortunate to recruit four excellent faculty and fellows to, in part, replace those we had lost. **Dr. Scott Kulich** joined the Neuropathology faculty in July 2019. Scott is of course well known and liked by everyone in the Department. After graduating from the Medical College of Wisconsin, Scott completed his AP/NP/CP training at UPMC. He then went on to the VA where he became the Chief of everything from Pathology, to Neuropathology to Microbiology. Scott fills a key niche in our clinical service. We were indeed lucky to attract someone with his depth and breadth of experience to fill a critical void with Geoff and Ron's departure.

To fill out the faculty ranks we were fortunate to recruit **Dr. Tom Pearce** as our newest Assistant Professor. Tom completed his MD/PhD training at Washington University before matriculating to our AP/NP/PIRRT programs. Tom has a huge and complex skill set that even during his residency and fellowship training, he was able to apply to solve several existing Departmental structural problems. Tom is applying for KO8 support with the mentorship of Dr. Julia Kofler and has a highly promising career as a physician scientist.

Lastly for 2020-2022 we landed two phenomenal fellows **Dr. Osorio Lopez and Dr. Wen Zhong**. Osorio is a fully trained neurologist who completed his AP training at NIH. He has diverse interests in neurological disease and a solid future as an academic neuropathologist. Wen completed her AP/CP training at East Carolina University. She has an excellent background in infectious disease and trauma so will be a splendid fit with our research and clinical missions.

So a year of transitions, for all of which we are incredibly proud.

Clayton Wiley, M.D., Ph.D.

Promotions:

Aatur Singhi, M.D., promoted to Associate Professor
Anette Duensing, M.D., promoted to Associate Professor

Faculty Highlights

Nidhi Aggarwal, M.D. promoted to Director, Molecular hemato-oncology services, Division of Molecular and Genomics Pathology, Department of Pathology, UPMC (November 2019).

Charleen T. Chu, M.D., Ph.D. received the 2020 ASIP Robbins Distinguished Educator Award.

Jeffrey Fine, M.D.

Tosun A.B., Pullara F., Becich M.J., Taylor D.L., Chennubhotla S.C., **Fine J.L.** (2020) HistoMapr™: An Explainable AI (xAI) Platform for Computational Pathology Solutions. In: Holzinger A., Goebel R., Mengel M., Müller H. (eds) Artificial Intelligence and Machine Learning for Digital Pathology. Lecture Notes in Computer Science, vol 12090. Springer, Cham. https://doi.org/10.1007/978-3-030-50402-1_13 (published 6/24/2020)

Alecia Kaplan, M.D.

participated at Blood Administration & Blood Reaction Scenario Development for UPMC Nursing System for incoming nurses. We collaborate with WISER center to develop training material for on-boarding for all new nursing staff.

George K. Michalopoulos, M.D., Ph.D, elected member of the National Academy of Greece.

Dr. Reyes-Múgica was appointed "Expert Editor" for the WHO volume on Classification of Paediatric Turmours, which is under preparation.

Dr. Cláudia Salgado was awarded the "*Harry B. Neustein*" prize for her paper "**Salgado CM,** Alaggio R, Locatelli F, Camassei F, Bisogno G, Reyes-Múgica M, Miele E. DNA Methylation and Copy Number Profiling of Pediatric Tumors with BCOR ITD." SPP Spring meeting, February 28 to 1st of March, 2020. Los Angeles, CA.

Parmjeet Randhawa, M.D.

Service to professional organizations and societies:
Vice-President, Renal Pathology Society
Associate Editor, Clinical Transplantation
Member, NIH Kidney Precision Medicine Project, Ancillary Studies Committee

Clayton Wiley, M.D., Ph.D.

Award for Meritorious Contributions to Neuropathology by the American Association of Neuropathologists.
The *Award for Meritorious Contributions to Neuropathology* recognizes a member who has made significant contributions to the advancement of knowledge in neuropathology and provided service to the American Association of Neuropathologists. Each recipient of the award is nominated by the President, in conjunction with the Nominating Committee and with the approval of the Executive Council. The qualities of outstanding scientific achievement and service are embodied in this year's first recipient, **Dr. Clayton Wiley, MD, PhD.** This presentation took place on Friday, June 12, 2020.

Andriana Zeevi, Ph.D. received the Distinguished Service Professor

SURP AND CMP GRADUATE PROGRAM

From the desk of Dr. Wendy M. Mars ....

CMP and Related News of Note:

This year, despite COVID, 15 NEW students are matriculating to the IBGP in the fall and 13 NEW students already matriculated to the MSTP, so we are ACTIVELY seeking mentors who wish to host a graduate student in their lab next year. The best way to assure that the incoming students know you are interested is to contact Amanda Bytzura (bytzuraam@upmc.edu) or me (wmars@pitt.edu). Also, students often peruse the IBGP project site for rotation projects so be sure to review the projects you have registered at:

https://somgrad.wufoo.com/forms/update-faculty-information/

By the end of the summer semester, six students will have formally graduated (three from the MSTP and three from the IBGP); however, nine students have formally committed to joining CMP (five from the IBGP, four from the MSTP), so our overall numbers will have increased to 26 as of September 1, 2020! This means that CMP continues to remain one of the strongest graduate programs within the University School of Medicine. All three of the MSTP students either have or will return to medical school for their last two years of training. Of the three IBGP students who graduated, one was an MD who went back to China to practice medicine, one is entering PA school, and one went got a job in Pharma.

The numbers of CMP faculty are also rapidly increasing. There have been 13 additions to the faculty in this past academic year. Eight were primary appointments (Drs. Agnihotri, Buckanovich, Ebrahimkhani, Eisele, Kiani, Kaufman, Kohanbash, Moalli) and five (Drs. Burns, Carvunis, Sigal, Tzounopoulos, Villanueva) were faculty affiliated with other graduate programs who elected to cross-affiliate because of research interests that encompass themes in the CMP program. Even though there was some attrition of faculty over the past year, this brings the grand total of our CMP faculty to 88, our largest number yet.

The 2020 Pathology Research Seminar and Retreat was unfortunately cancelled this year due to COVID; however, our keynote speaker, Bernd Schnabl, from UCSD, has graciously agreed to be the keynote speaker at the 2021 retreat. We anticipate that the 2021 retreat will be held on May 26, 2021

The CMP arm of the School of Medicine Summer Undergraduate Research Program (SOM-SURP) and the Klionsky Fellowship program for rising MS2 students, were also unfortunately canceled due to COVID along with most, if not all, University summer programs involving wet labs in the SOM. We anticipate the return of wet lab experiences for both programs next summer.

If you are interested in having issues brought before the CMP committee, please share them with our CMP administrator, Amanda Bytzura (bytzuraam@upmc.edu), or me (wmars@pitt.edu). Also, please continue to make me aware of any outstanding faculty members who are not currently members of CMP but who would be eligible and have a possible interest in joining our program.

Thanks so much!

Wendy M. Mars, Ph.D.
Director, Pathology SURP and CMP graduate program

From the desk of Dr. Marie DeFrances

Residency Program:

New PGY-1 Class – July 2020

Six new residents have been recruited.

Robert Bubar, MD – USF Health Morsani College of Medicine
Katherine Killian, DO – Lincoln Memorial University-DeBusk College of Osteopathic Medicine
Azfar Neyaz, MD – Sanjay Gandhi Postgraduate Institute of Medical Sciences, India
Simmi Patel, MD – St. George's University School of Medicine, Grenada
Pranav Patwardhan, MD – Seth G.S. Medical College, India
Gabriel Sexton, MD – University of South Dakota, Sanford School of Medicine

Fellowship Program:

Fellows – July 2020

Five fellows have been recruited from outside programs together with seven internal candidates.

Shweta Bhavsar, MD (MGP) – UPMC – AP/CP residency
Eric Carlsen, MD, PhD (Heme) – UPMC – AP/CP residency
Vanya Jaitly, MD (Heme) – UPMC – AP/CP residency
Bruce Leckey, DO (BST) – Duke University – AP/CP residency
Osorio Lopes Abath Neto, MD (NP) – National Cancer Institute, National Institute of Health – AP residency
Daniel Marker, MD, PhD (NP) – UPMC – AP/CP residency
Mario Saab Chalhoub, MD (Cyto) – Vanderbilt University Medical Center – AP/CP residency
Swati Satturwar, MD (GU) – Pitt County Memorial Hospital, East Carolina University – AP/CP residency
John Skaugen, MD (MGP) – UPMC – AP/CP residency
Mamie Thant, MD (BB) – UPMC – Internal Medicine residency
Swikrity Upadhyay Baskota, MD (Cyto) – UPMC – AP/CP residency
Wen Zhong, MD (NP) – East Carolina University/Vidant Medical Center – AP/CP residency

Clinical Instructors – July 2020

Five clinical instructors have also been recruited.

Wei Chen, MD (GI) – University Hospitals Cleveland Medical Center – AP/CP residency
Lakshmi Harinath, MD (GYN/Breast) – Allegheny General Hospital – AP/CP residency
Evgeny Ozhegov, MD (GYN/Breast) – Mount Sinai Hospital/Icahn School of Medicine at Mount Sinai Medical Center – AP/CP residency
Roshan Raza, MD (GI) – Mount Sinai St. Luke's Roosevelt Hospital Center – AP/CP residency
Alexander Strait, MD (GYN/Breast) – Dartmouth-Hitchcock Medical Center – AP/CP residency

Division of Experimental Pathology News

The Division of Experimental Pathology has remained very productive despite the circumstances surrounding the current pandemic. We are excited to announce the addition of our new division coordinator, **Mr. Amtoj (AJ) Singh**. AJ will be working with Dr. Monga to facilitate all activities within the division, such as arranging our meetings, coordinating the annual faculty performance evaluations, providing the division with important announcements and other communications, and several other important tasks. AJ will be working in S414 BST. Please feel free to stop by and welcome him to our team!

We are also excited to welcome **Alina Ostrowska, PhD** to the Division of Experimental Pathology. Dr. Ostrowska has been working with Dr. Ira Fox in the Department of Surgery, and has extensive experience in the areas of isolation and function of human liver cells, liver regeneration and biology. She will be working primarily on the new Human Synthetic Liver Biology Core of the Pittsburgh Liver Research Center (PLRC).

Dr. Alejandro Soto-Gutierrez will be the director of the new core, which will offer services to PLRC members in the areas of next generation of a variety of human hepatic tissue formats that incorporate state-of-the-art technologies such as human major liver cell types from diseased livers, induced pluripotent stem cells, gene edited human iPS cells, human iPS cells with synthetic systems to control gene expression and functions, and human micro or mini liver tissues derived from the described cell sources.

Dr. Jorge Guzman-Lepe, current Research Assistant Professor in the Division of Experimental Pathology, will also be transitioning into a role that will work primarily for the new Human Synthetic Liver Biology Core.

We have recently had some members of the division leave the university to take on new roles. Dr. Jihong Ma, Research Assistant Professor, has taken a new position as a Research Assistant Professor at the University of Colorado, School of Medicine, Department of Medicine and Infectious Diseases.

Dr. Dong Zhou, Research Assistant Professor, has accepted a position as an Assistant Professor at the University of Connecticut.

Dr. Dean Yimlamai, affiliated member of the division and Assistant Professor in the Department of Pediatrics, has accepted a position as an Assistant Professor in the School of Medicine at Yale University.

We wish all of our former division members much success in their new positions and in all of their future endeavors!

Satdarshan Paul Monga, M.D.

Pioneering Advances in Molecular Pathology – Basic and Applied

Pathologist Investigator Residency Research Training Program

The PIRRT program allows Pathology residents and fellows at the University of Pittsburgh to construct individualized research training experiences with the goal of "fast-tracking" to combined diagnostic and independent research faculty positions. Trainees are generally admitted as first year residents, electing to take their research year after PGY1 or PGY2, or before continuing on to diagnostic fellowship training at UPMC. Following integrated PIRRT research and residency training, our alumni have been highly successful in transitioning directly to faculty positions pursuing combined investigational and diagnostic careers.

Pittsburgh Innovation in Collaborative Training of Residents Alliance (PICTOR A StARR program)

A new multidepartmental training grant, in which Drs. Chu, Oury and DeFrances serve as Committee Chairs, has been funded by the National Heart Lung and Blood Institute (NHLBI). Support is available to Pathology residents interested in gaining 1-2 years of full-time research training, with or without prior research experience.

The goal is to train residents in Medicine, Pathology, Pediatrics and Surgery to become clinician-investigators focused in basic or clinical research related to vascular (heart, blood), pulmonary or sleep disorders. All applicants must be US Citizens or Permanent Residents.

Please feel free to contact Dr. Chu or Dr. Oury if you are interested in this program.

We would also welcome any Pathology residents and fellows with interests in other organ systems to contact us as well. There are several funding mechanisms that may be available to support your training.

Charleen T. Chu and Tim Oury
PIRRT Co-Directors
ctc4@pitt.edu
tdoury@pitt.edu

University of Pittsburgh | Pitt United Way Campaign

Campaign Kickoff: Thursday, October 1, 2020

PRESENTATIONS

Nindhi Aggarwal, M.D.

AP grand rounds- Understanding mixed lineage acute leukemias – March 2020

Anette Duensing, M.D.

Pittsburgh Sarcoma Research Collaborative (PSaRC) Symposium, Pittsburgh, PA ("From biology to therapy: Developing novel therapeutic strategies for gastrointestinal stromal tumors (GIST)"). September 6, 2019.

FORTRESS (FORum for Translational RESearch in Sarcomas), Essen, Germany ("Not only good for your skin… Retinol to treat *IDH*-mutant chondrosarcoma"). January 23, 2020.

Webinar, The Life Raft Group ("GIST, TKI treatments and effects on memory"; together with Dr. Robert Ferguson) https://liferaftgroup.org/event/lrg-webcast-series-treatment-effects-memory/. April 7, 2020.

Alecia Kaplan, M.D.

Presented UPMC experience with ReCePI study and participated in the panel discussion since UPMC has been the top enroller for the clinical trial, October 2019, ReCePI Clinical Trial, Investigators' meeting,
Orlando, FL

Parmjeet Randhawa, M.D.

Visiting Professor, and Key Note Speaker, Annual Symposium on Transplant Pathology, Department of Path, University of Illinois, Chicago, IL, December 10th, 2019. Lectured on Hot button issues in the diagnosis and management of polyomavirus BK infection.

Gene expression and transplantation outcomes. The Richard H Johnson Scientific Retreat, The Thomas E Starzl Transplantation Institute, University of Pittsburgh, November 22, 2019.

A glimpse in the life of a pathologist. Franklin Regional High School. May 15, 2019.

Renal TCRseq: T-cell receptor V-beta analytics for immune monitoring and disease classification in renal transplantation. Precision Medicine Initiative for Commercialization (PreMIC)" funding program, Pitt sciVelo, University of Pittsburgh, Feburary 21, 2020.

The Renal Biopsy: Clinical Correlations: Recurrent secondary oxalosis secondary to enteric hyperoxaluria. American Society of Nephrology Meeting, Washington DC, November 9, 2019.

Progress Report on Banff Working Groups: Update on T-cell Mediated Rejection and i-IFTA. American Society for Histocompatibility and Immunogenetics/Banff Joint Scientific Meeting, Pittsburgh, PA, September 24, 2019.

It is not all about antibody mediated rejection: fine tuning of chronic active T-cell mediated rejection: Plenary Session II: Joint Progresses in the diagnosis and treatment of rejection. Amercian Society for Histocompatibility and Immunogenetics/Banff Joint Scientific Meeting, Pittsburgh, PA, September 25, 2019.

Banff 2019 update on the diagnosis of antibody mediated rejection in the renal allograft. Congress of the Asian Society of Transplantation, NOIDA, Uttar Pradesh, India, October 1, 2019.

Polyomavirus BK infection: 2019 Guidelines from the American Society of Transplantation Infectious Disease Community of Practice. Congress of the Asian Society of Transplantation, NOIDA, Uttar Pradesh, India, October 1, 2019.

PRESENTATIONS

Parmjeet Randhawa, M.D. continued

Polyomavirus Infection after kidney transplantation: What does the transplant physician need to know?. International Update on Renal & Transplantation Pathology. Mahipalpur, Haryana, India, Uttar Pradesh, February 15 -16, 2020

The resurgence of acute and chronic active T-cell mediated rejection as a potential player in kidney allograft dysfunction. International Update on Renal & Transplantation Pathology. Mahipalpur, Haryana, India, Uttar Pradesh, February 15 -16, 2020.

Hugo Kaneku-Nagahama and Parmjeet Randhawa: A critical evaluation of Banff 2017 criteria for chronic active T-cell mediated rejection. Amercian Society for Histocompatibility and Immunogenetics/Banff Joint Scientific Meeting, Pittsburgh, PA, September 24, 2019.

Lei Song, Gang Zeng, Fei Fang, Peng Liu, Yang Zhao, George Tsent, *Parmjeet Randhawa*, Kunhong Xiao. Tandem Mass Tags Based Liquid Chromatography/Mass Spectrometry Analysis of Quantitative Proteomic Changes in Renal Allograft Biopsies with Polyomavirus BK Nephropathy. American Transplant Congress, Boston, June 3rd, 2019.

P. Randhawa, F. Fei, Y. Huang, G. Tseng, K. Xiao. Pathogenesis Of Polyomavirus BK Nephropathy (BKVN): Insights From Quantitative Proteomics Profiling. American Transplant Congress, Philadelphia, PA. May 30-June 3, 2020.

P. Randhawa, Y. huang, G. Tseng, K. Xiao. Are Molecular Diagnoses Of Antibody Mediated Rejection (ABMR) Reliable In The Setting Of Antibody-antigen Complex Mediated Tissue Injury Unrelated To Alloimmunity? American Transplant Congress, May 30-June 3, 2020.

PUBLICATIONS

Nidhi Aggarwal, M.D.

Bryan Rea, Robert L. Peel, Min Han, N. Paul Ohori, **Nidhi Aggarwal**. Intravascular Large B-cell Lymphoma Involving Multinodular Goiter and Mimicking Carcinoma. Int J Surg Pathol. 2019 Sep 29:1066896919882121. doi: 10.1177/1066896919882121. [Epub ahead of print]

Emily F. Mason, Robert P. Hasserjian, **Nidhi Aggarwal**, Adam C. Seegmiller, and Olga Pozdnyakova. Blast Phenotype and Co-mutations in Acute Myeloid Leukemia with Mutated *NPM1* Influence Disease Biology and Outcome. Blood Adv. 2019 Nov 12;3(21):3322-3332. doi: 10.1182/bloodadvances.2019000328.

Craig R. Soderquist, Nupam Patel, Vundavalli V. Murty, Shane Betman, **Nidhi Aggarwal**, Ken H. Young, Luc Xerri, Rebecca Leeman-Neill, Suzanne K. Lewis, Peter H. Green, Susan Hsiao, Mahesh M. Mansukhani, Eric D. Hsi, Laurence de Leval, Bachir Alobeid, Govind Bhagat. Genetic and phenotypic characterization of indolent T-cell lymphoproliferative disorders of the gastrointestinal tract. Haematologica. 2019 Sep 26. pii: haematol.2019.230961. doi: 10.3324/haematol.2019.230961. [Epub ahead of print]

Bryan Rea, **Nidhi Aggarwal,** Svetlana Yatsenko, Nathanael Bailey, and Yen-Chun Liu. · Acute myeloid leukemia with isolated del(5q) is associated with *IDH1/IDH2* mutations and better prognosis when compared to AML with complex karyotype including del(5q). Mod Pathol. 2019 Nov 4. doi: 10.1038/s41379-019-0396-4. [Epub ahead of print]

Terrel E. Jones, Marie C. DeFrances, **Nidhi Aggarwal.** Ocular B-cell lymphoma with amyloid deposition. Accepted in Academic Pathology, 2019.

Rohit Bhargava, M.D.

Bhargava R, Clark BZ, Carter GJ, Brufsky AM, Dabbs DJ. The healthcare value of the Magee Decision Algorithm™: use of Magee Equations™ and mitosis score to safely forgo molecular testing in breast cancer. Mod Pathol. 2020 Aug;33(8):1563-1570. doi: 10.1038/s41379-020-0521-4. Epub 2020 Mar 17.PMID: 32203092

Bhargava R, Esposito NN, O′Connor SM, Li Z, Turner BM, Moisini I, Ranade A, Harris RP, Miller DV, Li X, Moosavi H, Clark BZ, Brufsky AM, Dabbs DJ. Magee Equations™ and response to neoadjuvant chemotherapy in ER+/HER2-negative breast cancer: a multi-institutional study. Mod Pathol. 2020 Jul 13. doi: 10.1038/s41379-020-0620-2. Online ahead of print.PMID: 32661297

Lee S, Hu Y, Loo SK, Tan Y, **Bhargava R**, Lewis MT, Wang XS. Landscape analysis of adjacent gene rearrangements reveals BCL2L14-ETV6 gene fusions in more aggressive triple-negative breast cancer.Proc Natl Acad Sci U S A. 2020 May 5;117(18):9912-9921. doi: 10.1073/pnas.1921333117. Epub 2020 Apr 22.

PMID: 32321829

Pareja F, da Silva EM, Frosina D, Geyer FC, Lozada JR, Basili T, Da Cruz Paula A, Zhong E, Derakhshan F, D'Alfonso T, Wen HY, Giri DD, Hayes MM, Krings G, **Bhargava R**, Palazzo JP, Rakha EA, Hoda SA, Sanders ME, Collins LC, Schnitt SJ, Chen YY, Weigelt B, Jungbluth AA, Reis-Filho JS, Brogi E. Immunohistochemical analysis of IDH2 R172 hotspot mutations in breast papillary neoplasms: applications in the diagnosis of tall cell carcinoma with reverse polarity. Mod Pathol. 2020 Jun;33(6):1056-1064. doi: 10.1038/s41379-019-0442-2. Epub 2020 Jan 2.PMID: 31896809 **Free PMC article.**

Soran A, Tane K, Sezgin E, **Bhargava R**. The Correlation of Magee EquationsTM and Oncotype DX® Recurrence Score From Core Needle Biopsy Tissues in Predicting Response to Neoadjuvant Chemotherapy in ER+ and HER2- Breast Cancer.Eur J Breast Health. 2020 Apr 1;16(2):117-123. doi: 10.5152/ejbh.2020.5338. eCollection 2020 Apr. PMID: 32285033 Free PMC article.

PUBLICATIONS

Charleen Chu, M.D., Ph.D.

R Ojha, NM Leli, A Onorati, S Pia, II Verginadi, F Tameir, VW Rebecca, CI Chude, S Murugan, C Fennelly, E Noguera-Ortega, CT Chu, S Liu, X Xu, Clemens Krepler, M Xiao, Wei Xu, DT Frederick, G Boland, TC Mitchell, GC Karakousis, LM Schuchter, KT Flaherty, G Zhang, M Herlyn, C Koumenis, RK Amaravadi. (2019) ER translocation of the MAPK pathway drives therapy resistance in BRAF-mutant melanoma. Cancer Discov, 9: 396-415. PMCID: PMC639770
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CME Credit Update

The University of Pittsburgh School of Medicine, Center for Continuing Education for the Health Sciences CME transcripts can be obtained via the Internet at ccehs.upmc.edu. Click on link "Credit Transcripts" enter the required information (last name, last five digits of social security number). The transcript reflects the American Medical Association Category 1 credits or the Continuing Education Units (CEUs) which have been entered into the Center's database. Credits from other institutions can be entered using the option "add/modify" credit information. For questions about the Continuing Medical Education Credits, please contact 412.647.8232.

Educational Credit Unit Update

Just a reminder that the Educational Credit Units (ECUs) are being collected from every faculty member who has been involved with teaching activities of the medical or graduate school programs from **July 1, 2020 to June 30, 2021.** Please see the web-page that has been designed for this purpose and enter teaching activities as they happen. (see directions for access below). Please be sure to update your teaching data as the School of Medicine will be asking for the information in July. If you have any questions please contact Chris Szalkuski at 412-648-1040 or szalkuskict@upmc.edu.

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These links are also available on the Department of Pathology webpage under links at: http://path.upmc.edu/links.htm.

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For questions or feedback, please contact Thomas Harper at ISD (harperth@upmc.edu). Thank you.