UCSF PATHOLOGY ALUMNI NEWSLETTER

ISSUE 11: APRIL 2021

Werner Rosenau: In Memoriam

Dear Alumni,

It is with great sadness that we inform you that Dr. Werner Rosenau, Professor Emeritus of Pathology, has passed away. He had been living in a special care facility with his wife Judy for some years, and after a fall, he failed to completely recover, and gradually "slipped away" peacefully. Fortunately, he was able to communicate with his family at the end. He will be sorely missed by his family and friends, and as a valued colleague to so many of us here in the Department in the past 50+ years.

As many of you know, Werner was a true "Renaissance" man who loved travel, enjoyed art, and studied science, and loved to teach others. He also served as mentor to many of you, always with the intent to help each one find their way in pathology and in life. He was one of our regular Virchow attendees, and we recall how many of us could hear tales about almost any place in the world where he had surely traveled to at least once! Even to the last years of his life, he fondly thought of us all and sorely missed going to work in our department, but towards the end of his career, perhaps what he loved most was teaching trainees, and his dedication to them had lasting effects.
As Dr. Jeff Simko recently related to us in his remembrance of Dr Rosenau: "Two things that Dr. Rosenau hammered into me: 1. 'Look at everything on the slide' (corollary: If you are going to be wrong, be wrong on the whole slide, not because you did not look at everything.) and 2. ' Just tell them what you see!' (so easy to say, so difficult to do....)."

Werner is among the most long-standing continuous members of the UCSF community in recent memory. He came to California from Berlin around 1950. He attended both UC Berkeley and UCSF, receiving his UCSF MD in 1956. He trained as a resident in our dept from '56-'60, and joined the faculty thereafter.

In memorium, we are thankful for Dr. Rosenau's long-standing service and dedication to our department, and fondly remember him as a gentleman, a scholar/professor, a dedicated teacher and mentor, and, of course, as our dear friend.

Because of the COVID pandemic, the family has already held his cremation service without any formal event. However, as a department, Dr Linda Ferrell would be happy to collect any short stories or letters about Dr Rosenau to include in the department archive, and she would be happy to pass on any of these notes to the family as well.

Sincerely,

Jay Debnath, Chair

Grace Kim, Vice Chair

Linda Ferrell, Professor Emerita

Current Issues 2021 Cancelled

Due to extenuating circumstances, we have made the difficult decision to cancel this year's virtual UCSF Current Issues in Anatomic Pathology course previously scheduled for May 26-29, 2021. However, we still have the goal of continuing some form of CME activities for 2022, and we will keep you posted as the plans are finalized.

Awards and Other Events

Carolyn Sangokoya, MD, PhD a former AP trainee, Surgical Pathology and GI/Hepatobiliary fellow and now a post-doctoral fellow and Clinical Instructor, received a K08 Clinical Investigator Award. This award, sponsored by the NICHD, was created for individuals who have a clinical doctoral degree in order to provide support and "protected time" for an intensive, supervised, research career development experience on a path to a productive, independent research career. Dr. Sangokoya's project is titled: Post-transcriptional Regulation of Cell Fate in Early Mammalian Development, and provides over $712,000 grant support from April 2021 to 2026.

Jayanta Debnath, MD, Prof and Chair of Pathology received the Mark Foundation for Cancer Research Award. This highly respected award was established to support research challenges that are too far-reaching for a single lab to address. As cited on the following link: https://ucsf.edu/news/2021/01/419516/cancer-metastasis-target-new-research-initiative, "The researchers will study metastasis from several different angles. First, they aim to understand the diversity of human metastatic cancer by studying tumor-specific traits in organoids – 3D balls of cells grown in the lab from metastatic tumor tissue samples. They will also study host-specific traits, that is, the interactions between metastatic cancers and surrounding cells in hopes of identifying factors in the tumor microenvironment that may foster metastasis. The goal is to build a "rulebook" for metastasis that will help the researchers develop a numerical value for what they call the metastatic fitness of a given primary tumor, which could help predict the risk factors for metastasis and possibly head it off with new targeted therapies." Four researchers from UCSF were included in this award. Dr Debnath will study autophagy, one of the body's processes for eliminating damaged cellular components, and its relationship with cancer formation.

University of California: Landmark open press agreement with Elsevier Medical Publishing, featuring Marta Margeta, MD, PhD, lead negotiator for UC

Announcement from Dr Debnath:
I was elated to learn that the University of California had successfully negotiated a ground-breaking agreement with Elsevier, the world's largest scientific publisher, to support open-access publishing. As President Biden would opine, "this is a really big deal!" Indeed, the COVID pandemic and events of the past year have poignantly reinforced the importance of open scientific communication globally and made us realize how restricted access to scientific and clinical scholarly work, much of it achieved through taxpayer funding, represents an amoral barrier to progress and a root contributor to health disparity.

I wanted to tell you about a behind-the-scenes hero who made this all possible -- our very own Dr. Marta Margeta, Associate Professor of Pathology! Marta serves as the chair of the system-wide Academic Senate Committee on the Library and Scholarly Communications and a member of the 5-person team that negotiates UC transformative agreements with scholarly publishers. For the last several years, and especially the last one, Marta has spent countless hours to secure this positive outcome.

Awards and Other Events contd.

You can read about this landmark agreement at these links, both of which quote Marta:

https://www.universityofcalifornia.edu/press-room/uc-news-uc-secures-landmark-open-access-deal-world-s-largest-scientific-publisher

https://www.sfchronicle.com/local/article/UC-opens-trove-of-research-to-the-public-after-16030290.php

On behalf of the Department, I wanted to convey my immense gratitude to Marta for her dedicated service to the University of California and for her incredible efforts to make the world of science and medicine more accessible to all. Thank you, Marta!

Additional acknowledgment from the UC office of the President, Dr Michael Drake (see link above): "This groundbreaking agreement will allow for more open, equitable access to information," said UC President Michael V. Drake, M.D. "As more universities and research institutions support open access, scientific knowledge will advance at an unparalleled pace." The agreement is the largest of its kind in North America to date, bringing together UC, which generates nearly 10 percent of all U.S. research output, and Elsevier, which disseminates about 17 percent of journal articles produced by UC faculty. The deal will double the number of articles made available through UC's transformative open access agreements. Under the four-year deal, all research with a UC lead author published in Elsevier's extensive portfolio of hybrid and open access journals will be open access by default. It is the first such agreement to include open families of journals, which are considered among the world's most prestigious scientific and medical titles. University researchers will also be able to read articles published in Elsevier journals.

USCAP Report and Master Schedule

USCAP Annual Meeting (Virtual), Mar 13-18, 2021: Report submitted by Linda Ferrell, MD and schedule created by Lyubov (Lulu) Loza, Pathology Staff

This year, due to the ongoing COVID pandemic, USCAP held their entire Annual Meeting virtually, broadcast from their Palm Springs media center. This posed unique challenges not only to USCAP, but also to all the presenters who were primarily using zoom recordings and live Q&A sessions. Another challenge was the somewhat more limited funding for projects due to financial constraints at UCSF, but regardless, the faculty persevered to produce plenty of new ideas that were not only less costly, but gained acceptance as abstracts for the meeting. This resulted in a total of 36 abstract presentations with UCSF co-authors, including 28 posters and 9 platforms, 4 of which were presented by trainees. The number of faculty authors involved remained high at 40; 23 faculty were involved with 2 or more abstracts. In addition, 29 of our trainees/post-docs as well as 1 medical student were also key participants on accepted abstracts. The complete list of abstracts and other presentations are included here in this newsletter for those who might be interested in seeing the broad spectrum of projects presented.

USCAP awards (UCSF authors in bold):

1. **Cornelia Ding, MD** (UCSF Resident) was awarded 2nd place by the IACP (International Association of Chinese Pathologists) for best abstract: **C Ding, L Richer, W Devine, J Rabban**: ARHGAP35 loss in endometrial cancer: A potential candidate driver of MELF-pattern myoinvasion and lymphovascular space invasion.

USCAP Report and Master Schedule contd.

USCAP award contd.: (UCSF authors in bold)

2. **Christopher Bowman, MD, PhD,** former AP resident and GI/Hepatobiliary fellow, currently post-doctoral research fellow, was recognized as runner up (2nd place) by the Rodger Haggitt Gastrointestinal Pathology Society for the best GI abstract at USCAP by a trainee. The abstract was entitled "Persistent or Recurrent Barrett's Neoplasia After Endoscopic Therapy is Associated with DNA Content Abnormality Detected by DNA Flow Cytometric Analysis of Paraffin-Embedded Tissue, " co-authored with **R. Zhang, D. Balitzer**, D. Wang, P.S. Rabinovitch, B.P. Kővári, **A.N. Mattis, S. Kakar,** G.Y. Lauwers, **W.T. Choi**. **Won-Tak Choi, MD, PhD**, was the PI and mentor for his project.

3. And just for fun...: Grace Kim, MD, won 2nd place in the "Step Up to USCAP" award, sponsored by AstraZeneca for the most steps recorded (such as running in place or other physical steps) while attending USCAP events. Dr Kim ran-in-place while watching certain lectures during the USCAP Annual Meeting. (FYI, in 2020, Andrew Horvai came in 2nd in the stationary bike competition so we have some non-pathologic skills amongst the faculty as well.)

In addition to abstracts and running-in-place, faculty were involved in other ways at the meeting as follows: Ryan Gill, MD, PhD: Speaker at Liver Evening Specialty Conference; Michael Tetzlaff, MD, PhD Moderator for Dermatopathology Evening Specialty Conference; Sarah Umetsu, MD, PhD, Moderator for Education Platform session; Joe Rabban, MD, MPH and Thad Mully, MD, Short course instructors in Endometrial, Cervical, and Vulvar biopsies; and Frederick (Rick) Baehner, MD, Exhibitor presenter for Genomic Health, Inc.

Unfortunately, we couldn't host the annual department reception this year, and we missed seeing all our alums and other friends of the department in person, but we hope to be back on track for next year's USCAP Annual Meeting!

USCAP UCSF Master Schedule

3.13: Saturday		
10:30 AM - 11:00 AM	**Evening Specialty Conference: Liver Pathology**	Difficult Liver Pathology Cases for a Difficult Year **Ryan Gill, MD, PhD**
12:45 PM - 1:15 PM	**American Association of Neuropathologist**	Updates on Meningiomas and Emerging New Diagnostic Tools **Arie Perry, MD**
2:15 PM - 2:45 PM	**Short Course 38: GYN Biopsies: Navigating New Entities, Common Pitfalls, and Everyday Dilemmas in Endometrial, Cervical and Vulvar Biopsies**	**Joseph T. Rabban, MD, MPH** **Thaddeus Mully, MD**
3:00 PM - 3:30 PM	**Evening Specialty Conference: Dermatopathology**	**Moderator: Michael Tetzlaff, MD, PhD**

USCAP UCSF Master Schedule contd.

	3.14: Sunday	
12:45 PM - 1:15 PM	**Companion Society: Binford-Dammin Society of Infection Disease Pathologist**	COVID-19: New Sars-CoV-2 Variants **Charles Chiu, MD, PhD**
	3.15: Monday:	
8:45 AM - 9:45 AM	**Stowell-Orbison/Surgical Pathology/Autopsy Award Poster Session**	**H. Lee**, **R. Ruiz-Cordero, A. van Zante** The Utility of Next Generation Sequencing in Histologically Challenging Head and Neck Carcinomas
		J. Chaudhari, E.J. Gars, **K.W. Wen**, M. B. Modi, **R. S. Ohgami**, R. Mannan A Multi-Institutional Study of Large B-Cell Lymphomas of the Stomach Demonstrates a Male Predominance and Low Incidence of MYC Gene Rearrangements Despite Double-Expressor Phenotype
		J. Szczepanski, M. Mendiratta-Lala, J. Fang, D. M. Karamchandani, **WT. Choi**, M. Westerhoff Sinusoidal Growth Pattern of Metastic Melanoma to Liver: Implications for Biopsy Diagnosis
		A. T. Kikuchi, E. J. Gars, **N. Kayrakliogl u, R. Ruiz-Cordero, R. M. Gill, K.W. Wen**, R. Mannan, **R. S. Ohgami** A Morphologic Analysis of the Hemophagocytosis in Liver Biopsies Identifies an Association Between Multicellular Erythrophagocytosis, Aggressive NK or T-Cell Lymphomas, and Hemophagocytic Lymphohistiocytosis
		C.V. Chen, **N.A. Croom, B. Stohr, E. Chan** Clinicopathologic, Immunohistochemical, and Molecular Characterization of Aggressive Chromophobe Renal Cell Carcinomas
12:00 PM - 12: 15 PM	**Platform: Genitourinary**	**N.Y. Greenland**, **A.C. Wong, J. Simko, B. Stohr** Molecular Risk Classifier Score and Biochemical Recurrence Risk Are Associated with Cribriform Pattern Type in Gleason 3+4=7 Prostate Cancer

USCAP UCSF Master Schedule contd.

	3.15: Monday: contd.	
1:45 PM - 3:15 PM	**Stowell-Orbison/Surgical Pathology/Autopsy Award Session 1**	
2:45 PM - 3:00 PM	**Platform: Gastrointestinal Pathology**	R. Horton, T.A. Longacre, D. Allende, K.E. McHugh, J. Shia, M. Westerhoff, A. Srivastava, W. Chen, J. Vazzano, R. Kazemimood, R. Chetty, K.M. Nowak, S. Serra, **WT. Choi**, **S. Kakar**, D. Chatterjee, H.A. Cheema, R. Mannan, R. Graham, R.S. Gonzalez Colorectal Adenosquamous Carcinoma: A Clinicopathologic Analysis of 32 Cases of a Rare Carcinoma Subtype
2:15 PM - 3:15 PM	**Poster Session II: Dermatopathology**	P. Gill, E. Keiser, J. Zhang, J. Lee, D. Duose, B. Zhang, W.C. Cho, P.P. Aung, **M.T. Tetzlaff**, C.A. Torres-Cabala, J.L. Curry, V.G. Prieto, D. Ivan, P. Nagarajan Squamoid Eccrine Ductal Carcinoma: A Clinicopathologic and Transcrptomic Profiling
	Poster Session II: Informatics	**M. Hosseini, G. Law, E. Khanafshar** Developing an Online Dashboard for Monitoring Cytopathology Workload
		J. Spector, L.M. Han, J. Balcerek, M.I. Lauw, P.Bhargava, L.E. Brown, K. White, S.C. Kogan, L. Wang Whole Slide Imaging of Peripheral Blood Smears for Diagnostic Purposes
	Poster Session II: Neuropathology and Opthalmic Pathology	**E. Guney, T.A. Saunders, CH.G. Lucas, D.V. Sullivan, M. Pekmezci, D.A. Solomon, A.W. Bollen, A. Perry, T. Tihan** The Role of Alpha-B-Crystallin and p16 Accumulation in the Diagnosis and Pathogenesis of Focal Cortical Dysplasias
3:30 PM - 3:15 PM	**Platform Session: Neuropathology and Opthalmic Pathology**	**E. Guney, C.G. Lucas, R. Zhang, R.S. Ohgami, R. Ruiz Cordero, J. Rubenstein,** D.R. Boue', K. Schafernak, G.BW. Bertheim, **A.W. Bollen, A. Perry, T. Tihan, M. Pekmezci, D.A. Solomon, K.W. Wen** Genomic Landscape of Primary CNS Large B-cell Lymphoma in Children and Young Adults is Distinct from Older Adults
3:30 PM - 5:00 PM	**Stowell-Orbison/Surgical Pathology/Autopsy Award Session 2**	

USCAP UCSF Master Schedule contd.

3.16: Tuesday		
11:00 AM - 12:00 PM	**Platform: Education**	**Moderator; Sarah Umetsu, MD, PhD**
2:00 PM - 3:00 PM	**Poster Session IV: Cytopathology**	**L.M. Han, T.A. Saunders, S.M. Calkins** The Utility of High-Risk Human Papilloma Virus in Situ Hybridization (hrHPV ISH) in Cytology Cell Block Material from Cystic Head and Neck
	Poster Session IV: Education	**K. Tanaka**, R. Ramachandran Perceptions of a Remote Learning Pathology Elective for Advanced Clinical Medical Students
	Poster Session IV: Gynecologic and Obstetric Pathology	**N. Ladwig, W.P. Devine, J.P. Genert, YY. Chen,** A.S. Joehlin-Price, K. Garg HER2 Expression And Amplification In p53 Aberrant Uterine High-Grade Endometriod Carcinoma
		CK.C. Ding, L. Richer, W.P. Devine, J.T. Rabban ARHGAP35 Loss in Endometrial Cancer: A Potential Candidate Driver of MELF-Pattern Myoinvasion and Lymphovascular Space Invasion
	Poster Session IV: Hematopathology	I.E. Obiorah, **L.E. Brown**, HW. Wang, T. Hoc-Tran, L. Xi, M. Raffeid, S. Pittaluga, E.S. Jaffe Overlapping Features of Primary Cutaneous Marginal Zone Lymphoma and Primary Cutaneous CD4+ Small/Medium T cell Lymphoproliferative Disorder: A Diagnostic Challenge
		N. Kayraklioglu, R.S. Ohgami, R. Balassanian, R. Ruiz Cordero Association of the Kikuchi Fujimoto-Like Lymphadenitis and Malignancy: A Retrospective Clinicopathologic Analysis
3.17: Wednesday		
8:45 AM - 9:45 AM	**Poster Session V: Breast Pathology**	S. Jajjar, **G. Krings**, **YY. Chen**, S.J. Shin, K.H. Allison, G.R. Bean INSM1 Expression in Invasive Breast Carcinomas with a Focus on Neuroendocrine Neoplasms

USCAP UCSF Master Schedule contd.

3.17: Wednesday: contd.		
8:45 AM - 9:45 AM	Poster Session V: Cytopathology	**H. Lee, N.Y. Greenland, L. Tabatabai, CK.C. Ding, P. Vohra** Upper Urinary Tract Cytology Performance Before and After the Implementation of the Paris System for Reporting Urinary Cytology (TPS)
		G. Arslan, R. Ruiz-Cordero Adapting an Ultra-Rapid Circulating Tumor DNA Assay for Molecular Testing of Cytology Samples: A Proof-of-Concept Study
	Poster Session V: Genitourinary Pathology	**Y. Peng, B. Stohr** LZTS2, a Novel and Independent Prognostic Biomarker for Clear Cell Renal Cell Carcinoma: Clinicopathologic Correlation and Immunohistochemical Study
	Poster Session V: Gynecologic and Obstetric Pathology	**N. Ladwig, J.T. Rabban,** K. Garg Molecular Profiling Identifies Recurrent Alterations that Distinguish Uterine Serous Carcinoma from Pelvic High-Grade Serous Carcinoma
		L. Richer, N. Ladwig, W.P. Devine, J.T. Rabban NF-1 Mutated Pelvic High Grade Serous Carcinoma Exhibits Morphology More Aligned with Low Grade Serous Neoplasia than with BRCA Mutated Cancers: Implications for Identifying Tumors That Merit Molecular Testing for Potential Response to RAS Pathway Inhibitors
8:45 AM - 10:15 AM	Platform: Gastrointestinal	**9:00 AM to 9:30 AM** **WT. Choi,** M.A. Salomao, L. Zhao, L. Alpert, N. Setia, X. Liao, M.G. Drage, M.Westerhoff, J. Cheng, G.Y. Lauwers, H.M. Ko Hypermucinous, Goblet Cell Deficient, and Crypt Cell Dysplasias in Inflammatory Bowel Disease: A Multicenter Clinicopathologic Study of 126 Cases
		10:00 AM to 10:15 AM N.A. Khurram **S. Kakar, D. Balitzer** Gastric Biopsies with Prominent Eosinophils: Associations, Clinical Outcomes and Response to Therapy

USCAP UCSF Master Schedule contd.

3.17: Wednesday: contd.		
12:15 PM - 12:30 PM	**Platform: Liver Pathology**	**CK. C. Ding, H.H. Lin, F. Yao, B.M. Yeh, K.W. Wen** Chronic Viral Hepatitis and Hepatocellular Carcinoma are Enriched in Pathology-Radiology Discordance in the Diagnosis of Cirrhosis
2:30 PM - 2:45 PM	**Platform: Informatics**	K. Yao, **B. Stohr, G.Z. Laszik** An Adaptive, Collaborative, Efficient, and Precise Image Annotation Method for Difficult Morphologic Features in Deep Learning
2:15 PM - 3:15 PM	**Poster VI Session: Gastrointestinal**	**C.J. Bowman, R. Zhang, D. Balitzer,** D. Wang, P.S. Rabinovitch, B.P. Kővári, **A.N. Mattis, S. Kakar,** G.Y. Lauwers, **W.T. Choi** Persistent or Recurrent Barrett's Neoplasia After Endoscopic Therapy is Associated with DNA Content Abnormality Detected by DNA Flow Cytometric Analysis of Paraffin-Embedded Tissue
		R. Zhang, P.S. Rabinovitch, **A.N. Mattis,** G.Y. Lauwers, **WT. Choi** Clinicopathologic and DNA Flow Cytometric Analysis of High-Risk Intestinal Metaplasia in Adjacent Mucosa of Gastric
		N.H. Mohammed, P.S. Rabinovitch, B.P. Kővári, **A.N. Mattis,** G.Y. Lauwers, **WT. Choi** Clinicopathologic and DNA Flow Cytometric Analysis of Nonampullary Duodenal Adenomas in Sporadic Versus Familial Adenomatous Polyposis Patients
	Poster VI Session: Gynecologic and Obstetric Pathology	**J.T. Rabban, A.G. Cassidy, L. Poder, N.S. Sobhani, J. Gras** Early Stage Placenta Accreta Spectrum Disorder Is Clinically Under-Recognized in Women with Uterine Atony: Implications for Pathologic Management of Hysterectomy Specimens
		N. Kayraklioglu, SJ. Cho, J.M. Lage, **J.T. Rabban** Chorionic Vesicle in Early Trimester Products of Conception: A Rare Mimic of Early Complete Hydatidiform Mole

USCAP UCSF Master Schedule contd.

3.17: Wednesday: contd.		
2:15 PM - 3:15 PM	**Poster VI Session: Medical Renal Pathology**	R.M. May, C.A. Cassol, A.N. Hannoudi, E. Lerma, C. Vanbeek, m. Vankalakunti, P.D. Walker, T.D. Bourne, N.C. Messias, J.M. Ambruzs, C.L. Boils, S.G. Sharma, L.N. Cossey, P. Baxi, C. Larsen, M. Palmer, J. Zuckerman, **V. Walavalkar, A. Urisman,** V. Luyckx, J.C.Q. Velez, T.N. Caza Nephropathology of Coronavirus 2019 Disease (COVID-19): A Multi-Center Retrospective Cohort Study by the COVID-19 Kidney Biopsy Consortium
	Poster VI Session: Autopsy and Forensics	**R. Sono, E. Siegel, Z.H. Tseng, J. Salazar** Semi-Automated Death Certificate Error Classification System Characterizes Excessive Death Certificate Error in Code Deaths, Unreflective of Autopsy Completion
3.18: Thursday		
9:00 AM - 10:00 AM	**Poster VII Session: Pancreas Pathology**	**N.M. Joseph, G.E. Kim, S.E. Umetsu, S. Kakar** Challenges in the Classification of High-Grade Neuroendocrine Neoplasms Based on Current Recommendations
9:45 AM - 10:00 AM	**Platform Presentation: Gynecologic and Obstetric Pathology**	**J.T. Rabban, J.S. Mak, N. Ladwig, W.P. Devine,** K. Garg Uterine and Vulvar STUMP, But Not Leiomyosarcoma, Should Be Included in Morphology-Based Screening for Hereditary Leiomyomatosis Renal Cell Carcinoma Syndrome: A Single Institutional Study Integrating Morphology with Tumor and Germline Sequencing
10:30 AM - 11:30 AM	**Exhibitor Seminar: Exact Sciences (Genomic Health Inc.)**	**R. Baehner** Oncotype MAP™ Pan-Cancer Tissue Test: Best Practices for Decalcifying Bone Samples in Preparation for Genomic Profiling