

RADIOLOGY RESEARCH UPDATE *February 2025, Issue 32*

Department of Diagnostic Radiology and Nuclear Medicine

GRANTS

Ze Wang, PhD was awarded a five-year \$3,736,399 grant from NIA to study “Deep Learning Enhanced ASL MRI for Early AD Assessment.” Also, Dr. Wang is an MPI on a two-year \$73,314 subaward from University of Pennsylvania to study “Automated Quality Evaluation and Harmonization for Multisite ASL MRI Data.” The contact PI is Sudipto Dolui, PhD, UPenn (total NIA award amount: \$453,006.)

Kevin Kim, MD received a four-year \$3,582,770.98 grant from Replimune Group Inc to conduct “A Phase 2, Open-label, Multicenter Study Investigating RP2 Oncolytic Immunotherapy in Combination with Second-line Therapy in Patients with Locally Advanced Unresectable, Recurrent and/or Metastatic Hepatocellular Carcinoma”

Dr. Kim also received \$50,500, one-year continued funding for “A National Translational Science Network of Precision-based Immunotherapy for Primary Liver Cancer (PLC)-NCT04145141” from Guidehouse LLP.

Mirosław Janowski, MD, PhD received a two-year, \$297,000 grant from the American Cancer Society, Inc to study “Nanogel Radiocarbonyl-based Labeling and PET Imaging of T cells to Capture Their Tumor Penetration.” Dr. Janowski also received \$228,445 from the Geneva Foundation (US Army) for the project “Warfighter Brain Health.”

Dirk Mayer, Dr rer nat is a multi-PI on a two-year \$427,625 grant from NINDS to study “MRI for Metabolic Imaging of Epileptic Tissue.” The contact PI is Alexander Ksendzovsky, MD, PhD, Assistant

Professor, Department of Neurosurgery, SOM.

Bruce Wasserman, MD received a three-year \$86,258.00 subaward to study “Contribution of Cerebral Iron Load to Cognitive Function in Older Adults with High Risk to Develop Alzheimer's Disease.” This is funded by the NIA and the contact PI is Ye Qiao, PhD, Associate Professor of Radiology at Johns Hopkins School of Medicine.

RESIDENT RESEARCH

Congratulations to **Cody Savage, MD** (PGY 2), the first author of two publications that were named “*Best of AJR*.” They are (in the Neuroimaging/Head and Neck Imaging section): **Savage CH**, Tanwar M, Elkasseem AA, Sturdivant A, Hamki O, Sotoudeh H, Sirineni G, Singhal A, Milner D, Jones J, Rehder D, Li M, Li Y, Junck K, Tridandapani S, Rothenberg SA, Smith AD. Prospective Evaluation of

Artificial Intelligence Triage of Intracranial Hemorrhage on Noncontrast Head CT Examinations. *AJR Am J Roentgenol.* 2024 Nov;223(5):e2431639 and (in the Cardiothoracic Imaging section): **Savage CH**, Elkassem AA, Hamki O, Sturdivant A, Benson D, Grumley S, Tzabari J, Junck K, Li Y, Li M, Tridandapani S, Smith AD, Rothenberg SA. Prospective Evaluation of Artificial Intelligence Triage of Incidental Pulmonary Emboli on Contrast-Enhanced CT Examinations of the Chest or Abdomen. *AJR Am J Roentgenol.* 2024 Sep;223(3):e2431067. (*Note alumnus Dr. Rothenberg's contribution as well.*) Both articles were also selected as the monthly featured article for the *AJR Study Guide*. Since starting with the department last summer, Dr. Savage has published or has in press seven journal articles. Additionally, he was

selected to join the Radiology: Artificial Intelligence Trainee Editorial Board.

SELF-REPORTED PUBLICATIONS

Isaiah A, Uddin S, **Ernst T**, **Cloak C**, Li D, **Chang L**. Cognitive and Behavioral Outcomes of Snoring Among Adolescents. *JAMA Netw Open.* 2024 Nov 4;7(11):e2444057. doi: 10.1001/jamanetworkopen.2024.44057. PMID: 39514229; PMCID: PMC11549662.

Doo FX*, Savani D*, Kanhere A, Carlos RC, Joshi A, Yi PH, Parekh VS. (**co-first*) Optimal Large Language Model Characteristics to Balance Accuracy and Energy Use for Sustainable Medical Applications. *Radiology.* 2024 Aug;312(2):e240320. Doi: 10.1148/radiol.240320. PMID: [39189909](https://pubmed.ncbi.nlm.nih.gov/39189909/).

AWARDS

Flo Doo, MD was a 2024 semifinalist for a Minnie Award in the category of Most Influential Radiology Researcher in *AuntMinnie.com*'s campaign to recognize the best and brightest in medical imaging.

IN THE NEWS

Omer Awan, MD appeared on CNN twice last month, as well as NBC news and Scripps news and regularly publishes a column in Forbes. See: <https://www.youtube.com/@AwanRad/videos> and <https://www.forbes.com/sites/omerawan/>

Submit your news for *Radiology Research Update* to Brigitte Pocta: bpocta@som.umaryland.edu

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RSNA 2024 AT-A-GLANCE

RSNA SPEAKING SESSIONS

Sun Dec 1

1-2:00 PM [E451B]
Development of a quantitative imaging tool to identify candidates for tranexamic acid treatment in acute traumatic brain injury
 Maguy Farhat, Samir Dagher, Peter Kamel, Prashant Raghavan, Holly Hinson, Max Wintermark

2:30-3:30 PM [N228]
AI in Emergency Radiology – Insights in 2024
 Melissa Davis, David Dreizin, Anjali Agrawal, Joseph Cavallo

9-10:00 AM [Deep Learning Lab]
Model Training and Evaluation: Basics of NLP in Radiology (Beginner Friendly)
 Jae Ho Sohn, Cody Savage, Timothy Chen, Gunvant Chaudhari

11-12:00 PM [Residents Lounge]
Signal to Noise: Q&A Session on the ERAS Supplemental Application + PD Panel
 Brent Griffith, Ryan Peterson, Lilja Solnes, Omer Awan, Nicole Winkler

3-3:30 PM [Discovery Theater]
Engaging in research during radiology training
 Hana Haver, Flo Doo, Heba Albasha

Mon Dec 2

11-12:00 PM [E353C]
Cardiac Rapid Fire: 60 Cases in 60 Minutes
 Lissa Bergmann, Jean Jeudy, Jordi Broncano

1:15-2:00 PM [Booth 1154, South Hall]
Vendor Workshop: The exploration of ultra-low dose PET/CT and its implications for patient care: SIEMENS Healthineers
 Eliot Siegel

3-4:00 PM [Residents Lounge]
Resilience in Radiology: Navigating the Path to Success with AMGs and IMGs
 Omer Awan, Jacob Shick, Siddhi Hegde, Komal Awan, Annie Pham, Muhammad Maik

3-4:00 PM [S402]
Potential Pitfalls & Opportunities for Health Equity in Artificial Intelligence (AI)
 In Session: Advancing Justice Oriented Innovation in Radiology (Sponsored by the RSNA Health Equity Committee)
 Moderators: Efren Flores, Lucy Spalluto, Jacob Blythe
 Presenters: Flo Doo, Marc Succi, Farouk Dako

Tues Dec 3

Thurs Dec 5

Graphic courtesy of Dr. Flo Doo.

In addition, Dr. Izzet Altun (PGY 4) reported the following posters accepted for RSNA’s annual meeting: “Navigating Post-LoCOREgional Therapy Imaging in HCC: Insights and Updates,” by Izzet Altun, Ozerk Turan, Jade Wong, and Barton Lane and “Revolutionizing Radiology Education: Exploring Innovative Teaching Methods,” by Izzet Altun, Ozerk Turan, and Omer Awan.

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