

RADIOLOGY RESEARCH UPDATE *September 2022, Issue 24*

Department of Diagnostic Radiology and Nuclear Medicine

RESEARCH DAY

The department's annual Research Day was held on June 15th. Of note: The significant increase in grant funding in 2022 moved UMB's radiology department from being ranked #19 to #14 by The Blue Ridge Institute for Medical Research.

Congratulations to the award winners:

Reuben S. Mezrich

Research Prize: Thomas Ernst, Dr rer nat

The Bruce Roberts Line Prize: Jean Jeudy, MD

RSNA Resident Research Prize: Lakir Patel, MD

Faculty Appreciation

Award: Elias Melhem, MD



Left to Right: Drs. Patel, Melhem, Ernst and Jeudy

ALAVI-BRADLEY SYMPOSIUM

The inaugural Alavi-Bradley Symposium was held on May 24th and was a great success. The organizing committee was honored to have Dr. Abass Alavi present the keynote address and looks forward to planning next year's event.



Drs. Melhem and Alavi

WARRES LECTURE

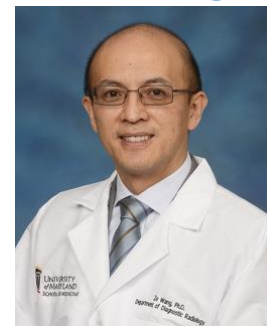


Drs. Melhem and Detre

The annual Warres Lecture was held on July 20th with **John Detre, MD** presenting "Noninvasive Perfusion MRI in Human Brain." Dr. Detre is

Professor of Neurology and Radiology and Director, Brain Science Center, Mahoney Institute for Neuroscience at the Perelman School of Medicine at the University of Pennsylvania.

IN THE NEWS



Ze Wang, PhD is featured in a press release about his research on the effects of lack of sleep in brain development in children. [Read it here](#) His research was published in *Lancet Child & Adolescent Health*

Jean Jeudy, MD is featured in a press release about the Big 10 Athletic Conference's Health Registry studying heart inflammation in athletes recovering from COVID-19. [Read it here.](#)



Dr. Jeudy also was quoted in an article in *The Baltimore Sun* about the Big Ten COVID-19 Cardiac Registry. [Read it here.](#)



Piotr Walczak, MD, PhD presented his stem cell research for neurological diseases. [Watch the video.](#)

KUDOS

Miroslaw Janowski, MD, PhD's paper: Andrzejewska A, Lukomska B, Janowski M. Concise Review: Mesenchymal Stem Cells: From Roots to Boost. *Stem Cells*. 2019 Jul;37(7):855-864 had the most citations, affecting the impact factor calculation in *Stem Cells*--one ninth of all citations of all papers published in this journal. Without this paper, the journal, instead

of having $IF=5.845$, would have $IF=5.195$.

Omer Awan, MD received the *Educator Award* sponsored by the Society for Imaging Informatics in Medicine (SIIM). The Educator Award is presented annually in recognition of outstanding contributions to imaging informatics education by a SIIM instructor or educator in the field.

GRANTS

Piotr Walczak, MD, PhD received a five-year \$2,986,702 R01 grant from NIDA for "Image-guided Intra-arterial Administration of Antibody-releasing Glial Progenitors to Control the HIV CNS Reservoir." In addition, Dr. Walczak received a two-year \$345,000.00 grant from the Maryland Stem Cell Research Fund for "Intraarterial Administration of Human MSCs Secreting P2X7-blocking Nanobody as Adjuvant Therapy for Acute Stroke" and a two-year \$130,000.00 from the same organization for "Homing of Intravascularly Injected Glial Progenitors to Demyelinating Brain

Lesions Enhanced by Focused Ultrasound Treatment."

Vikas Kundra, MD, PhD received a five-year \$2,714,359 grant from the NIH for "Multimodal Imaging and Therapy of Ovarian Cancer."

Ze Wang, PhD received a four-year \$2,306,457 grant from the NIH as one of multiple PIs of "Academic Industrial Partnership on Advanced Perfusion MRI."

Rao Gullapalli, PhD, received a three-year \$1,025,802 USAMRAA/Geneva Foundation Contract for "Comprehensive Assessment of Blast Traumatic Brain Injury in a Gyrencephalic Species: Biomechanical, MRI, Behavioral and Neuropathological Characterizations."

Yajie Liang, MB, PhD received a two-year \$463,124 R21 grant from NIA for "Shedding Light on Functional Heterogeneity of Dementia-related Alpha-synuclein Strains." Dr. Liang also received a two-year \$345,000.00 grant from the Maryland Stem Cell Research Fund

for “Intravital 2-photon Imaging Human iPSC-derived Progenitors Grafted into Ischemic Mouse Brain Assisted by Helper Cells.”

Kevin Kim, MD, MHS received a five-year \$670,955.78 grant from the Hoosier Cancer Research Network for “2133GCCC: A Randomized Phase II Study of Atezolizumab and Bevacizumab with Y90 TARE in Patients with Unresectable Hapatocellular Carcinoma (HCC).”

Dirk Mayer, Dr rer nat received a two-year \$308,999.00 grant from the U.S. Department of Defense for “Investigating Metabolic Reprogramming in Polycystic Kidney Disease Using Hyperpolarized 13C Metabolic Imaging.” Dr. Mayer also received a two-year \$193,617 R21 grant from NIDDK for “Metabolic Imaging of Hyperpolarized 13C Pyruvate in Polycystic Kidney Disease.”

IMMEDIATE ACCESS UPDATE

From a [statement](#) issued by [SPARC](#):

Washington, D.C. (Aug. 25, 2022) — As a result of action taken by the White House Office of Science & Technology Policy (OSTP), taxpayer-funded research will be immediately available for the public to freely access and fully use. The [new guidance](#) issued to all federal agencies will eliminate the current 12-month waiting period for access to research outputs, including articles and data.

NEW STAFF MEMBERS

Amber Ravenswood-Cant joined the department as a research administrator.

Amber has over 15 year’s progressive experience in research administration. At Johns Hopkins University, she served as a Research Coordinator and a Senior Research Program Coordinator in the Neuroradiology Division from 2006 to 2017. After that, she served as Senior Grants Contracts Analyst before she became a Grants and Contracts Manager in 2020.

Amber’s office is located at 100 N. Greene St Building. Room 418. She can be reached at 6-4947

or by email at aravenswoodcant@som.umaryland.edu

India Williams joined the department as a program manager. India has over ten years of progressive experience in research administration, all at UMB. She began as an Accounting Clerk II in the Greenebaum Cancer Center and progressed to a Post-Award coordinator and Fiscal Manager from 2011-2017. Following that she served as Contracts and Grants Specialist in the Department of Neurosurgery before she became a Senior Contracts and Grants Specialist in the Division of Pulmonary and Critical Care and then in the School of Pharmacy, PHSR Department before joining our department in May 2022. India's office is located at 670 W. Baltimore Street, Suite 1134. She can be reached at 6-1035 or by email at india.williams@som.umaryland.edu