

Grand Rounds

Tuesday, September 17, 12:00pm

Smilow Auditorium, 55 Park Street

Join us in person for lunch

[Zoom Access](#)

PET/MR MOLECULAR IMAGING OF CANCER

Georges El Fakhri, PhD, DABR

Elizabeth Mears and House Jameson Professor of Radiology and Biomedical Imaging and of Biomedical Informatics & Data Science; Director, Yale PET Center; Vice Chair of Scientific Research

Needs: Molecular Imaging plays a key role in cancer diagnosis, guidance of treatment (e.g., image guided radiotherapy, theranostics) and assessment of response to treatment. This talk will explore novel areas where molecular imaging can play a key role in cancer management.

Objectives: Understand the basics of molecular imaging in cancer; explore the role of PET/MR in detection and guidance of therapy; and assess new opportunities afforded by high resolution and sensitivity imaging.



Dr. Georges El Fakhri is the Elizabeth Mears and House Jameson Professor in the Department of Radiology and Biomedical Imaging, and the Department of Bioinformatics and Data Sciences at Yale School of Medicine. He is Vice-Chair for Scientific Research in Radiology and Director of the Yale PET Center.

Prior to joining Yale, Dr. El Fakhri was the Nathaniel & Diana Alpert Professor of Radiology at Harvard Medical School and the founding Director of the Endowed Gordon Center for Medical Imaging at Massachusetts General Hospital and Harvard. Dr. El Fakhri is an internationally recognized expert in quantitative molecular imaging (SPECT, PET-CT, and PET-MR) for in vivo assessment of patho-physiology in brain, cardiac and oncologic diseases.

Current areas of research include high resolution PET/MR imaging in a range of diseases including neurodegenerative disease and traumatic brain injury (amyloid and neurofibrillary tangles), cardiac disease (mitochondrial membrane potential), as well as guiding radiotherapy planning (PET/MRSI).

He has authored or co-authored more than 300 papers and mentored over 100 students, post-docs and faculty. He has received many awards and honors, including the Mark Tetalman Award from the Society of Nuclear Medicine, the Dana Foundation Brain and Immuno-Imaging Award, the Howard Hughes Medical Institutes Training Innovation Award, The Hoffman Award, as well as significant funding from many NIH Institutes (e.g., NCI, NHLBI, NIA, NIBIB, NINDS, OD). He was elected Fellow to the American Association of Physicists in Medicine (AAPM), the Society of Nuclear Medicine and Molecular Imaging (SNMMI), the American Institute for Medical and Biomedical Engineering (AIMBE), The International Academy of Medical & Biological Engineering (IAMBE) and the IEEE for contributions to quantitative biological imaging.



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