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Robert Mach, Ph.D. is currently the Britton Chance Professor of Radiology and the director of the positron emission tomography (PET) radiochemistry program at the University of Pennsylvania. His research interests include the development of radiotracers for imaging CNS receptors, oxidative stress, aggregated alpha-synuclein and mechanisms of cellular death. Dr. Mach pioneered the concept of using the sigma-2 receptor as a biomarker for imaging the proliferative status of solid tumors with PET and it was his group that reported the association of the sigma-2 receptor with the PGRMC1 protein complex.

Previously Dr. Mach was a member of the Washington University School of Medicine Division of Radiological Sciences, where he served as a professor in the departments of radiology, cell biology & physiology and biochemistry & molecular biophysics. Dr. Mach was also the director of the Washington University cyclotron facility and chief of the radiological chemistry lab of the Mallinckrodt Institute of Radiology, an academic radiology center associated with the Washington University School of Medicine.

Dr. Mach has served as president of the Radiopharmaceutical Sciences Council of the Society of Nuclear Medicine and Molecular Imaging and on the board of directors of the Society of Radiopharmaceutical Sciences. He recently received the Michael J. Welch Award from the Society of Nuclear Medicine for his outstanding contributions to the field of Radiopharmaceutical Chemistry. He is a scientific advisor to Cognition Therapeutics, Inc. and a founder of Accuronix Therapeutics, an oncology-focused biotechnology company developing small molecule drug conjugates that target the sigma-2 receptor.