

## James S. Hyde, PhD



James S. Hyde, PhD (1932–2022), was a pioneer in functional magnetic resonance imaging (fMRI), a leading authority on brain connectivity, and a world-renowned expert in electron paramagnetic resonance (EPR) spectroscopy instrumentation development.

Dr. Hyde was recruited to the Medical College of Wisconsin (MCW) in 1975 as a professor of radiology after a long and successful career with Varian Associates. He went on to become the founding director of the Biophysics Research Institute (now the Department of Biophysics), professor of biophysics, and the initial holder of the endowed James S. Hyde Professorship in Biophysics.

In 1976, he and Harold M. Swartz, MD, PhD were principal investigators on the NIH-funded National Biomedical EPR Center grant, which was the nation's first federally funded center focused on EPR instrumentation development; Dr. Hyde became director of the EPR Center in 1980 and remained in that role until his retirement in 2016. In 1992, Dr. Hyde, PhD student Peter Bandettini and MD/PhD student Eric Wong, were the first to publish on fMRI of the sensorimotor system in the human brain. In 1995, Dr. Hyde published the first paper on resting-state functional connectivity MRI, which has been cited more than 7,000 times. Over his 41-year career at MCW, Dr. Hyde received more than \$56 million in direct federal grant support and authored or co-authored more than 400 scientific papers and book chapters. He has been awarded more than 37 patents in imaging and technology and founded a technology development company with Richard Stevens. Dr. Hyde was honored by MCW with the Distinguished Service Award as well as internationally by numerous prestigious scientific societies. His contributions to the scientific community are both innumerable and invaluable.

This annual lecture honors the remarkable scientific legacy of Dr. James S. Hyde.

### Welcome & Introductions

**Francesca Marassi, PhD**

Professor, Chair and Eminent Scholar; Department of Biophysics

**John R. Raymond, Sr., MD**

President and Chief Executive Officer

**Joseph E. Kerschner, MD**

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The Julia A. Uihlein, MA, Dean of the School of Medicine

**Candice S. Klug, PhD**

James S. Hyde Professor of Biophysics, Director, National Biomedical EPR Center

### Lecture

**Peter A. Bandettini, PhD**

Director, fMRI Core Facility - National Institute of Mental Health

### Closing Remarks

**Francesca Marassi, PhD**

## Peter A. Bandettini, PhD

Peter A. Bandettini, PhD, is chief of the Section on Functional Imaging Methods, director of the Functional Magnetic Resonance Imaging Core Facility, and director of the Center for Multimodal Neuroimaging at the National Institute of Mental Health.

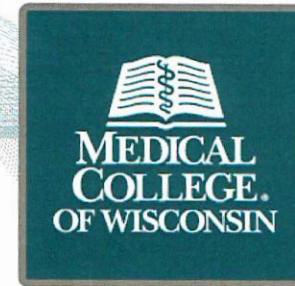


Dr. Bandettini received his BS in physics at Marquette University and his PhD in biophysics at MCW under the mentorship of Drs. James S. Hyde and R. Scott Hinks. He completed his postdoctoral training under Drs. Jack W. Belliveau and Bruce R. Rosen at Massachusetts General Hospital and Harvard Medical School. Dr. Bandettini briefly returned to MCW as an assistant professor of biophysics before joining the NIH as principal investigator of the fMRI core facility.

Notably, as a graduate student in Dr. Hyde's lab, Dr. Bandettini was the first author on the first paper published on fMRI. Dr. Bandettini has published more than 200 papers, book chapters, and books. His published work has been cited more than 52,000 times. He is a fellow and gold medalist of the International Society for Magnetic Resonance in Medicine (ISMRM) and a leading authority on functional MRI.

We are truly honored to welcome such a distinguished alumnus of MCW and former trainee of Dr. Hyde as the inaugural James S. Hyde, PhD Memorial Lecturer.

Inaugural  
**James S. Hyde, PhD**  
Memorial Lecture



**Monday, May 20, 2024**  
**10:00– 11:30 a.m.**

Alumni Center  
Medical College of Wisconsin

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Guest Lecturer  
**Peter Bandettini, PhD**  
**Director, fMRI Core Facility**  
**National Institute of Mental Health**

*Presented by the Department of Biophysics*

