

Case Western Reserve University  
School of Medicine  
Department of Pharmacology

presents

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**The Hoppel Prize  
Lectureship in  
Mitochondrial Biology**

*with*

*Distinguished Prize Winner and Guest Speaker*

**John J. Lemasters, M.D., Ph.D.**

Professor and GlaxoSmithKline  
Distinguished Endowed Chair  
Director, Center for Cell Death,  
Injury & Regeneration

Departments of Drug Discovery & Biomedical  
Sciences and Biochemistry & Molecular Biology  
Medical University of South Carolina

***“New Insights into Mitochondrial  
Metabolism in the Warburg Phenomenon”***

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***October 5, 2017***

**3:00 p.m. BRB 105**

*Reception following lecture in the BRB lobby*



*\*Thank you to Leadiant Biosciences, Inc.  
for support for this event*



Case Western Reserve University School of Medicine has established the Charles L. Hoppel, M.D. Endowment in Mitochondrial Biology to honor Dr. Hoppel's service to the School of Medicine and outstanding career in mitochondrial biology, as a researcher, educator and mentor. On an annual basis the endowment supports both the international Charles L. Hoppel Prize for a distinguished career mitochondrial scientist and the local Hoppel Award for an exemplary trainee in mitochondrial biology.

Dr. Hoppel has been a faculty member at the School of Medicine for 50 years. His passion for scientific research is matched only by his compassion for others, as evidenced by his affinity for patient care and career-long dedication to mentoring medical and graduate students. He embodies the mission of the School of Medicine, which seeks to provide excellence in medical education, advance discoveries from laboratories to patients, and improve the health of our community.

Dr. Hoppel received his M.D. in 1962 from St. Louis University. Following a residency in internal medicine at Kansas University Medical Center, he completed three years of postdoctoral laboratory training in Biochemistry at Western Reserve University School of Medicine. He served as chief of Clinical Pharmacology and director of the therapeutic drug monitoring laboratory at the Cleveland Veterans Administration Medical Center for more than three decades. He has been a member of the Center for Inherited Disorders of Energy Metabolism as a laboratory director since 1988 and co-director since 1993, and remains active in the School of Medicine's Medical Scientist Training Program. Dr. Hoppel's research in mitochondrial biology with a special focus on human disease has made seminal contributions to the areas of fatty acid oxidation, carnitine metabolism and mitochondrial oxidative phosphorylation. He has authored and contributed to hundreds of research papers and delivered lectures throughout the world. His dedication to the study of mitochondrial biology has been further incentivized as grandfather of Cooper and Payton, who have mitochondrial diseases.

## **Congratulations to John J. Lemasters, winner of the 2017 Charles L. Hoppel Prize for Outstanding Career Contributions in Mitochondrial Research!**



John Lemasters, MD, PhD, is the GlaxoSmithKline Distinguished Endowed Chair in Advanced Cellular Technologies in the Departments of Drug Discovery & Biomedical Sciences and Biochemistry & Molecular Biology, Medical University of South Carolina. Dr. Lemasters was selected from a highly competitive pool of nominees, based on the recognition of his body of research work and his exemplary career, reflecting the values and commitments that Charles Hoppel has displayed over his 50-year career as an academic scientist.

In a career spanning more than 40 years Dr. Lemasters has made seminal discoveries contributing to our understanding of mitochondrial physiology and its importance to cellular function in health and disease. His work on voltage dependent anion channels and the mitochondrial permeability transition have provided new insights on the roles that mitochondria play beyond bioenergetics. Dr. Lemasters' research has addressed clinical problems as diverse as organ preservation for transplantation, mechanisms of drug toxicity, and cancer biology.

Importantly, beyond his research productivity Dr. Lemasters' other career contributions have exemplified many of the values and attributes of Charles Hoppel's career. Dr. Lemasters is a respected teacher and mentor. He directs an NIH-funded training program in Bioenergetics, Oxidative Stress and Metabolic Syndromes. His service to the profession and broader scientific community are extensive, including membership on society governing boards and prolific reviewer of journal manuscripts and grants.

## **Congratulations to Ryan W. Clinton, winner of the 2017 Charles L. Hoppel Trainee Award for Research Excellence in Mitochondrial Biology**



Ryan Clinton is a PhD candidate in Pharmacology in the lab of Jason Mears. Ryan's published work represents a major advance in understanding functional assembly of protein complexes that drive mitochondrial membrane division, mediating mitochondrial fission.