

The Department is deeply grateful to Mark and Elizabeth Rogers for establishing this important educational resource to support the Department's mission to train the next generation of anesthesiologists and critical care medicine professionals.



Previous Speakers

2014

Mark C. Rogers, M.D., M.B.A.

Former Professor and Chair

Department of Anesthesiology and Critical Care Medicine

Johns Hopkins Medicine

2015

Chet Burrell

President and Chief Executive Officer

CareFirst BlueCross BlueShield

2016

Joseph W. Stauffer, D.O., M.B.A.

Executive Physician and Chief Medical Officer,

Cara Therapeutics, Inc.

Founder, Alta Life Sciences, LLC

2017

Phillip Phan, Ph.D.

Professor of Strategy and Entrepreneurship,

Johns Hopkins Carey Business School

Professor, Department of Medicine

Core Faculty, Armstrong Institute for Patient Safety and Quality

Johns Hopkins School of Medicine

THE FIFTH ANNUAL MARK C. ROGERS LECTURE



JOHNS HOPKINS
M E D I C I N E

*“Is there an ‘energy information system’
in biology?”*

Guy Miller, M.D., Ph.D.

Founder, Atomix Bioworks

Thursday, September 20, 2018

7:00 a.m.

Department of Anesthesiology and Critical Care Medicine

Johns Hopkins School of Medicine

Hurd Hall

Johns Hopkins Hospital



Mark C. Rogers, M.D., M.B.A.

Mark C. Rogers, M.D., M.B.A. has a combined academic medical and business career. He trained in four medical specialties at Harvard University and Duke University before coming to Johns Hopkins as an Assistant Professor in 1977 to become the first Director of the Pediatric Intensive Care Unit. Just over two years later, at age 37, he was named Professor and Chair of the newly renamed Department of Anesthesiology and Critical Care Medicine. Today, the Director of the Department has an endowed Professorship named after Dr. Rogers.

At Johns Hopkins, Dr. Rogers published 125 papers and authored or edited 12 books, including several translated into Spanish, Portuguese and Japanese. His *Textbook of Pediatric Intensive Care* is now in its fifth edition and has been renamed for him. The Department grew to many times its original size under his leadership, and there are a host of departmental and division directors who began their career in the Department at Johns Hopkins.

During Dr. Rogers' time at Johns Hopkins, he was elected to the National Academy of Sciences' Institute of Medicine, served as Associate Dean, and received an M.B.A. from the Wharton School of Business at the University of Pennsylvania.

After leaving Johns Hopkins, Dr. Rogers went on to become CEO of Duke Hospital, Senior Vice-President of the NYSE company that sequenced the human genome, President of a billion-dollar biotech investment company, and start six companies that went public on the Nasdaq, Toronto or London stock exchanges.

Dr. Rogers is presently the Chair of the Reagan-Udall Foundation, appointed by the U.S. Congress as the civilian advisory Board to the Food and Drug Administration.

He is married to Elizabeth Rogers, M.D., who is a gastroenterologist and geriatrician, is a former faculty member at Johns Hopkins and Yale, and a former Associate Dean at the University of Maryland.



Guy Miller, M.D., Ph.D.

Guy Miller is described by colleagues as a futurist in the field of biological energy. From his initial University of Chicago and DARPA-funded investigations in suspended animation, to his current interests in uncovering an electron-based biological operating system that regulates metabolism, he has been guided by a singular notion that understanding biological energy is essential to solving some of the world's most pressing problems- health, disease, aging, sustainability. Guy holds a Ph.D. in bio-organic chemistry and an M.D. with sub-specialization in critical care medicine. In 1995, he left Johns Hopkins on sabbatical to found the first of three biotechnology companies spanning the consumer and pharmaceutical commercial sectors. Currently he is focused on building a biological energy learning engine based on electron-transfer chemical reactions that are fundamental to all biological organisms and underpin metabolism and its control. His vision is to use this engine to enable a tech platform for measurement-learning-interception in biology.

Guy lives in Silicon Valley with his wife and son, and is an avid athlete and philanthropist. The Millers are significant supporters of the Palo Alto Medical Foundation whose mission is to enhance the well-being of the patients they serve.