

**The Seventeenth
Irving L. Schwartz Lectureship**
In
STRUCTURAL & CHEMICAL BIOLOGY

Stephen W. Fesik, PhD
Orrin H. Ingram II Chair in Cancer Research
Professor, Departments of Biochemistry,
Pharmacology, and Chemistry
Vanderbilt University School of Medicine

“Cancer Drug Discovery
Using Fragment-Based Methods
and Structure-Based Design”

Tuesday, September 12, 2017
2:00 pm

Hatch Auditorium
Guggenheim Pavilion

Reception to follow the lecture



Department of Pharmacological Sciences

Icahn School of Medicine at Mount Sinai
One Gustave L. Levy Place
1425 Madison Avenue
New York, New York 10029
Tel. 212-659-8647

**The Seventeenth
Irving L. Schwartz**
Lectureship
in Structural
and Chemical
Biology





Irving L. Schwartz, MD
(1918 – 2011)

Dr. Schwartz was the first Dean of the Mount Sinai Graduate School of Biological Sciences from 1965 to 1980 when he became Dean Emeritus.

He was also the founding chairman of the Department of Physiology and Biophysics (currently the Department of Structural and Chemical Biology) and the Lamport Distinguished Professor until his retirement in 1989.

Under Dr. Schwartz's early leadership, Mount Sinai grew as a center of excellence in translational research. He believed in the "vital interdisciplinary interactions among clinicians, basic scientists, medical students, and graduate students within one institution." Dr. Schwartz's interests in biomedical research and education were far reaching, addressing fundamental problems of body fluid regulation, secretory phenomena and neurophysiology. His work, originally in whole animal and organ physiology, evolved over the years to the cellular level, and ultimately to the molecular level. He had a major interest in the function of neurohypophyseal and other peptides. His studies on peptides ranged from bedside observations, to biochemical mechanisms of action, to the definition of three-dimensional structure of such molecules in solution as well as in the crystalline state. The work of his group on the molecular conformation of hormones in solution pioneered structure-function analysis based on the tertiary structure of molecules.



Stephen W. Fesik, PhD

Dr. Fesik is the Orrin H. Ingram II Chair in Cancer Research and a Professor of Biochemistry, Pharmacology, and Chemistry at Vanderbilt University. He is a member

of the Vanderbilt Ingram Cancer Center, the Vanderbilt Institute of Chemical Biology and the Center for Structural Biology. Prior to joining Vanderbilt, Dr. Fesik was the Divisional Vice President of Cancer Research at Abbott/AbbVie from 2000-2009. Dr. Fesik's research focuses on cancer drug discovery. While at Abbott, he developed new NMR methods for protein structure determination and drug discovery including a pioneering method called SAR by NMR, and built a anti-cancer drug pipeline.

Dr. Fesik has published 265 papers and trained 50 postdoctoral fellows. He has been on review panels for NCI Experimental Therapeutics Program and CPRIT. He serves on editorial boards of journals including *Journal of Medicinal Chemistry*, *Journal of Biomolecular NMR*, *Biophysical Journal*, *Molecular Cell*, *Cancer Research*, and *Nature Reviews Cancer*.

Dr. Fesik has served on the Keystone Scientific Advisory Board, Board of Directors of the UPenn Abramson Cancer Center, and the Bruker Board of Directors. He has received the Chairman's Award (1996) from Abbott, Lifetime Achievement Award in Nuclear Magnetic Resonance from EAS (2003), NIH Director's Pioneer Award (2010), the Fellow of the American Association for the Advancement of Science (AAAS) (2010), AACR Award for Outstanding Achievement in Chemistry in Cancer Research (2012), and The Lustgarten Foundation Research Investigator Award (2015).

In Honor of

IRVING L. SCHWARTZ

Scientist, scholar, teacher, physician

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- 1993 Albert J. Hudspeth, MD, PhD
University of Texas Southwestern Medical Center
 - 1995 Charles F. Stevens, MD, PhD
The Salk Institute
 - 1998 Wayne L. Hubbell, MD, PhD
University of California at Los Angeles
 - 2000 Richard N. Bergman, PhD
University of Southern California
 - 2005 Stephen C. Harrison, PhD
Harvard Medical School
 - 2006 Roger D. Kornberg, PhD*
Stanford University
* The Nobel Prize in Chemistry 2006
 - 2007 Kurt Wüthrich, PhD*
The ETH Zürich
The Scripps Research Institute
* The Nobel Prize in Chemistry 2002
 - 2008 Stuart L. Schreiber, PhD
Harvard University
The Broad Institute of MIT & Harvard
Howard Hughes Medical Institute
 - 2009 Michael G. Rosenfeld, MD
University of California, San Diego
Howard Hughes Medical Institute
 - 2010 Klaus Schulten, PhD
University of Illinois Urbana-Champaign
 - 2011 Kevan Shokat, PhD
University of California, San Francisco
Howard Hughes Medical Institute
 - 2012 Tony Hunter, PhD
The Salk Institute for Biological Studies
 - 2013 David E. Shaw, PhD
D. E. Shaw Research
Columbia University
 - 2014 Joachim Frank, PhD
Columbia University
Howard Hughes Medical Institute
 - 2015 Wayne A. Hendrickson, PhD
Columbia University
 - 2016 Jennifer Doudna, PhD
University of California, Berkeley
Howard Hughes Medical Institute