

**The Eleventh
Irving L. Schwartz Lectureship**

IN
STRUCTURAL & CHEMICAL BIOLOGY

Kevan Shokat, Ph.D.

Professor and Chairman of Cellular
and Molecular Pharmacology,
University of California, San Francisco
Investigator, Howard Hughes Medical Institute

**“Using Insights from Chemical Genetics
to Design New Therapeutics for
the Treatment of Cancer”**

Tuesday, October 11, 2011
2:00 PM

Icahn Medical Institute Building
Goldwurm Auditorium

Reception to follow the lecture

Mount Sinai School of Medicine
Department of Structural and Chemical Biology
One Gustave L. Levy Place
1425 Madison Avenue
New York, New York 10029
Tel. 212-659-8647



MOUNT SINAI
SCHOOL OF
MEDICINE

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





Irving L. Schwartz, M.D.

(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 Lampert 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.



Kevan Shokat, Ph.D.

Dr. Shokat is one of the leading investigators in the field of chemical genetics. His research focuses on the development of novel chemically based tools to decipher signal transduction pathways on a genome-wide scale. He has developed a method

for producing small molecules that are specific for a particular target in a signaling cascade by combining protein design and chemical synthesis. Professor Shokat received his Ph.D. in 1991 from UC Berkeley and completed post-doctoral work at Stanford in 1994 when he moved to Princeton University as an Assistant Professor of Chemistry. In 1999, he relocated to the Bay Area where he is Professor and Chairman of the Department of Cellular and Molecular Pharmacology at UC San Francisco and Professor of Chemistry at UC Berkeley. In 2005 he became an investigator with Howard Hughes Medical Institute. In 2010, he was inducted into the National Academy of Sciences and the Institute of Medicine, National Academy of Science. In 2011, he was elected to the American Academy of Arts and Sciences.

In Honor of

IRVING L. SCHWARTZ

Scientist, scholar, teacher, physician

A supporter of excellence in research and teaching and a source of encouragement and inspiration to his colleagues and students.

Previous Schwartz Lecturers

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|------|--|
| 1993 | Albert J. Hudspeth, M.D., Ph.D.
<i>University of Texas-
Southwestern Medical Center</i> |
| 1995 | Charles F. Stevens, M.D., Ph.D.
<i>The Salk Institute</i> |
| 1998 | Wayne L. Hubbell, M.D., Ph.D.
<i>University of California at Los Angeles</i> |
| 2000 | Richard N. Bergman, Ph.D.
<i>University of Southern California</i> |
| 2005 | Stephen C. Harrison, Ph.D.
<i>Harvard Medical School</i> |
| 2006 | Roger D. Kornberg, Ph.D.*
<i>Stanford University</i>
* <i>The Nobel Prize in Chemistry 2006</i> |
| 2007 | Kurt Wüthrich, Ph.D.*
<i>The ETH Zürich</i>
<i>The Scripps Research Institute</i>
* <i>The Nobel Prize in Chemistry 2002</i> |
| 2008 | Stuart L. Schreiber, Ph.D.
<i>Harvard University</i>
<i>The Broad Institute of Harvard & MIT</i>
<i>Howard Hughes Medical Institute</i> |
| 2009 | Michael G. Rosenfeld, M.D.
<i>University of California, San Diego</i>
<i>Howard Hughes Medical Institute</i> |
| 2010 | Klaus Schulten, Ph.D.
<i>University of Illinois Urbana-Champaign</i> |