

**The Twenty-Fourth  
Irving L. Schwartz Lectureship**  
In  
STRUCTURAL & CHEMICAL BIOLOGY

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**Dinshaw J. Patel, PhD**  
Abby Rockefeller Mauzé Chair in  
Experimental Therapeutics  
Member, Structural Biology Program  
Memorial Sloan-Kettering Cancer Center

“Structural Biology of  
Bacterial Antiphage Defense”

Thursday, March 21, 2024  
2:00 pm

Davis Auditorium, Hess Research Building  
Icahn School of Medicine at Mount Sinai  
1470 Madison Ave  
New York, NY 10029

*Reception to follow the lecture*



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**The  
Twenty-Fourth  
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 Pharmacological Sciences) 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.



**Dinshaw J. Patel, PhD**

Dr. Dinshaw J. Patel holds the Abby Rockefeller Mauzé Chair in Experimental Therapeutics and is a Member in the Structural Biology Program at the Memorial Sloan-Kettering Cancer Center (MSKCC).

A native of India, Dr. Patel earned his PhD in Chemistry from New York University in 1968 and spent 17 years at AT&T Bell Laboratories, achieving the position of Distinguished Member of Technical Staff. In 1984, he became a tenured Professor in the Department of Biochemistry and Molecular Biophysics at Columbia University, a position he held until joining MSKCC in 1992.

An internationally renowned structural biologist, Dr. Patel's research focuses on the structural biology of macromolecular recognition. He has made seminal contributions to various fields, including Argonaute-mediated RNA silencing, recognition and catalysis by riboswitches and ribozymes, histone and DNA post-translational modifications impacting on epigenetic regulation, the cGAS-STING pathway, Structural Maintenance of Chromosome complexes, and CRISPR-Cas surveillance complexes.

Dr. Patel has received numerous honors and awards, such as the 2019 Lifetime Achievement Award from the American Association of Indian Scientists in Cancer Research, the 2019 Tan Jiazhen International Life Sciences Collaboration award, and the 2023 Bei Shizhang award. He is a member of the National Academy of Sciences and the American Academy of Arts and Sciences.

## The Schwartz Lecturers

1993	Albert J. Hudspeth, MD, PhD <i>University of Texas-Southwestern Medical Center</i>
1995	Charles F. Stevens, MD, PhD <i>The Salk Institute for Biological Studies</i>
1998	Wayne L. Hubbell, MD, PhD <i>University of California at Los Angeles</i>
2000	Richard N. Bergman, PhD <i>University of Southern California</i>
2005	Stephen C. Harrison, PhD <i>Harvard Medical School</i>
2006	Roger D. Kornberg, PhD* <i>Stanford University</i>
2007	Kurt Wüthrich, PhD* <i>The ETH Zürich, Switzerland</i>
2008	Stuart L. Schreiber, PhD <i>Harvard University, The Broad Institute</i>
2009	Michael G. Rosenfeld, MD <i>University of California, San Diego, HHMI</i>
2010	Klaus Schulten, PhD <i>University of Illinois Urbana-Champaign</i>
2011	Kevan Shokat, PhD <i>University of California, San Francisco, HHMI</i>
2012	Tony Hunter, PhD <i>The Salk Institute for Biological Studies</i>
2013	David E. Shaw, PhD <i>D. E. Shaw Research, Columbia University</i>
2014	Joachim Frank, PhD* <i>Columbia University VPS, HHMI</i>
2015	Wayne A. Hendrickson, PhD <i>Columbia University VPS</i>
2016	Jennifer Doudna, PhD* <i>University of California, Berkeley, HHMI</i>
2017	Stephen W. Fesik, PhD <i>Vanderbilt University School of Medicine</i>
2018	Thomas R. Cech, PhD* <i>University of Colorado BioFrontiers, HHMI</i>
2019	David Baker, PhD <i>University of Washington, HHMI</i>
2020	Joan A. Steitz, PhD <i>Yale University, HHMI</i>
2021	Karolin Luger, PhD <i>University of Colorado, HHMI</i>
2022	Craig M. Crews, PhD <i>Yale University</i>
2023	Ian Wilson, DPhil <i>Scripps Research Institute</i>

\* The Nobel Prize Winner