

In

STRUCTURAL & CHEMICAL BIOLOGY

## 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

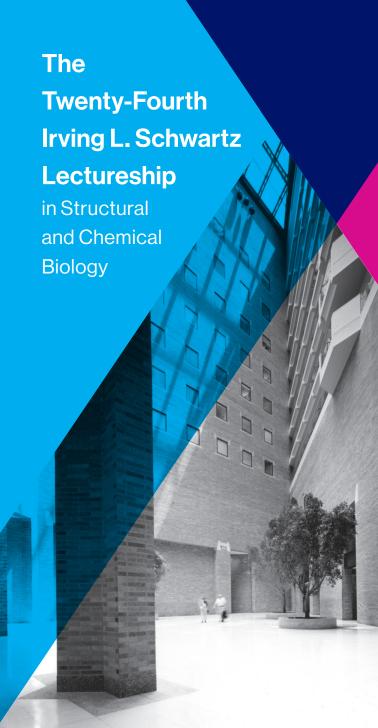
Reception to follow the lecture



## **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







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 University of Texas-Southwestern Medical Center
1995	Charles F. Stevens, MD, PhD The Salk Institute for Biological Studies
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
2007	Kurt Wüthrich, PhD* The ETH Zürich, Switzerland
2008	Stuart L. Schreiber, PhD Harvard University, The Broad Institute
2009	Michael G. Rosenfeld, MD University of California, San Diego, HHMI
2010	Klaus Schulten, PhD University of Illinois Urbana-Champaign
2011	Kevan Shokat, PhD University of California, San Francisco, HHMI
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 VPS, HHMI
2015	Wayne A. Hendrickson, PhD Columbia University VPS
2016	Jennifer Dounda, PhD* University of California, Berkeley, HHMI
2017	Stephen W. Fesik, PhD Vanderbilt University School of Medicine
2018	Thomas R. Cech, PhD* University of Colorado BioFrontiers, HHMI
2019	David Baker, PhD University of Washington, HHMI
2020	Joan A. Steitz, PhD Yale University, HHMI
2021	Karolin Luger, PhD University of Colorado, HHMI
2022	Craig M. Crews, PhD Yale University
2023	lan Wilson, DPhil Scripps Research Institute

<sup>\*</sup> The Nobel Prize Winner