

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

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**Ian A. Wilson, PhD**  
Hansen Professor of Structural Biology  
Chair of the Department of Integrative  
Structural and Computational Biology  
Scripps Research Institute

“Immune Recognition of Viral  
Pathogens: Implications for Designs  
of Vaccines and Therapeutics”

Thursday, September 28, 2023  
3:00 pm

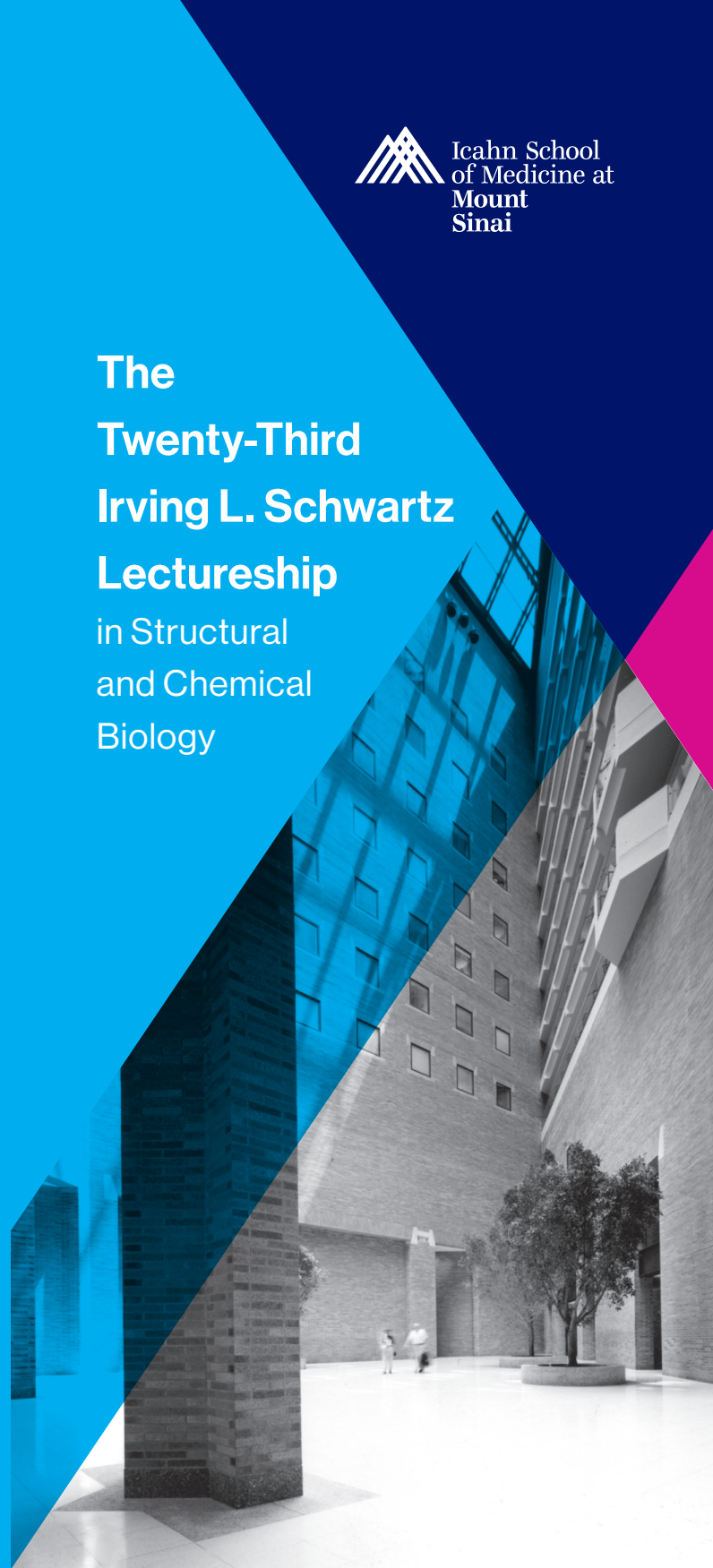
Hatch Auditorium  
Icahn School of Medicine at Mount Sinai  
1468 Madison Avenue, 2nd Floor  
New York, NY 10029

*Reception to follow the lecture*



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**The  
Twenty-Third  
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.



**Ian A. Wilson, D.Phil.,  
D.Sc., FRS, FRSE**

Prof. Ian A. Wilson obtained a B.Sc. degree in Biochemistry from Edinburgh University (1971), and D. Phil. (1976) and D.Sc. (2000) in Molecular Biophysics from Oxford

University. He was a postdoctoral fellow at Harvard University from 1977-82. In 1982, he joined Scripps Research Institute as a faculty member where he is currently Hansen Professor of Structural Biology and Chair, Department of Integrative Structural and Computational Biology.

Prof. Wilson's research has centered on how the immune system combats microbial pathogens through structural and biophysical characterization of a variety of antigen recognition receptors in innate and adaptive immunity that include antibodies, T cell receptors, MHC class I and II, CD1, TLRs, VLRs, etc. in complex with their cognate antigens. His lab's current focus is on how influenza virus, HIV-1, HCV, SARS-CoV-2, and P. falciparum are recognized by broadly neutralizing or protective antibodies to identify vulnerable sites and aid in the design of novel vaccines and therapeutics. He has authored over 875 papers and is a Fellow of the Royal Society of London, a Fellow of the Royal Society of Edinburgh, a Member of the American Academy of Arts and Sciences, an International Member of the US National Academy of Sciences, and an Honorary Fellow, Corpus Christi College, Oxford. He is on the Statistical Board of Reviewing Editors of Science and the Editorial Board of Immunity.

## 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>

\* The Nobel Prize Winner