

Brooklyn College
of The City University of New York
Department of Chemistry

announces the 36th
H. Martin Friedman Lecture

**Frontiers in
Bioinorganic Chemistry**
*Knowledge of mechanisms drives
discoveries towards biomedical
applications*

The purpose of this lecture is to provide evidence of how fundamental bioinorganic chemistry knowledge can be applied to drive important changes in different areas of biomedical science.

Therefore, I will introduce some examples from our group on the use of gold-based compounds as selective protein binders. Having a metal compound as a selective protein inhibitor enables its applications in medicine as a novel therapeutic agent or its use in chemical biology, to study a protein's function and its role in disease mechanisms.

Moreover, the application of discrete supramolecular metal-based structures, specifically self-assembled metallocages, as new generation theranostic agents will be presented. The robustness and modular composition of such supramolecular metal-based molecules allows for the incorporation of different functionalities in the same scaffold to enable imaging in cells via different modalities, but also active tumor targeting and stimuli-responsiveness. In this context, two examples of metallocages as targeted drug delivery systems for anticancer chemotherapeutics and radioactive imaging agents will be presented.

Past Friedman Lecturers

1984 Herbert C. Brown	1997 Mario Molina	2009 Maxwell E. Gottesman
1985 Roald Hoffmann	1998 Luc Montagnier	2011 John P. Richard
1986 Henry Taube	1999 Robert F. Furchgott	2012 Ann McDermott
1987 William N. Lipscomb	2000 Ronald Breslow	2013 Bonnie L. Bassler
1988 Christian B. Anfinsen	2001 Samuel D. Danishefsky	2014 Vern L. Schramm
1989 Dudley R. Herschbach	2002 Roderick MacKinnon	2015 Tom W. Muir
1990 Rosalyn S. Yalow	2003 Eli M. Pearce	2016 Gregory A. Petsko
1991 Jerome Karle	2004 Nicholas J. Turro	2017 Scott J. Miller
1992 Stanley Cohen	2005 Kendall N. Houk	2018 Bruce J. Berne
1993 David Baltimore	2006 Richard R. Schrock	2019 Esther Takeuchi
1994 Elias J. Corey	2007 Koji Nakanishi	2020 Hilal A. Lashuel
1995 Richard R. Ernst	2008 Daniel G. Nocera	

Angela Casini

Chair of Medicinal and Bioinorganic
Chemistry and Liesel Beckmann
Distinguished Professor
Technical University
of Munich

Friday, March 19, 2021
11:00 - 12:30 pm

This lecture will be held virtually @
[https://us02web.zoom.us/j/89775130069?](https://us02web.zoom.us/j/89775130069?pwd=SVAvZmJKQjdoRWNuMkE1bjZpUGVEZD09)
pwd=SVAvZmJKQjdoRWNuMkE1bjZpUGVEZD09



Dr. H. Martin Friedman, Class of 1935, has made possible, through a generous endowment, a Brooklyn College lecture series planned primarily to benefit undergraduate students. Each year, the series presents a distinguished scientist who addresses the students, faculty, and staff of the College on a topic in chemistry. It is the aim of the series to inspire and stimulate interest in science as a career by bringing to Brooklyn College scientists at the peak of their professions.