# 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*

## *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?pwd=SVAvZmJKQjdoRWNuMkE1bjZpUGVEdz09*

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 metallacages, 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 metallacages as targeted drug delivery systems for anticancer chemotherapeutics and radioactive imaging agents will be presented.

**Past Friedman Lecturers**

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

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.

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