



COLUMBIA

COLUMBIA UNIVERSITY
IRVING MEDICAL CENTER

The Department of Neurology
and
Columbia University MD-PhD Program

PRESENT

The 46th Annual
Andrew Mark Lippard
Memorial Lecture



“Covid 19: The New Plague
and the New Tomorrow”

Laurie Garrett

Award-winning Science Writer and Author



September 25, 2020 | 5:00 p.m.

Via Zoom Webinar

The Andrew Mark Lippard Memorial Lectures

The Andrew Mark Lippard Memorial Lectures were established in 1975 in memory of Professor and Mrs. Stephen J. Lippard's seven year-old son, who had died of an acute encephalopathy two years previously. Professor Lippard, who was then a member of the Department of Chemistry at Columbia, and his wife established these lectures to stimulate studies on the cause and pathogenesis of encephalopathic disease, particularly with respect to viral components. As the field has evolved, so, too, has the scope of lecture topics. The Lippard Lectures are co-sponsored by the Andrew Mark Lippard Memorial Fund, the Columbia MD-PhD Program, and the Department of Neurology. The lectures are traditionally given in the fall, as close as reasonably possible to September 29th, the date of Andrew's death.

The first Lippard Lecturer was Dr. Philip R. Dodge. Subsequent lecturers were usually prominent virologists (e.g. Richard T. Johnson, Michael B. Oldstone, Thomas C. Merigan). Topics began to vary more widely in 1982 with Leon E. Rosenberg, Robert G. Schulman, and Stanley B. Pruisner. A complete list of Lippard Lecturers is provided in this brochure. Of note, four former Lippard Lecturers have subsequently won The Nobel Prize.

Selection Committee

Dritan Agalliu, PhD	Serge Przedborski, MD, PhD
Philip De Jager, MD, PhD	(Chair)
Michio Hirano, MD	Steven Reiner, MD
Stephen Lippard, PhD (ex officio)	Jonathan Rosand, MD
George Mentis, PhD	Catherine Schevon, MD, PhD
	Neil Shneider, MD, PhD
	Ai Yamamoto, PhD

Laurie Garrett

Ms. Laurie Garrett is an award-winning science writer and author. She is the only writer to have been awarded all of the “Three P’s” of journalism – The Peabody, Polk, and Pulitzer. Ms. Garrett is the author of three books: *The Coming Plague*, *Betrayal of Trust*, and *I Heard the Sirens Scream*. For thirteen years, Ms. Garrett was a Senior Fellow for Global Health at the Council on Foreign Relations, focused on the national security aspects of emerging diseases and climate change. Currently, she is a member of the World Economic Forum Global Health Security Advisory Board, the Council on Foreign Relations, and the National Association for Science Writers.

Lippard Lectures (1975–2019)

- 2019 **Jean-Laurent Casanova, MD, PhD**
Rockefeller University
Toward A Genetic Theory of Childhood Infectious Diseases
- 2018 **Professor Emmanuelle Charpentier**
Max Planck Unit for the Science of Pathogens – Berlin
The Transformative Genome Engineering CRISPR-Cas9 Technology: Lessons Learned from Bacteria
- 2017 **Josep Dalmau, MD, PhD, FAAN**
University of Barcelona; University of Pennsylvania
Antibody-Mediated Encephalitis: Symptoms and Mechanism
- 2016 **Mary E. Hatten, PhD**
Rockefeller University
Mechanisms of Cerebellar Development: Migration, Circuit Formation and Synaptic Plasticity
- 2015 **Robert L. Macdonald, MD, PhD**
Vanderbilt University
Genetic Epilepsies and GABAA Receptor Mutations
- 2014 **Cori Bargmann, PhD**
Rockefeller University
Using Fixed Circuits to Generate Flexible Behaviors
- 2013 **Angela Vincent, MB, PhD, FRS**
Oxford University
Autoimmune Encephalitis—How Wide is the Spectrum?
- 2012 **Elizabeth Engle, MD, PhD**
Harvard University
Human Disorders of Axon Growth and Guidance
- 2011 **Thomas C. Südhof, MD***
Stanford University
Neurotransmitter Release and Neurodegeneration—the SNARA Connection
- 2010 **Kenneth L. Tyler, MD**
University of Colorado
West Nile Virus and the Nervous System
- 2009 **James O. McNamara, MD**
Duke University
Neurotrophin Receptor, TrkB, and Epileptogenesis
- 2008 **Susan Lindquist, PhD**
MIT/Whitehead Institute
Protein Folding and Misfolding in Neurobiology
- 2007 **Arnold R. Kriegstein, MD, PhD**
University of California, San Francisco
Neural Stem and Progenitor Cells in Cortical Development and Therapeutics
- 2006 **Lawrence Steinman, MD**
Stanford University
The Implications of the Surprisingly Confluent Inflammatory Portraits of Multiple Sclerosis, Tay Sachs Disease and Adrenoleukodystrophy
- 2005 **Roger Tsien, PhD***
University of California, San Diego
Building Molecules to Spy on Neurons and Tumors

- 2004 **Douglas Turnbull, PhD**
University of Newcastle upon Tyne
Mitochondrial Encephalopathies
- 2003 **Christopher A. Walsh, MD, PhD**
Harvard Medical School
Human Brain Malformations: Patterning the Cerebral Cortex
- 2002 **Huda Y. Zogbi, MD, PhD**
Baylor College of Medicine
MeCP2 Function and Dysfunction: Clues to the Pathogenesis of Rett Syndrome and Related Disorders
- 2001 **Dennis J. Selkoe, MD**
Harvard Medical School
Presenilins, Notch and the Genesis and Treatment of Alzheimer's Disease
- 2000 **Roderick Mackinnon, MD***
Rockefeller University
Potassium Channels
- 1999 **Michael V. Johnston, MD**
Johns Hopkins University School of Medicine
Selective Vulnerability in the Developing Brain
- 1998 **Robert H. Brown, Jr., MD, DPhil**
Harvard Medical School
The Molecular Pathogenesis of ALS and ALS-Dementia: Further Insights from Genetics
- 1997 **Dennis W. Choi, MD, PhD**
Washington University, St. Louis
Zinc and Ischemic Encephalopathy: Metal on the Brain?
- 1996 **M. Flint Beal, MD**
Harvard Medical School
Pathogenesis of Neurodegeneration: Is No No-Good?
- 1995 **Paul W. Brown, MD**
National Institute of Neurological Disorders and Stroke
Infectious Cerebral Amyloidosis: Phenotypes, Genotypes and Amyloid Deposition
- 1994 **Richard S.J. Frackowiak, MD, FRCP**
University of London
Organisation and Reorganisation in the Human Brain Following Injury
- 1993 **Hans Thoenen, MD**
Max Planck Institute for Psychiatry—Munich
Towards a Comprehensive Understanding of the Trophic Support of Motorneurons: Physiological, Patho-Physiological and Therapeutic Implications
- 1992 **Fred H. Gage, PhD**
University of California, San Diego
Grafting Genetically Modified Cells to the Brain
- 1991 **Jack. G. Stevens, DVM, PhD**
University of California, Los Angeles
Herpes Simplex Virus Genetic Expression During Establishment, Maintenance, and Reactivation from Latency
- 1990 **Clarence Joseph Gibbs, Jr., PhD**
National Institute of Neurological Disorders and Stroke
Mad Cow Disease and Spongiform Degeneration of the Brain

- 1989 **Paul Jolicoeur, MD, PhD**
University of Montreal and McGill University
Determinants of Pathogenicity of a Neurotropic Murine Retrovirus
- 1988 **Hugh O'Neill Mcdevitt, MD**
Stanford University School of Medicine
The Role of the Major Histocompatibility Complex in Immunity and Autoimmunity
- 1987 **Malcolm A. Martin, MD**
National Institute of Allergy and Infectious Disease
Molecular Biology of the AIDS Virus
- 1986 **James F. Gusella, PhD**
Harvard Medical School
Molecular Genetics of Huntington's Disease
- 1985 **Stanley B. Prusiner, MD***
University of California, San Francisco
Prions Causing Scrapie and Creutzfeldt-Jakob Disease
- 1984 **Robert G. Shulman, PhD**
Yale University
High Resolution NMR Studies of Brain Metabolism In Vivo
- 1983 **Bernard N. Fields, MD**
Harvard Medical School
Molecular Mechanisms of Viral Pathogenesis
- 1982 **Robert A. Fishman, MD**
University of California, San Francisco
Pathophysiology and Biochemistry of Brain Edema
- 1981 **Leon E. Rosenberg, MD**
Yale University
Hyperammonemia as a Cause of Encephalopathy in Children with Inborn Errors of Metabolism
- 1980 **Julius S. Youngner, ScD**
University of Pittsburgh
Persistent Infection and the Evolution of Viruses
- 1979 **Thomas C. Merigan, MD**
Stanford University Medical Center
Human Interferon as a Therapeutic Agent
- 1978 **Abner L. Notkins, MD**
National Institute of Dental Health
Viral Tropism, Encephalitis, and Diabetes Mellitus in Animals and Humans
- 1977 **Michael B. Oldstone, MD**
Scripps Clinic and Research Foundation
Viral Persistence and Disease
- 1976 **Richard T. Johnson, MD**
Johns Hopkins School of Medicine
Selective Vulnerability of Neural Cells to Viral Infection
- 1975 **Philip R. Dodge, MD**
Washington University
Acute Encephalopathies of Childhood—An Historical Overview

* Subsequently won Nobel Prize