The Nobel Laureate Lecture
By the Nobel Prize Inspiration Initiative

9:30 – 9:35am: Welcome

James L. Hughes, MBA
Director, UM Ventures
Vice President, Enterprise and Economic Development
University of Maryland, Baltimore
Introduction by Richard Zhao, PhD

9:35 – 9:45am: Opening Remarks

Bruce Jarrell, MD
Senior Vice President
Chief Academic and Research Officer
University of Maryland Baltimore
Introduction by James Hughes, MBA

9:45 – 10:30am: **Nobel Laureate Lecture**

Craig C. Mello, Ph.D
Distinguished Professor
University of Massachusetts Medical School, Worcester, MA, USA
2006 Nobel Prize Winner in Physiology and Medicine
Introduction by James Hughes, MBA

10:30 – 10:45am: **Q/A session**

10:45 – 11:00am: **Follow-up Discussion and Coffee Break**

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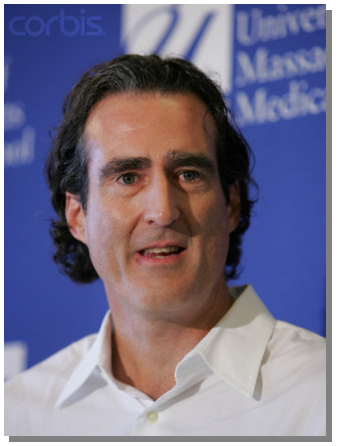

Nobel Laureate Lecture

The Nobel Prize Inspiration Initiative

Craig C. Mello, Ph.D
Distinguished Professor
University of Massachusetts Medical School, Worcester, MA, USA
2006 Nobel Prize Winner in Physiology and Medicine

As part of the Nobel Prize Inspiration Initiative, Nobel Prize Laureate Dr. Craig Mello, will be coming to UMB to present a lecture followed by audience Q & A. Dr. Mello is a American biologist and professor of molecular medicine at the University of Massachusetts Medical School and was awarded the 2006 Nobel Prize for the discovery of RNA interference.

The Nobel Prize Inspiration Initiative is a global program designed to help Nobel Laureates share their inspirational stories and insights. By taking Nobel Laureates on visits to universities and research centers around the world, and by capturing their thoughts on video, the Initiative seeks to bring the Laureates into closer contact with the worldwide scientific community, and especially with an audience of young scientists.

The Nobel Prize Inspiration Initiative aims to inspire and communicate with a global audience of scientists, at all stages of their career. The video content captured during each event now forms the basis of an invaluable collection of short, inspirational clips of Nobel Laureates in conversation with young scientists. Here, the Laureates share their insights on everything from communicating research and career options to maintaining a good work-life balance.

Translational Research and Personal Genome in Medicine

The 9th Annual Conference on Translational Research in Molecular Pathology

11:00 – 11:05am: Welcome

Richard Y. Zhao, PhD
Chair, Symposium Organizing Committee
Professor and Head
Division of Molecular Pathology
Departments of Pathology, Microbiology-Immunology
Institute of Human Virology
University of Maryland School of Medicine

11:05 – 11:15am: Opening Remarks

Sanford A. Stass, MD
Professor and Chair
Department of Pathology
Department of Medical and Research Technology
University of Maryland School of Medicine
Introduction by Richard Y. Zhao, PhD

11:15 – 11:30am: Opening Remarks

Curt I. Civin, MD
Associate Dean for Research, University of Maryland School of Medicine
Director, Center for Stem Cell Biology & Regenerative Medicine
Introduction by Sanford A. Stass

11:30 – 12:15pm: **Symposium Keynote Lecture**

Role of Hypoxia-Inducible Factor 1 in Cancer and Cardiovascular Disease

Gregg L. Semenza, M.D., Ph.D
C. Michael Armstrong Professor of Pediatrics, Medicine, Oncology, Radiation Oncology, Biological Chemistry, and Genetic Medicine
Introduction by Curt Civin, MD

12:15 – 1:00pm: Box Lunch – MSTF Atrium

Symposium Keynote Lecture

Role of Hypoxia-Inducible Factor 1 in Cancer and Cardiovascular Disease

Gregg L. Semenza, M.D., Ph.D

C. Michael Armstrong Professor of Pediatrics, Medicine, Oncology, Radiation Oncology, Biological Chemistry, and Genetic Medicine
Johns Hopkins University School of Medicine

Dr. Semenza received an A.B. degree in Biology magna cum laude from Harvard College; M.D. and Ph.D. (in Genetics) degrees from the University of Pennsylvania; pediatrics residency training at Duke University Medical Center; and postdoctoral training in Medical Genetics at Johns Hopkins University School of Medicine, where he has spent his entire career. Dr. Semenza's laboratory identified hypoxia-inducible factor 1 (HIF-1), a transcriptional activator that allows metazoan cells to respond to changes in oxygen availability. The purification of HIF-1 in 1995 opened the field of oxygen biology to molecular analysis and has revealed major roles for HIF-1 in many evolutionary, developmental, physiological, and pathological processes. He has over 300 publications, which have been cited more than 48,000 times (h factor = 110). Dr. Semenza is a recipient of the 2010 Canada Gairdner International Award, the 2012 Stanley J. Korsmeyer Award from the American Society for Clinical Investigation, and the 2012 Lefoulon-Delalande Grand Prix Scientifique from the Institut de France. He has been elected to the Society for Pediatric Research, American Society for Clinical Investigation, Association of American Physicians, Institute of Medicine, and the National Academy of Sciences.

1:00 – 1:45pm: ***Targeting Cancer Metabolism***

Chi Van Dang, MD, PhD
John H. Glick, M.D. Abramson Cancer Center
Director's Professor
Director, Abramson Cancer Center
University of Pennsylvania
Introduction by Curt Civin, MD

1:45 – 2:30pm: ***Regulatory Perspectives for Molecular Diagnostics***

Jennifer Shen, PhD, RAC
Scientific Reviewer, Office of In Vitro Diagnostics and Radiological Health (OIR)
Center for Devices and Radiological Health (CDRH)Food and Drug Administration (FDA)
Introduced by xx

2:30 – 2:45pm: **Coffee Break**

2:45 – 3:30pm: ***What's on the Horizon in Genetic Testing and Personal Genomics?***

Allen E. Bale, M.D.
Professor of Genetics
Yale University School of Medicine
Introduced by tbd

3:30 – 4:15pm: ***One Community's Effort to Control Genetic Disease***

Kevin A. Strauss, MD
Medical Director, Clinic for Special Children
Introduced by TBD

4:15 – 5:30pm: **Cocktail Reception at the MSTF Atrium**

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Division of Molecular Pathology
Department of Pathology
University of Maryland School of Medicine

Co-sponsorship

Program in Personalized and Genomic Medicine
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University of Maryland Baltimore

Organizational Committee

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Professor and Head
Division of Molecular Pathology
Director, Translational Genomics Laboratory
Director, Molecular Diagnostics Laboratory
University of Maryland School of Medicine (UMSOM)

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Associate Dean and Director of the Program in Personalized and Genomic Medicine, UMSOM

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Professor, Director and Founder,
Institute of Human Virology, UMSOM

Sanford A. Stass, MD
Professor and Chair,
Department of Pathology,
Department of Medical Research and Technology,
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Davidge Hall is the historical symbol of the **University of Maryland School of Medicine** - America's oldest public medical school, founded in 1807.