



CONVOCATION
2011 FOR CONFERRING DEGREES

Thursday, the sixteenth of June

ACADEMIC PROCESSIONAL

WELCOMING REMARKS

Marc Tessier-Lavigne, Ph.D.
President

INTRODUCTION

Sidney Strickland, Ph.D.
Dean of Graduate and Postgraduate Studies
Vice President for Educational Affairs

CONFERRING OF THE DEGREE OF
DOCTOR OF PHILOSOPHY

Marc Tessier-Lavigne

CONFERRING OF THE DEGREE OF
DOCTOR OF SCIENCE. HONORIS CAUSA

Linda B. Buck, Ph.D.
Member, Fred Hutchinson Cancer Research Center
Investigator, Howard Hughes Medical Institute

Richard Axel, M.D.
University Professor, Columbia University
Investigator, Howard Hughes Medical Institute

ACADEMIC RECESSIONAL

RECEPTION

MUSIC

New Castle Brass Quintet

2011 GRADUATES

ERIKA DEWYLLIE BILLICK*

B.S., University of California, Los Angeles

*Defining the Genomics of Normal Human Epidermal
Keratinocytes and Melanocytes*

James G. Krueger

Presented by Sarah Schlesinger

ANNE HELEN BOTHMER

B.S., Worcester Polytechnic Institute

The Role of 53BP1 in DNA Double-strand Break Repair

Michel C. Nussenzweig

MICHAEL CHIORAZZI*

B.A., Williams College

*DRE-1, a Conserved F-box Protein, Regulates Apoptosis in
Caenorhabditis elegans*

Shai Shaham

NICOLE CREANZA

A.B., Harvard College

*Assessing the Phylogenetic and Cultural Content of
Learned Song*

Fernando Nottebohm

SHELLI F. FARHADIAN*

S.B., Massachusetts Institute of Technology

*Regulation of Feeding Behavior in Anopheles gambiae and
Drosophila melanogaster*

Leslie B. Vosshall

* Participants in the Tri-Institutional M.D.-Ph.D. Program

ROBERT JONATHAN FENSTER*

A.B., Harvard College

B.A., University of Cambridge

Cell-type Specific Translational Profiling in Huntington's Disease Mouse Models

Paul Greengard

Presented by Cori Bargmann

ZAK FRENTZ

B.S., Stanford University

Long-term Quantitative Microscopy: From Microbial Population Dynamics to Growth of Plant Roots

Stanislas Leibler

Presented by Shai Shaham

FELICE KELLY

B.S., Bradley University

Spatial Control of Cdc42 Activation Regulates Cell Width and Growth Zone Formation

Paul Nurse

JEFFREY HOON KIM

A.B., Princeton University

Natural Product Biosynthesis in Uncultured Bacteria

Sean F. Brady

Presented by Sidney Strickland

ADRIA CLAIRE LE BOEUF

B.A., University of California, Santa Barbara

The Role of the Stereociliary Glycocalyx in Hair Bundle Cohesion

A. James Hudspeth

GEULAH LIVSHITS

B.S., Brandeis University

*Rapid Functional Dissection of Genetic Networks via RNAi
in Mouse Embryos*

Elaine Fuchs

Presented by Leslie B. Vosshall

TAPAN APURVA MANIAR

B.A., Bard College

*Regulation of Polarized Protein Transport to Axons Versus
Dendrites and Sensory Cilia in Caenorhabditis elegans
Neurons*

Cori Bargmann

CATHERINE OIKONOMOU

B.S., Duke University

*Studies of the Kinetics of Cell Cycle Processes in
Saccharomyces cerevisiae*

Frederick R. Cross

GRIGORIOS OIKONOMOU

B.Sc., University of Athens

Sensory Organ Morphogenesis in Caenorhabditis elegans

Shai Shaham

MARGHERITA PELITI

Laurea, University of Rome-La Sapienza

Maitrise, Ecole Normale Supérieure

*The Long-range Directional Behavior of the Nematode
Caenorhabditis elegans*

Shai Shaham

MAURIZIO P.E. LEGRINO

B.S., M.S., University of Torino

Structure-function Analysis of Insect Olfactory Receptors

Leslie B. Vosshall and Marcelo O. Magnasco

Presented by Leslie B. Vosshall

ANDREA GEOGHEGAN PROCKO

B.S., Iowa State University

Mitotic Exit: Thresholds and Targets

Frederick R. Cross

JONATHAN E. SCHMITZ*

A.B., Princeton University

M. Phil., University of Cambridge

Expanding the Horizons of Enzybiotic Identification

Vincent A. Fischetti

JASON SCHWARZ

B.A., University of Pennsylvania

*A Hydrodynamic Sensory Antenna Used by Killifish for**Nocturnal Hunting*

A. James Hudspeth

MATTHEW SEKEDAT

B.S., Michigan State University

*A Proteomic and Genomic Investigation into the Dynamics
of DNA Replication*

Brian T. Chait

ALICE O. KAMPHORST SILVA

B.S., M.S., Universidade Federal de Minas Gerais

*Antigen Presentation: Influence of Cell Type and Route of
Antigen Uptake*

Michel C. Nussenzweig

2011 GRADUATES

CLARE WALTON

M.Biochem., Exeter College, Oxford University
*Net Addition and Long-term Survival of Adult-born
Neurons in the Zebra Finch HVC*
Fernando Nottebohm

JOHN PAUL WILSON

B.S., B.A., Oregon State University
*Bioorthogonal Chemical Reporters Reveal Fatty-acylation
of Histone H3 Variants and Directly Image Cholesterol on
Proteins and in Cells*
Howard Hang
Presented by Sidney Strickland

LINDA B. BUCK, PH.D.

Presented by Marc Tessier-Lavigne, Ph.D.

Dr. Buck studies exactly how odor molecules in the environment are detected by specialized receptors in the nose and then translated by the brain into specific smells. Her groundbreaking research has in large part unraveled the mechanisms that underlie our sense of smell. For this work, she shared the 2004 Nobel Prize in Physiology or Medicine with Richard Axel “for their discoveries of odorant receptors and the organization of the olfactory system.”

Dr. Buck received bachelor’s degrees in psychology and in microbiology from the University of Washington in 1975 and her doctoral degree in immunology from the University of Texas Southwestern Medical Center, Dallas, in 1980. After doing postdoctoral work in immunology at Columbia University, she joined the Axel lab at Columbia University, first as a postdoctoral fellow from 1982 to 1984, then as an associate at the Howard Hughes Medical Institute until 1991.

In 1991, she became an assistant professor in the department of neurobiology at Harvard Medical School, and she was promoted to professor in 2001. Dr. Buck joined the division of basic sciences at the Fred Hutchinson Cancer Research Center in Seattle, Washington, in 2002 as a full member and, in 2003, became an affiliate professor in the department of physiology and biophysics at the University of Washington. Dr. Buck has been an investigator at the Howard Hughes Medical Institute since 1994.

She was elected to the U.S. National Academy of Sciences in 2003, the Institute of Medicine in 2006 and the American Academy of Arts & Sciences in 2008. In addition to the Nobel Prize, she has received numerous awards, including the Gairdner Foundation International Award, the Unilever Science Prize and the Lewis S. Rosenstiel Award for Distinguished Work in Basic Medical Research.

HONORARY DEGREE

RICHARD AXEL, M.D.

Presented by Marc Tessier-Lavigne, Ph.D.

Dr. Axel's work has integrated molecular biology to problems in neuroscience with the expectation that genetics could interface with neuroscience to approach the tenuous relationship between genes, behavior and perception. His studies on the logic of the sense of smell revealed over a thousand genes involved in the recognition of odors and provided insight into how genes shape our perception of the sensory environment. Dr. Axel's current work centers on how the recognition of odors is translated into an internal representation of sensory quality in the brain and how this representation leads to meaningful thoughts and behavior. For a series of pioneering studies that clarified in exquisite detail how the sense of smell works, he shared the 2004 Nobel Prize in Physiology or Medicine with Linda Buck.

Dr. Axel received his bachelor's degree from Columbia University in 1967 and his medical degree from Johns Hopkins School of Medicine in 1970. He returned to Columbia for a residency at the College of Physicians and Surgeons and fellowships in Columbia's Institute of Cancer Research and department of pathology, followed by two years as a research fellow at the National Institutes of Health. He joined the faculty of Columbia in 1974 as assistant professor in the department of pathology at the Institute of Cancer Research. He was promoted to professor in the departments of pathology and of biochemistry and molecular biophysics in 1978. He was named University Professor in 1999. Dr. Axel has been an investigator at the Howard Hughes Medical Institute since 1983.

The Rockefeller University
1230 York Avenue
New York City