

MARCH OF DIMES PRIZE IN DEVELOPMENTAL BIOLOGY RECIPIENT LIST

2015

Rudolf Jaenisch, MD

Whitehead Institute for Biomedical Research,
and Professor of Biology
Massachusetts Institute of Technology, Cambridge, MA

For devising innovative technologies that elucidated long-standing dilemmas in developmental biology, for recognizing the transformative significance on cellular function of epigenetic programming, and for applying the power of induced pluripotent stem cells to novel discoveries.

2014

Huda Y. Zoghbi, MD

Professor, Departments of Pediatrics; Molecular and Human Genetics; Neurology; Neuroscience; Programs in Cell and Molecular Biology and Developmental Biology
Baylor College of Medicine, Houston, TX

For pioneering work evolving from discovery that mutations in the X-linked MECP2 cause Rett syndrome and for studies elucidating the maintenance role of this epigenetic regulator in different neurons.

2013

Eric Olson, PhD

Annie and Willie Nelson Professorship in Stem Cell Research
Pogue Distinguished Chair in Research on Cardiac Birth Defects
Robert A. Welch Distinguished Chair in Science
Department of Molecular Biology
University of Texas
Southwestern Medical Center, Dallas, Texas

For discovering genes and regulatory pathways governing development and growth of the cardiovascular system, and establishing a framework for how they function.

2012

Howard Green, MD

George Higginson Professor of Cell Biology
Department of Cell Biology
Harvard Medical School, Boston, Massachusetts

& Elaine Fuchs, PhD

Rebecca C. Lancefield Professor
Laboratory of Mammalian Cell Biology & Development
Rockefeller University, New York, New York
Investigator, Howard Hughes Medical Institute
Professor, Institute for Frontier Medical Sciences
Kyoto University, Japan

For discovering how to reprogram adult skin cells into pluripotent embryonic-like adults stem cells.

2011

Patricia Ann Jacobs, OBE, DSc, FRS

Co-Director of Research,
Wessex Regional Genetics Laboratory
Salisbury, Wiltshire, England
Professor of Human Genetics,
Southampton University Medical School

& David C. Page, MD

Director, Whitehead Institute
Professor of Biology,
Massachusetts Institute of Technology, Cambridge

Investigator, Howard Hughes Medical Institute

For pioneering work in human cytogenetics and the normal and abnormal function and behavior of the X and Y chromosomes.

2010

Shinya Yamanaka, MD, PhD *

L.K. Whittier Foundation Investigator in Stem Cell Biology
Gladstone Institute of Cardiovascular Disease
Professor, University of California, San Francisco
Director, Center for iPS Cell Research and Application

For research on how certain master genes and protein signals regulate formation and growth of organs such as the brain and limbs during embryonic and fetal development.

2009

Kevin P. Campbell, PhD

Carver Chair, Department of Molecular Physiology & Biophysics
Director of the Wellstone Muscular Dystrophy Cooperative Research Center
Professor of Neurology and Internal Medicine
University of Iowa, Roy J. and Lucille A. Carver College of Medicine,
Iowa City, Iowa

& Louis M. Kunkel, PhD

Professor of Pediatrics and Genetics, Harvard Medical School
Chief of the Division of Genetics
The Children's Hospital, Boston, Massachusetts

For their pioneering research that has led to major new insights into the genetic and molecular causes of muscular dystrophy.

2008

Clifford J. Tabin, PhD

George Jacob and Jacqueline Hazel Leder Professor
Chair, Department of Genetics
Harvard Medical School, Boston, Massachusetts

& Philip A. Beachy, PhD

The Ernest and Amelia Gallo Professor
Institute for Stem Cell Biology and Regenerative Medicine
Stanford University School of Medicine, Stanford, California
Investigator, Howard Hughes Medical Institute
Distinguished Professor and Co-Chairman
Department of Human Genetics
University of Utah School of Medicine, Salt Lake City

& Oliver Smithies, DPhil, FRS *

Excellence Professor of Pathology and Laboratory Medicine
University of North Carolina, Chapel Hill

For the development of gene targeting in mice as a means of determining how genes function.

2007

Dame Anne McLaren, DBE, DPhil, FRS, FRCOG

Principal Research Associate
Wellcome Trust/Cancer Research UK Gurdon Institute
University of Cambridge, England

& Janet Rossant, PhD, FRS, FRS(C)

Chief of Research, The Hospital for Sick Children
University Professor, Departments of Medical Genetics & Microbiology and Obstetrics & Gynecology
University of Toronto, Canada

For their remarkable contributions to our understanding of the entire cycle of mammalian reproduction and development, using the mouse as a model system.

2006

Alexander Varshavsky, PhD

Howard and Gwen Laurie Smits Professor of Cell Biology
Division of Biology
California Institute of Technology, Pasadena

For explaining how ubiquitin, a tiny protein found in all living things, plays a major role in our lives by helping to regulate many crucial processes in human cells.

2005

Mario Capecchi, PhD *

Boswell Professor of Neurosciences Emeritus
Division of Biology
California Institute of Technology, Pasadena
& **Sydney Brenner, DPhil, FRS ***
Distinguished Professor
The Salk Institute for Biological Studies, La Jolla, California

For their tremendously influential bodies of work which have helped to revolutionize and open up productive new fields of study in molecular biology and genetics.

2004

Mary F. Lyon, PhD, FRS

Former Head, Genetic Section, MRC Mammalian Genetics Unit
Medical Research Council
Harwell, United Kingdom

For discovery of the process of X-chromosome inactivation.

2003

Pierre Chambon, MD

Professor and Director
Institute for Genetics and Cellular and Molecular Biology, INSERM,
Strasbourg, France

& Ronald M. Evans, PhD

Professor, Gene Expression Laboratory
The Salk Institute for Biological Studies, La Jolla, California

For discovering nuclear hormone receptors and characterizing their structure and function.

2002

Seymour Benzer, PhD

Boswell Professor of Neurosciences Emeritus
Division of Biology
California Institute of Technology, Pasadena
& **Sydney Brenner, DPhil, FRS ***
Distinguished Professor
The Salk Institute for Biological Studies, La Jolla, California

For their tremendously influential bodies of work which have helped to revolutionize and open up productive new fields of study in molecular biology and genetics.

2001

Corey S. Goodman, PhD

Evan Rauch Professor of Neuroscience
Director, Wills Neuroscience Institute
University of California, Berkeley
& **Thomas M. Jessell, PhD, FRS**
Professor, Department of Biochemistry and Molecular Biophysics
Columbia University, New York, New York

For their extraordinary body of work that has helped revolutionize the molecular understanding of central nervous system development and function.

2000

H. Robert Horvitz, PhD *

Professor of Biology
Massachusetts Institute of Technology, Cambridge

For pioneering work in revealing genetic control over the active process of programmed cell death or apoptosis.

1999

Sir Richard L. Gardner, PhD, FRS

Henry Dale Research Professor of the Royal Society
Oxford University, England

& Sir Martin J. Evans, PhD, DSc, FRS *

Professor of Mammalian Genetics
University of Cambridge, England

For pioneering techniques to identify and grow the embryonic stem cells of mice in vitro and to introduce specific mutations into these cells.

1998

Davor Solter, MD, PhD

Director and Member, Max-Planck-Institute of Immunobiology
Department of Developmental Biology, Freiburg, Germany, and
Adjunct Senior Staff Scientist
The Jackson Laboratory, Bar Harbor, Maine

For pioneering the concept of gene imprinting.

1997

Walter J. Gehring, PhD

Professor of Developmental Biology and Genetics, Biozentrum
University of Basel, Switzerland

& David S. Hogness, PhD

Munzer Professor of Developmental Biology and Biochemistry
Stanford University School of Medicine, Stanford, California

For discovery and analysis of homeobox genes.

1996

Beatrice Mintz, PhD

Senior Member, Institute for Cancer Research
Fox Chase Cancer Center, Philadelphia, Pennsylvania

& Ralph L. Brinster, VMD, PhD

Richard King Mellon Professor of Reproductive Physiology
University of Pennsylvania School of Veterinary Medicine,
Philadelphia

For development of the transgenic mouse.

NOTE: * Indicates Nobel Prize recipient or co-recipient.