

Smith Family Awards Program for Excellence in Biomedical Research

A PROGRAM OF THE RICHARD AND SUSAN SMITH FAMILY FOUNDATION



Alumni Directory

1992 - 2019

Updated, 12/2019

The Richard and Susan Smith Family Foundation is committed to effecting permanent positive change in the lives of the residents of Greater Boston, particularly individuals and families in economically disadvantaged communities. Today, three generations of the Smith family oversee the Foundation, stewarding approximately \$15 million annually in grants aimed at promoting greater health, educational attainment, and economic mobility. In the area of health, the Foundation supports the advancement of biomedical research and the expansion of access to high-quality health care at safety net institutions serving low-income individuals and communities of Greater Boston.

In 1991, the Smith Family Foundation contracted with The Medical Foundation at Health Resources in Action to create a grantmaking program that would identify and support promising junior faculty to find breakthroughs in such areas as AIDS/HIV, cancer, heart disease, diabetes or neuroscience. Since 2008, the Award has broadened to support newly independent faculty engaged in basic biomedical science as well as physics, chemistry and engineering with a focus on biomedicine. The Awards are currently in the amount of \$300,000 over three years.

Over the past 28 years, the Smith Family Awards Program for Excellence in Biomedical Research has helped launch the careers of 175 outstanding scientists with support totaling \$36.5 million.

The following is a listing of all Award Recipients in alphabetical order with current contact information as well as the title of the funded research project. The Smith Family is extraordinarily proud of the accomplishments of its Awardees and is honored to provide the critical support for their newly established research programs.

Judith Agudo, Ph.D.

(2019 Award Recipient)

Novel platform to increase dendritic cell function and antigen-specific T cell responses to cancer

Dana-Farber Cancer Institute

Judith_Agudo@dfci.harvard.edu

Mark L. Andermann, Ph.D.

(2012 Award Recipient)

Cortical Networks Guiding Hunger-Dependent Attention to Food Cues

Beth Israel Deaconess Medical Center

manderma@bidmc.harvard.edu

Zolt P. Arany, M.D., Ph.D.

(2008 Award Recipient)

Peroxisome Proliferator-Activated Receptor Gamma 1alpha (PGC-1alpha) and Cardiac Angiogenesis

University of Pennsylvania

zarany@mail.med.upenn.edu

Scott A. Armstrong, M.D., Ph.D.

(2004 Award Recipient)

Multi-step Pathogenesis of MLL-rearranged Leukemias

Memorial Sloan-Kettering Cancer Center

armstros@mskcc.org

Emily Patricia Balskus, Ph.D.

(2011 Award Recipient)

Understanding and Preventing the Production of Disease-Associated Metabolites by the Human Gut Microbiota

Harvard University

balskus@chemistry.harvard.edu

Jennifer Benanti, Ph.D.

(2011 Award Recipient)

Mapping the Proteolytic Regulatory Network that Controls Cell Division

University of Massachusetts Medical School

Jennifer.Benanti@umassmed.edu

Leslie J. Berg, Ph.D.

(1993 Award Recipient)

Analysis of the Tsk tyrosine Kinase in Transgenic Mice

University of Massachusetts Medical School

leslie.berg@umassmed.edu

Sudha Biddinger, M.D., Ph.D.

(2010 Award Recipient)

Regulation of the LDLR by Insulin and Diabetes

Boston Children's Hospital

sudha.biddinger@childrens.harvard.edu

Jonathan S. Bogan, M.D.

(2000 Award Recipient)

Role of ARF Proteins in GLUT4 Trafficking

Yale School of Medicine

jonathan.bogan@yale.edu

Laurie A. Boyer, Ph.D.

(2009 Award Recipient)

Non-coding RNA as a Regulator of Cell Fate through Functional Interaction with Polycomb Group Proteins

Massachusetts Institute of Technology

lboyer@mit.edu

James E. Bradner, M.D.

(2010 Award Recipient)

Chemical Inhibition of Bromodomains in Cancer

Novartis Institutes of BioMedical Research

James.bradner@novartis.com

David K Breslow, Ph.D.

(2018 Award Recipient)

Deconstructing the Cellular Antenna: Primary Cilium Disassembly and Control of Cell Growth

Yale University

david.breslow@yale.edu

Alan Brown, Ph.D.

(2018 Award Recipient)

Structural Basis of Intraflagellar Transport

Harvard Medical School

alan_brown@hms.harvard.edu

Jessica A Cardin, Ph.D.

(2012 Award Recipient)

GABAergic Contributions to Neural and Cognitive Deficits in a Genetic Model of Schizophrenia.

Yale University

jess.cardin@yale.edu

William A. Carlezon, Ph.D.

(1999 Award Recipient)

Neural Substrates of Aversion to Addictive Drugs

McLean Hospital

carlezon@mclean.harvard.edu

Francis Ka-Ming Chan, Ph.D.

(2003 Award Recipient)

TNF-Induced Programmed Cell Death in Immune Responses

University of Massachusetts Medical School

francis.chan@umassmed.edu

Daniel L. Chase, Ph.D.

(2006 Award Recipient)

Electrophysiological Analysis of Novel Dopamine Signaling Mechanisms in C. elegans

Central Connecticut State University

chase@ccsu.edu

Abhishek Chatterjee, Ph.D.

(2013 Award Recipient)

A Chemical Toolset to Investigate and Engineer Viral Infection

Boston College

abhishek.chatterjee@bc.edu

Iain M. Cheeseman, Ph.D.

(2007 Award Recipient)

Proteomic and Functional Dissection of the Human Kinetochore

Whitehead Institute for Biomedical Research

icheese@wi.mit.edu

Jianzhu Chen, Ph.D.

(1995 Award Recipient)

Molecular Analysis of Memory B Cell Differentiation

Massachusetts Institute of Technology

jchen@mit.edu

Jerry Lu Chen, Ph.D.

(2016 Award Recipient)

Circuit Mechanisms for Long-Range Communication in the Neocortex

Boston University

jerry@chen-lab.org

James Jeiwen Chou, Ph.D.

(2003 Award Recipient)

Structural Study of the Membrane-Associated State of BID for Understanding BID-Induced Damage of Mitochondrial Wall during Apoptosis

Harvard Medical School

james_chou@hms.harvard.edu

Damon Alistair Clark, Ph.D.

(2013 Award Recipient)

Dissecting Motor Pattern Generating Circuits in Walking Drosophila

Yale University

damon.clark@yale.edu

Steven Chuck, M.D.

(1997 Award Recipient)

Regulation of Apolipoprotein B Secretion

Gilead Sciences

steven.chuck@gilead.com

Andrew Connolly, M.D., Ph.D.

(1998 Award Recipient)

Endothelial Protease-Activated Receptors

Stanford University School of Medicine

aconnoll@stanford.edu

Paul B. Cook, Ph.D.

(2000 Award Recipient)

Modulation of Glycinergic Inhibition in the Vertebrate

Integrated Project Management

pcook@ipmcinc.com

David Daniel Cox, Ph.D.

(2013 Award Recipient)

Learning How to See: a Biological and Computational Investigation of How Visual Cortex Learns and Develops

Harvard University

davidcox@fas.harvard.edu

Daniel H. Cox, Ph.D.

(2000 Award Recipient)

Characterization of the Ca²⁺ Binding Sites of the Large-Conductance Ca²⁺-Activated K⁺ Channel

Tufts University School of Medicine

dan.cox@tufts.edu

Michael Crickmore, Ph.D.

(2015 Award Recipient)

Molecular and Circuit Analyses of a Motivational State

Boston Children's Hospital

michael.crickmore@childrens.harvard.edu

Alexei Degterev, Ph.D.

(2007 Award Recipient)

Molecular Mechanism and Oncogenic Regulation of Cellular Necrosis

Tufts University School of Medicine

alexei.degterev@tufts.edu

Walter E. Demkowicz, Ph.D.

(1995 Award Recipient)

Immunotherapy for AIDS: Transduction of HIV-1-Specific T-cell Receptor Genes

University of Massachusetts Medical School

wdemkowicz@yahoo.com

Li Deng, Ph.D.

(1999 Award Recipient)

A Chemical Approach Toward Understanding DNA Modification

Brandeis University

deng@brandeis.edu

Stephanie Dougan, Ph.D.

(2015 Award Recipient)

In Situ Delivery of Neoantigens and Targeted Radiation in a Therapeutic Vaccine for Pancreatic Cancer

Dana-Farber Cancer Institute

stephanie_dougan@dfci.harvard.edu

Elaine A. Elion, Ph.D.

(1992 Award Recipient)

*Mechanisms of Negative Growth Control in *Saccharomyces cerevisiae**

Harvard Medical School

elaine_elion@hms.harvard.edu

Patrick T. Ellinor, M.D., Ph.D.

(2003 Award Recipient)

The Genetics of Atrial Fibrillation: Exploration of Endophenotypes

Massachusetts General Hospital

pellinor@partners.org

Sean Elliott, Ph.D.

(2004 Award Recipient)

Thioredoxins, Thioredoxin Reductase and the Mechanisms of Oxidative Stress

Boston University

elliott@bu.edu

Patrick Emery, Ph.D.

(2002 Award Recipient)

Circadian Rhythms and their Synchronization in Drosophila

University of Massachusetts Medical School

patrick.emery@umassmed.edu

Tamar Enoch, Ph.D.

(July 1993 Award Recipient)

Using Yeast to Identify New Tumor Suppressor Genes

Jerry Faust, Ph.D.

(1992 Award Recipient)

Cloning and Initial Characterization of a Kidney Specific Transporter for Mevalonic Acid

Tufts University School of Medicine

jerry.faust@tufts.edu

Steven M. Finkbeiner, M.D., Ph.D.

(1998 Award Recipient)

Molecular Mechanisms of Huntington's Disease

Gladstone Institute of Neurological Disease

sfinkbeiner@gladstone.ucsf.edu

Matthew L. Freedman, M.D.

(2006 Award Recipient)

A Genome-Wide Admixture Scan to Identify Genetic Determinants of Basal-Like Breast Cancer

Dana-Farber Cancer Institute

matthew_freedman@dfci.harvard.edu

Marc R. Freeman, Ph.D.

(2004 Award Recipient)

Characterizing Core Components of the Glial Cell Machinery

University of Massachusetts Medical School

marc.freeman@umassmed.edu

Lillian Fritz-Laylin, Ph.D.

(2019 Award Recipient)

Defining Mechanisms of Pathogenesis of the "Brain-eating Amoeba"

University of Massachusetts Amherst

lfritzlaylin@umass.edu

Robert C. Fuhlbrigge, M.D., Ph.D.

(1999 Award Recipient)

Regulation of CTCL Migration to Skin via CLA

Brigham and Women's Hospital

rfuhlbrigge@partners.org

Jianmin Gao, Ph.D.

(2007 Award Recipient)

Understanding Beta Sheet Structure within the Membrane Bilayer

Boston College

gaojc@bc.edu

Neil Joseph Ganem, Ph.D.

(2014 Award Recipient)

Maintenance of Genome Stability by the Hippo Tumor Suppressor Pathway

Boston University School of Medicine

nganem@bu.edu

Timothy J. Gardner, Ph.D.

(2009 Award Recipient)

Exploring the Function of Sleep in Neural Circuit Formation

Boston University

timothyg@bu.edu

Ethan Clark Garner, Ph.D.

(2012 Award Recipient)

Building a Mechanistic Understanding of Bacterial Cell Wall Growth using High-Resolution Dynamic Imaging

Harvard University

egarner@g.harvard.edu

Frank B. Gertler, Ph.D.

(1998 Award Recipient)

Mena Function in Tumor Cell Biology and Metastasis

Massachusetts Institute of Technology

fgertler@mit.edu

Grace Gill, Ph.D.

(1996 Award Recipient)

Regulation of Cell Growth by Cellular EIA-Like Proteins

Tufts University School of Medicine

grace.gill@tufts.edu

Lisa V. Goodrich, Ph.D.

(2003 Award Recipient)

Cellular and Molecular Mechanisms of Sensory System Development

Harvard Medical School

lisa_goodrich@hms.harvard.edu

Fotini Gounari, Ph.D., D.Sc.

(2003 Award Recipient)

Thymocyte Transformation in the DN to DP Transition

University of Chicago

fgounari@medicine.bsd.uchicago.edu

Yonatan Grad, M.D., Ph.D.

(2015 Award Recipient)

*Genetic Networks of Antibiotic Resistance in *Neisseria gonorrhoeae**

Harvard School of Public Health

ygrad@hsph.harvard.edu

Timothy E. Graham, M.D.

(2007 Award Recipient)

Stimulated by Retinoic Acid-6 (Stra6) and Insulin Resistance

University of Utah School of Medicine

tgraham@u2m2.utah.edu

Nikolaus Grigorieff, M.Sc., Ph.D.

(2000 Award Recipient)

Structural Analysis of the Shaker Potassium Channel

Janelia Research Campus

niko@grigorieff.org

Paul Lieberman Greer, Ph.D.

(2018 Award Recipient)

Exploring the Role of a Novel Population of Microglia in Alzheimer's Disease

University of Massachusetts Medical School

Paul.Greer@umassmed.edu

Steven R. Grossman, Ph.D., M.D.

(2000 Award Recipient)

Purification and Analysis of a p53-Targeted Ubiquitin Ligase

Virginia Commonwealth University

srgrossman@vcu.edu

Marc-Jan Gubbels, Ph.D.

(2006 Award Recipient)

*Dissection of *Toxoplasma gondii* Cell Division, an Opportunistic Pathogen Causing*

Myocarditis and Encephalitis

Boston College

gubbelsj@bc.edu

Piyush Gupta, Ph.D.

(2011 Award Recipient)

Functional Dissection of Invasive Mesenchymal Cancer Cells

Whitehead Institute for Biomedical Research

pgupta@wi.mit.edu

Jeanne A. Hardy, Ph.D.

(2005 Award Recipient)

Designing Allosteric Switches in Caspases

University of Massachusetts Amherst

hardy@chem.umass.edu

Aaron N. Hata, M.D., Ph.D.
(2017 Award Recipient)
Determining the Impact of Therapy-Induced Mutations on Tumor Heterogeneity and Evolution of Acquired Drug Resistance
MGH Cancer Center
ahata@mgh.harvard.edu

Akiko Hata, Ph.D.
(2001 Award Recipient)
Mechanisms of TGF- β Signal Transduction
University of California, San Francisco
akiko.hata@ucsf.edu

Daniel N. Hebert, Ph.D.
(1998 Award Recipient)
Tyrosine Maturation and Degradation in Normal Melanocytes and Melanoma Cells
University of Massachusetts Amherst
dhebert@biochem.umass.edu

Michael J. Higley, M.D., Ph.D.
(2010 Award Recipient)
Neuromodulation of Synaptic Transmission in the Prefrontal Cortex
Yale School of Medicine
m.higley@yale.edu

Philip W. Hinds, Ph.D.
(1993 Award Recipient)
The Retinoblastoma Protein Pathway in Differentiation, Senescence and Cancer
Tufts University, Sackler School
phinds@tufts.edu

Joel Hirschhorn, M.D., Ph.D.
(2002 Award Recipient)
Comprehensive Evaluation of Reported Associations between Common Gene Variants and Obesity
Boston Children's Hospital
joelh@broadinstitute.org

Andreas Hochwagen, Ph.D.
(2007 Award Recipient)
Investigating the Role of Checkpoint Adaptation in Anti-Cancer Drug Resistance
New York University
andi@nyu.edu

Ya-Chieh Hsu, Ph.D.
(2014 Award Recipient)
Investigation of How Cell Types from Diverse Lineages Coordinate Changes and Behaviors during Regeneration
Harvard University
yachieh_hsu@harvard.edu

Jianming Hu, M.D., Ph.D.
(1999 Award Recipient)
Host Factors Required for Hepatitis B Virus Assembly and Replication
The Pennsylvania State University College of Medicine
juh13@psu.edu

Paul Huang, M.D., Ph.D.
(1994 Award Recipient)
Vascular Function in Nitric Oxide Synthase Mutant Mice
Massachusetts General Hospital
huangp@helix.mgh.harvard.edu

Jun R. Huh, Ph.D.
(2013 Award Recipient)
Bacterial Regulators of Immunity and their Modulation of Host Transcription Factors
University of Massachusetts Medical School
Jun.Huh@umassmed.edu

Craig P. Hunter, Ph.D.
(1997 Award Recipient)
Identifying the Regulatory Targets of pal-1
Harvard University
hunter@mcb.harvard.edu

Tyler Jacks, Ph.D.

(1992 Award Recipient)

Functional Analysis of the p53 Gene

David H. Koch Institute for Integrative Cancer
Research at MIT

tjacks@mit.edu

Ankur Jain, Ph.D.

(2018 Award Recipient)

*Identifying Cellular Suppressors of RNA
Aggregation*

Whitehead Institute for Biomedical Research

ajain@wi.mit.edu

James Jeanne, Ph.D.

(2019 Award Recipient)

*Cracking the neural code for perception by
writing spikes into neural circuits*

Yale University

james.jeanne@yale.edu

David Jeruzalmi, Ph.D.

(2002 Award Recipient)

*Structure and Function of Biological
Assemblies*

The City College of New York

dj@ccny.cuny.edu

Karla R Kaun, Ph.D.

(2014 Award Recipient)

*Neuro-molecular Mechanisms Underlying
Alcoholism*

Brown University

karla_kaun@brown.edu

Aleksandar David Kostic, Ph.D.

(2016 Award Recipient)

*Immunological Investigation of Human Type
1 Diabetes-Associated Microbiomes in the
Gnotobiotic Autoimmune Diabetic Mouse*

Joslin Diabetes Center

adkostic@gmail.com

Philip J. Kranzusch, Ph.D.

(2016 Award Recipient)

*Mechanism of Activation of a New Human
RNA Second Messenger Signaling Enzyme*

Dana-Farber Cancer Institute

philip_kranzusch@dfci.harvard.edu

Jordan A. Kreidberg, M.D., Ph.D.

(1995 Award Recipient)

A Transgenic Mouse Model of Wilms' Tumor

Boston Children's Hospital

jordan.kreidberg@childrens.harvard.edu

Joshua Kritzer, Ph.D., M.Sc.

(2009 Award Recipient)

Targeting Hsp90 with Small Cyclic Peptides

Tufts University

joshua.kritzer@tufts.edu

Andrew Kruse, Ph.D.

(2015 Award Recipient)

A New Approach to Targeting GPCRs

Harvard Medical School

andrew_kruse@hms.harvard.edu

Galit Lahav, Ph.D.

(2005 Award Recipient)

p53 Dynamics and Control of Cell Fate

Harvard Medical School

Galit_Lahav@hms.harvard.edu

David Lambright, Ph.D.

(1996 Award Recipient)

*Structural Determinants of G Protein Coupled
Signal Transduction*

University of Massachusetts Medical School

david.lambright@umassmed.edu

Matthew J. LaVoie, Ph.D.

(2005 Award Recipient)

*The Role of Protein Modification and
Dysfunction in Parkinson's Disease*

Brigham and Women's Hospital

mlavoie@rics.bwh.harvard.edu

Nathan D. Lawson, Ph.D.
(2003 Award Recipient)
Genetic Dissection of the Vascular Endothelial Growth Factor Signaling Pathway
University of Massachusetts Medical School
nathan.lawson@umassmed.edu

Michael Jungho Lee, Ph.D.
(2014 Award Recipient)
Micro-Environmental Regulation of Network State and Drug Sensitivity in Triple-Negative Breast Cancer
University of Massachusetts Medical School
michael.lee@umassmed.edu

Jacqueline A. Lees, Ph.D.
(1995 Award Recipient)
The Role of pRB and E2F in Tumorigenesis
Massachusetts Institute of Technology
jalees@mit.edu

Bernardo Lemos, Ph.D.
(2013 Award Recipient)
Heterochromatin Variation, Bisphenol A sensitivity, and Environmental Epigenomics
Harvard School of Public Health
blemos@hsph.harvard.edu

Anthony Letai, M.D., Ph.D.
(2004 Award Recipient)
Decoding BCL-2 Family Interactions to Promote Cancer Cell Death
Dana-Farber Cancer Institute
anthony_letai@dfci.harvard.edu

Michael Levin, Ph.D.
(2001 Award Recipient)
The Role of Katp ion Channels in Embryonic Development
Tufts University
michael.levin@tufts.edu

Laura Lewis, Ph.D.
(2019 Award Recipient)
Whole-brain dopamine dynamics underlying sleep and wakefulness
Boston University
ldlewis@bu.edu

Gene-Wei Li, Ph.D.
(2016 Award Recipient)
Breaking the Robustness of Bacterial Translation
Massachusetts Institute of Technology
gwli@mit.edu

Rong Li, Ph.D.
(1995 Award Recipient)
The Role of Cdc42 in Actin Cytoskeleton Assembly
Stowers Institute for Medical Research
rli@stowers.org

Maofu Liao, Ph.D.
(2016 Award Recipient)
Cryo-EM Studies of Multidrug Resistance Conferred by Human ABC Transporters
Harvard Medical School
liaomaofu@gmail.com

Stuart Licht, Ph.D.
(2002 Award Recipient)
Interactions of Sulfonylurea Anti-Diabetic Agents with the ATP-Sensitive Potassium Channel
Sanofi-Aventis
stuart.licht@sanofi-aventis.com

Tami Lieberman, Ph.D.
(2018 Award Recipient)
Determinants of Bacterial Colonization of Facial Skin
Massachusetts Institute of Technology
tami@mit.edu

Klaus Lindpaintner, M.D.
(1993 Award Recipient)
Molecular Genetics of Hypertension and Stroke
Thermo Fisher Scientific
klaus.lindpaintner@thermofisher.com

Myra Lipes, M.D.
(1994 Award Recipient)
A Transgenic Approach to the Study of Tolerance Induction in Type I Diabetes
Joslin Diabetes Center
myra.lipes@joslin.harvard.edu

Joseph J. Loparo, Ph.D.
(2011 Award Recipient)
Exploring the Molecular Mechanisms of Translesion DNA Synthesis through Single-Molecule Microscopy
Harvard Medical School
joseph_loparo@hms.harvard.edu

Bradford B. Lowell, M.D., Ph.D.
(1994 Award Recipient)
The B3-Adrenergic Receptor: A Gene Knockout Analysis of Function
Beth Israel Deaconess Medical Center
blowell@bidmc.harvard.edu

Gavin MacBeath, Ph.D.
(2002 Award Recipient)
Towards the System-Wide Study of Neuronally- Expressed PDZ Domains
Merrimack Pharmaceuticals
gmacbeath@merrimackpharma.com

Sibongile Mafu, Ph.D.
(2018 Award Recipient)
Discovery and Mechanism of Plant-Derived Antifungals
University of Massachusetts Amherst
smafu@umass.edu

Amity Lynn Manning, Ph.D.
(2017 Award Recipient)
Epigenetic Regulation of Mitotic Fidelity
Worcester Polytechnic Institute
almanning@wpi.edu

Katherine M. Martien, M.D.
(2000 Award Recipient)
The Efficacy of Valproic Acid in the Treatment of Autism Associated with Regression and/or Severe Sleep Disturbance
LADDERS Clinic
kmartien@partners.org

Steven A. McCarroll, Ph.D.
(2010 Award Recipient)
Finding the Human Genome's Missing Pieces
Harvard Medical School
mccarroll@genetics.med.harvard.edu

Andrea I. McClatchey, Ph.D.
(1999 Award Recipient)
Identification of the Molecular Function of the NF2 Tumor Suppressor, Merlin
Massachusetts General Hospital
mcclatch@helix.mgh.harvard.edu

David E. Moller, M.D.
(1992 Award Recipient)
Molecular Genetic Analysis of Candidate P.O. Genes for Insulin Resistance
Eli Lilly and Company
mollerda@lilly.com

Babak Momeni, Ph.D.
(2017 Award Recipient)
Elucidating the Molecular Mechanisms of Microbial Interactions Using Tn-Seq
Boston College
momeni@bc.edu

Melissa J. Moore, Ph.D.
(1994 Award Recipient)
Dynamics of Protein-RNA Interaction in the Mammalian Spliceosome
University of Massachusetts Medical School
melissa.moore@umassmed.edu

Martin G. Myers, M.D., Ph.D.
(1998 Award Recipient)
Molecular Determinants of Leptin Receptor/Jak2 Signaling
University of Michigan Medical School
mgy Myers@umich.edu

Sarah E. O'Connor, Ph.D.
(2003 Award Recipient)
Human Biosynthesis of Alkaloids: Chemical Inducers of Parkinson's Disease
The John Innes Center
Sarah.O'Connor@jic.ac.uk

Jose Ordovas-Montanes, Ph.D.
(2019 Award Recipient)
Inflammatory Memory and Adaptation in Human Intestinal Epithelial Stem Cells
Boston Children's Hospital
Jose.Ordovas-Montanes@childrens.harvard.edu

Lauren Orefice, Ph.D.
(2019 Award Recipient)
Development, Function and Dysfunction of Peripheral Sensory Neurons: Insights for Autism Spectrum Disorders
Massachusetts General Hospital
orefice@molbio.mgh.harvard.edu

Noah Wolcott Palm, Ph.D.
(2016 Award Recipient)
A Universal Genetic Toolkit to Illuminate Host-Microbiota Interactions
Yale University
noah.palm@yale.edu

Suzanne Paradis, Ph.D.
(2008 Award Recipient)
Dissecting the Function of Semaphorin 4B in Excitatory and Inhibitory Synapse Formation
Brandeis University
paradis@brandeis.edu

Sareh Parangi, M.D.
(1999 Award Recipient)
Antiangiogenic Therapy, A Novel Therapy for Pancreatic Cancer
Massachusetts General Hospital
sparangi@partners.org

Christopher L. Passaglia, Ph.D.
(2005 Award Recipient)
Retinal Coding of Visual Information in Glaucomatous Eyes
University of South Florida
passaglia@usf.edu

R. Christopher Pierce, Ph.D.
(1999 Award Recipient)
Neurotrophins and Cocaine Addiction
University of Pennsylvania School of Medicine
rcpierce@mail.med.upenn.edu

Emmanuel N. Pothos, Ph.D.
(2002 Award Recipient)
The Effects of Dietary Obesity on CNS Reward Systems
Tufts University School of Medicine
Emmanuel.Pothos@tufts.edu

Sridhar Ramaswamy, M.D.
(2002 Award Recipient)
Molecular Diagnostics for Cancer Metastasis
Massachusetts General Hospital Cancer Center
sridhar@mgh.harvard.edu

Peter W. Reddien, Ph.D.

(2006 Award Recipient)

Regulation of Stem Cells for Regeneration in Planarians

Whitehead Institute for Biomedical Research

reddien@wi.mit.edu

Nicholas Rhind, Ph.D.

(2001 Award Recipient)

The Role of Induced Recombination in the Fission Yeast S-phase DNA Damage Checkpoint

University of Massachusetts Medical School

nick.rhind@umassmed.edu

John Rinn, Ph.D.

(2008 Award Recipient)

Large Intergenic Non-Coding RNAs in Cancer

Harvard University

john_rinn@harvard.edu

Tobias Ritter, Ph.D.

(2008 Award Recipient)

Approach to Access Positron-Emission-Tomography (PET) Tracers for Molecular Imaging

Harvard University

ritter@chemistry.harvard.edu

W. Benjamin Rogers, Ph.D.

(2017 Award Recipient)

Developing DNA Nanotechnology Tools for Probing RNA Secondary Structure and RNA-Protein Interactions

Brandeis University

wrogers@brandeis.edu

Silvia Rouskin, Ph.D.

(2016 Award Recipient)

Identifying the Factors Required for mRNA Localization During Metazoan Development

Whitehead Institute for Biomedical Research

srouskin@wi.mit.edu

Sandra Ryeom, Ph.D.

(2005 Award Recipient)

Cancer Protection by the Down Syndrome Candidate Region-1 Gene

University of Pennsylvania School of Medicine

sryeom@upenn.edu

Bernardo L. Sabatini, M.D., Ph.D.

(2001 Award Recipient)

The Role of Regulated Protein Translation in Synapse Formation and Spine Growth

Harvard Medical School

Bernardo_Sabatini@hms.harvard.edu

Adrian Salic, Ph.D.

(2005 Award Recipient)

Chromosome Segregation in Vertebrates: A Multidisciplinary Approach to Understanding Kinetochores Function and Centromeric Cohesion

Harvard Medical School

adrian_salic@hms.harvard.edu

Susan L. Santangelo, Sc.D.

(July 1997 Award Recipient)

Extremely Discordant Sib-Pairs to Search for Autism Genes

Massachusetts General Hospital

ssantangelo@pngu.mgh.harvard.edu

Rebecca A Scheck, Ph.D.

(2014 Award Recipient)

Mapping the Uncharted: Encodable Chemistry to Discover the Role of Glycation in Disease

Tufts University

rebecca.scheck@tufts.edu

Gabriela Schlau-Cohen, Ph.D.
(2015 Award Recipient)
A Biophysical Toolkit to Explore Bacteria Chemotaxis
Massachusetts Institute of Technology
gssc@mit.edu

Dietmar Schmucker, Ph.D.
(2001 Award Recipient)
Function of the Molecular Diversity of Neuronal Receptors
VIB Vesalius Research Center
dietmar.schmucker@vib-kuleuven.be

Gavin R. Schnitzler, Ph.D.
(2000 Award Recipient)
Human Chromatin Remodeling Complexes and Transcriptional Control
Tufts University School of Medicine
gschnitzler@tuftsmedicalcenter.org

David C. Seldin, M.D., Ph.D.
(1996 Award Recipient)
Casein Kinase II and Lymphomagenesis in Transgenic Mice
Boston University Medical Center

Piali Sengupta, Ph.D.
(1997 Award Recipient)
*Role of Nuclear Receptors in the Chemosensory System of *C. elegans**
Brandeis University
sengupta@brandeis.edu

Matthew D. Shair, Ph.D.
(1997 Award Recipient)
Discovery of Small Molecules which Disrupt Protein-Protein Interactions
Harvard University
shair@chemistry.harvard.edu

Sichen Shao, Ph.D.
(2017 Award Recipient)
Mechanistic Dissection of Tail-Anchored Membrane Protein Sorting
Harvard Medical School
sichen_shao@hms.harvard.edu

Ann M. Sheehy, Ph.D.
(2007 Award Recipient)
Harnessing the Power of the Anti-HIV Protein APOBEC3G
College of the Holy Cross
asheehy@holycross.edu

Michael Y. Sherman, Ph.D.
(1996 Award Recipient)
Molecular Chaperones and Degradation of Oxidatively Damaged Proteins
Boston University School of Medicine
sherma1@bu.edu

Ramesh A. Shivdasani, M.D., Ph.D.
(1997 Award Recipient)
Identification and Characterization of Genes that Regulate Vertebrate Gut Epithelial Cell Differentiation
Dana-Farber Cancer Institute
ramesh_shivdasani@dfci.harvard.edu

Matthew Donald Shoulders, Ph.D.
(2013 Award Recipient)
Hijacking the Host Cell's Protein Homeostasis Network to Potentiate Viral Evolution
Massachusetts Institute of Technology
mshoulde@mit.edu

Sergei Y. Sokol, Ph.D.
(1994 Award Recipient)
*The Dishevelled Gene Product and the Establishment of Dorso-Ventral Polarity in *Xenopus* Embryos*
Mount Sinai School of Medicine
sergei.sokol@mssm.edu

Bryan Spring, Ph.D.

(2017 Award Recipient)

*Peering into Cancer Stem Cell Niches to Guide
Suppression of Multiple Signaling Loop
Pathways*

Northeastern University

b.spring@northeastern.edu

Mansi Srivastava, Ph.D.

(2016 Award Recipient)

*Cellular Dynamics and Regulation of
Pluripotent Stem Cells in vivo*

Harvard University

mansi@oeb.harvard.edu

Kimberly Stegmaier, M.D.

(2007 Award Recipient)

*Chemical Genomic Approach to Modulating
Oncogenic Transcription Factors*

Dana-Farber Cancer Institute

Kimberly_Stegmaier@dfci.harvard.edu

Beth Stevens, Ph.D.

(2008 Award Recipient)

*The Role of the Complement Cascade in
Eliminating Synapses during Development
and Disease*

Boston Children's Hospital

beth.stevens@childrens.harvard.edu

Radhika Subramanian, Ph.D.

(2015 Award Recipient)

*Building a Cilium for Intercellular Signaling in
Vitro Reconstitution of the Hedgehog
Signaling Pathway*

Massachusetts General Hospital

radhika@molbio.mgh.harvard.edu

Masahiko Sugita, M.D.

(2000 Award Recipient)

*A Novel Pathway for Lipid Antigen
Presentation by CD1 Molecules*

Kyoto University

msugita@virus.kyoto-u.ac.jp

Elsie M. Sunderland, Ph.D.

(2012 Award Recipient)

*Sources, Trends and Effects of Immunotoxic
Perfluorinated Compounds*

Harvard School of Public Health

esunder@hsph.harvard.edu

Mario Luca Suva, M.D., Ph.D.

(2014 Award Recipient)

*Uncovering the Role of Epigenetic
Programs in Glioblastoma*

Massachusetts General Hospital

Suva.Mario@mgh.harvard.edu

Sam Thiagalingam, Ph.D.

(2000 Award Recipient)

*hBUB1, an Alternate Target for p53
Inactivation*

Boston University School of Medicine

samthia@bu.edu

Stefan Thor, Ph.D.

(2000 Award Recipient)

*Specification of Neuronal Cell Identities
during Drosophila Embryogenesis*

Linköping University

stefan.thor@liu.se

Alex Toker, Ph.D.

(1998 Award Recipient)

*The Role of Protein Kinase C in Integrin-
Mediated Tumor Invasion*

Beth Israel Deaconess Medical Center

atoker@bidmc.harvard.edu

Eduardo M. Torres, Ph.D.

(2012 Award Recipient)

*Role of Protein Turnover Pathways in
Aneuploid Cells*

University of Massachusetts Medical School

eduardo.torres@umassmed.edu

Shannon J. Turley, Ph.D.

(2005 Award Recipient)

Targeting IkappaB Kinase in Dendritic Cells to Prevent Pancreatic Cancer

Genentech

turley.shannon@gene.com

Naoshige Uchida, Ph.D.

(2007 Award Recipient)

Elucidating Neural Circuits Underlying Decision-Making in Rodents

Harvard University

uchida@mcb.harvard.edu

Sander van den Heuvel, Ph.D.

(1998 Award Recipient)

Genetic Analysis of Cell-Cycle Regulation and Checkpoint Control

Utrecht University

s.j.l.vandenHeuvel@uu.nl

David Van Vactor, Ph.D.

(1997 Award Recipient)

Molecular Analysis of Fastlane, a Novel Gene Required for Specific Axon Guidance

Harvard Medical School

davie_vanvactor@hms.harvard.edu

Matthew G. Vander Heiden, M.D., Ph.D.

(2010 Award Recipient)

The Impact of Pyruvate Kinase Activity on Cancer Cell Metabolism and Tumor Growth In Vivo

Massachusetts Institute of Technology

mvh@mit.edu

Shobha Vasudevan, Ph.D.

(2010 Award Recipient)

Regulation of Quiescence by MicroRNAs

Massachusetts General Hospital

vasudevan.shobha@mgh.harvard.edu

Douglas E. Vetter, Ph.D.

(2001 Award Recipient)

A Transgenic and Proteomic Analysis of Olivocochlear System Function and Development

The University of Mississippi Medical Center

dvetter@umc.edu

Amy J. Wagers, Ph.D.

(2004 Award Recipient)

Intrinsic and Extrinsic Regulators of Hematopoietic Stem Cell Function

Joslin Diabetes Center

amy.wagers@joslin.harvard.edu

Yong-Xu Wang, Ph.D.

(2006 Award Recipient)

Transcriptional Control of Hepatic Gluconeogenesis by Twist-1

University of Massachusetts Medical School

yongxu.wang@umassmed.edu

Hongwei Wang, Ph.D.

(2009 Award Recipient)

Structure and Mechanism of the Human RISC-Loading Complex

Yale University

hongwei.wang@yale.edu

Steven Warach, M.D., Ph.D.

(1993 Award Recipient)

Distinguishing Reversible from Irreversible Ischemic Neuronal Injury

Seton/UT Southwestern Medical Center

swarach@seton.org

H. Christian Weber, M.D.

(1999 Award Recipient)

Human Gastrin-Releasing Peptide Receptor Gene Regulation

Boston University School of Medicine

christian.weber@bmc.org

Eranthie Weerapana, Ph.D.

(2011 Award Recipient)

Activity-Based Proteomic Approaches to Investigate Aging in C. Elegans

Boston College

eranthie@bc.edu

Lee Zou, Ph.D.

(2004 Award Recipient)

Sensing and Signaling DNA Damage in Human Cells

Massachusetts General Hospital

zou.lee@mgh.harvard.edu

Kristin White, Ph.D.

(1996 Award Recipient)

Genetic Control of Apoptosis in Drosophila

Massachusetts General Hospital

kwhite4@partners.org

Jessica LaMae Whited, Ph.D.

(2013 Award Recipient)

Understanding Information-Encoding During Salamander Limb Regeneration

Brigham and Women's Hospital

jwhited@partners.org

Rachel I. Wilson, Ph.D.

(2004 Award Recipient)

Synaptic Mechanisms of Chemical Stimulus Encoding

Harvard Medical School

Rachel_Wilson@hms.harvard.edu

Florian Winau, M.D.

(2009 Award Recipient)

Hepatic Stellate Cells Instruct Lymphoid Progenitors to Home to the Thymus

Immune Disease Institute

florian.winau@childrens.harvard.edu

Yong Xiong, Ph.D.

(2006 Award Recipient)

Mechanisms of HIV Suppression by Human Antiviral Protein APOBEC3G and HIV's Countermeasures

Yale University

yong.xiong@yale.edu