

Smith Family Awards Program for Excellence in Biomedical Research

A PROGRAM OF THE RICHARD AND SUSAN SMITH FAMILY FOUNDATION



Alumni Directory

1992 - 2016

Updated, 2/2017

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 25 years, the Smith Family Awards Program for Excellence in Biomedical Research has helped launch the careers of 157 outstanding scientists with support totaling \$31.1 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.

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

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

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

Steven R. Grossman, Ph.D., M.D.
(2000 Award Recipient)
*Purification and Analysis of a p53-Targeted
Ubiquitin Ligase*
Virginia Commonwealth University
sgrossman@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

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

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

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

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

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

mclatch@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

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

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

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 Kinetochore 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

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

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 I κ B 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

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

Lee Zou, Ph.D.

(2004 Award Recipient)

*Sensing and Signaling DNA Damage in
Human Cells*

Massachusetts General Hospital

zou.lee@mgh.harvard.edu