

Smith Family Awards Program for Excellence in Biomedical Research

A PROGRAM OF THE RICHARD AND SUSAN SMITH FAMILY FOUNDATION



Alumni Directory

1992 - 2025

Updated, 4/2025

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 \$400,000 over three years.

Over the past 30 years, the Smith Family Awards Program for Excellence in Biomedical Research has helped launch the careers of 202 outstanding scientists with support totaling \$46.1 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.

Cristina Aguayo-Mazzucato, M.D., Ph.D.

(2021 Award Recipient)

Targeting Beta-Cell Senescence in Diabetes

Joslin Diabetes Center

cristina.aguayo-mazzucato@joslin.harvard.edu

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

Raghu Chivukula, M.D., Ph.D.

(2024 Award Recipient)

Elucidating the Molecular Basis of GGC Repeat Expansion Disorders

Massachusetts General Hospital

rchivukula@mgh.harvard.edu

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

Steven Chuck, M.D.

(1997 Award Recipient)

Regulation of Apolipoprotein B Secretion

Gilead Sciences

steven.chuck@gilead.com

Damon Alistair Clark, Ph.D.

(2013 Award Recipient)

*Dissecting Motor Pattern Generating Circuits
in Walking Drosophila*

Yale University

damon.clark@yale.edu

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

Josefina del Marmol, Ph.D.

(2023 Award Recipient)

*Structural Determinants of Odor Transduction
in the Disease Vector Mosquito Anopheles
gambiae*

Harvard Medical School

Josefina_delMarmol@hms.harvard.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

Carolyn Elya, Ph.D.

(2025 Award Recipient)

*Leveraging Nature's "Zombies" to
Understand Mechanisms Driving Animal
Behavior*

Harvard University

cnelya@fas.harvard.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*

Lucas Farnung, Ph.D.

(2022 Award Recipient)

*Elucidating the Mechanism of Co-
transcriptional Histone Mark Deposition*

Harvard Medical School

lucas_farnung@hms.harvard.edu

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

Ana Fiszbein, Ph.D.

(2022 Award Recipient)

Evolution and Regulation of Hybrid Exons

Boston University

anafisz@bu.edu

Josué Flores Kim, Ph.D.

(2023 Award Recipient)

*Bacterial Cell Envelope Remodeling as a
Conserved Strategy for Modulating Antibiotic*

Tolerance and Virulence Factor Assembly

University of Massachusetts Medical School

Josue.FloresKim3@umassmed.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

Christine Grienberger, M.D., Ph.D.

(2022 Award Recipient)

The Biophysical Basis of Neural Circuit Dynamics during Learning

Brandeis University

cgrienberger@brandeis.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

Carolyn Elya, Ph.D.

(2025 Award Recipient)

Defining the Molecular Determinants and Evolution of Pathogenicity in a Human Fungal Pathogen

Boston College

zoe.hilbert@bc.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

Naama Kanarek, Ph.D.

(2022 Award Recipient)

The cellular response to folate deprivation; sensing and signaling for survival in a folate-poor environment

Boston Children's Hospital

naama.kanarek@childrens.harvard.edu

Karla R Kaun, Ph.D.

(2014 Award Recipient)

Neuro-molecular Mechanisms Underlying Alcoholism

Brown University

karla_kaun@brown.edu

Nora Kory, Ph.D.

(2024 Award Recipient)

Mitochondrial Transporters as Sensors and Responders to Shifting Environments

Harvard T.H. Chan School of Public Health

nkory@hsph.harvard.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

Sanghyun Lee, Ph.D.

(2021 Award Recipient)

A Focused Approach to Identify Entry Factors for Pathogenic Enteric Viruses Using CRISPR Activation Screening

Brown University

sanghyun_lee@brown.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

Julia Li, Ph.D.

(2025 Award Recipient)

A Previously Missing Link between Repeat DNA, Genomic Instability, and Viruses

Boston Children's Hospital

Julia.Li@childrens.harvard.edu

Rong Li, Ph.D.

(1995 Award Recipient)

The Role of Cdc42 in Actin Cytoskeleton Assembly

Stowers Institute for Medical Research

rli@stowers.org

Liang Liang, Ph.D.

(2021 Award Recipient)

Early Visual Centers Coordinate to Shape the Flow of Information

Yale University

liang.liang@yale.edu

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

Richard Liu, Ph.D.

(2023 Award Recipient)

Breaking the Metal Barrier: Safe and Rapid Radiopharmaceutical Synthesis Using Organic Pseudometals

Harvard University

richardliu@chemistry.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

Kara Lavidge McKinley, Ph.D.
(2021 Award Recipient)
Molecular Mechanisms Underlying Uterine Regeneration
Harvard University
kara.l.mckinley@gmail.com

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
mgmyers@umich.edu

Ryan Nett, Ph.D.
(2024 Award Recipient)
Deciphering the Biosynthetic Chemistry of Plant-derived Medicines
Harvard University
rnett@fas.harvard.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 Ordoas-Montanes, Ph.D.
(2019 Award Recipient)
Inflammatory Memory and Adaptation in Human Intestinal Epithelial Stem Cells
Boston Children's Hospital
Jose.Ordoas-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

Megan Orzalli, Ph.D.
(2022 Award Recipient)
The role of tonic interferon signaling in cutaneous antiviral defense
University of Massachusetts Medical School
megan.orzalli@umassmed.edu

Noah Wolcott Palm, Ph.D.

(2016 Award Recipient)

*A Universal Genetic Toolkit to Illuminate
Host-Microbiota Interactions*

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Suzanne Paradis, Ph.D.

(2008 Award Recipient)

*Dissecting the Function of Semaphorin 4B in
Excitatory and Inhibitory Synapse Formation*

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Sareh Parangi, M.D.

(1999 Award Recipient)

*Antiangiogenic Therapy, A Novel Therapy for
Pancreatic Cancer*

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Christopher L. Passaglia, Ph.D.

(2005 Award Recipient)

*Retinal Coding of Visual Information in
Glaucomatous Eyes*

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R. Christopher Pierce, Ph.D.

(1999 Award Recipient)

Neurotrophins and Cocaine Addiction

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Emmanuel N. Pothos, Ph.D.

(2002 Award Recipient)

*The Effects of Dietary Obesity on CNS Reward
Systems*

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Sara Prescott, Ph.D.

(2024 Award Recipient)

*The Rich, Unexplored Diversity of Airway
Intrinsic Neurons*

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Sridhar Ramaswamy, M.D.

(2002 Award Recipient)

Molecular Diagnostics for Cancer Metastasis

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Peter W. Reddien, Ph.D.

(2006 Award Recipient)

*Regulation of Stem Cells for Regeneration in
Planarians*

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Nicholas Rhind, Ph.D.

(2001 Award Recipient)

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

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John Rinn, Ph.D.

(2008 Award Recipient)

Large Intergenic Non-Coding RNAs in Cancer

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Tobias Ritter, Ph.D.

(2008 Award Recipient)

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

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W. Benjamin Rogers, Ph.D.

(2017 Award Recipient)

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

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Silvia Rouskin, Ph.D.

(2016 Award Recipient)

Identifying the Factors Required for mRNA Localization During Metazoan Development

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Sandra Ryeom, Ph.D.

(2005 Award Recipient)

Cancer Protection by the Down Syndrome Candidate Region-1 Gene

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Adrian Salic, Ph.D.

(2005 Award Recipient)

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

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Susan L. Santangelo, Sc.D.

(July 1997 Award Recipient)

Extremely Discordant Sib-Pairs to Search for Autism Genes

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Rebecca A Scheck, Ph.D.

(2014 Award Recipient)

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

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Gabriela Schlau-Cohen, Ph.D.

(2015 Award Recipient)

A Biophysical Toolkit to Explore Bacteria Chemotaxis

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Dietmar Schmucker, Ph.D.

(2001 Award Recipient)

Function of the Molecular Diversity of Neuronal Receptors

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Gavin R. Schnitzler, Ph.D.

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Human Chromatin Remodeling Complexes and Transcriptional Control

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David C. Seldin, M.D., Ph.D.

(1996 Award Recipient)

Casein Kinase II and Lymphomagenesis in Transgenic Mice

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Piali Sengupta, Ph.D.

(1997 Award Recipient)

Role of Nuclear Receptors in the Chemosensory System of C. elegans

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Matthew D. Shair, Ph.D.

(1997 Award Recipient)

Discovery of Small Molecules which Disrupt Protein-Protein Interactions

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Sichen Shao, Ph.D.

(2017 Award Recipient)

Mechanistic Dissection of Tail-Anchored Membrane Protein Sorting

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Ann M. Sheehy, Ph.D.

(2007 Award Recipient)

Harnessing the Power of the Anti-HIV Protein APOBEC3G

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Michael Y. Sherman, Ph.D.

(1996 Award Recipient)

Molecular Chaperones and Degradation of Oxidatively Damaged Proteins

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Ramesh A. Shivdasani, M.D., Ph.D.

(1997 Award Recipient)

Identification and Characterization of Genes that Regulate Vertebrate Gut Epithelial Cell Differentiation

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Matthew Donald Shoulders, Ph.D.

(2013 Award Recipient)

Hijacking the Host Cell's Protein Homeostasis Network to Potentiate Viral Evolution

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Sergei Y. Sokol, Ph.D.

(1994 Award Recipient)

The Dishevelled Gene Product and the Establishment of Dorso-Ventral Polarity in Xenopus Embryos

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Berna Sozen, Ph.D.

(2022 Award Recipient)

Deciphering Principles of Human Embryonic Patterning in Development and Disease

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Jessica Spinelli, Ph.D.

(2023 Award Recipient)

Elucidating Novel Circuits of Electron Flow in the Mammalian Electron Transport Chain

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Bryan Spring, Ph.D.

(2017 Award Recipient)

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

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Mansi Srivastava, Ph.D.

(2016 Award Recipient)

Cellular Dynamics and Regulation of Pluripotent Stem Cells in vivo

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Kimberly Stegmaier, M.D.

(2007 Award Recipient)

Chemical Genomic Approach to Modulating Oncogenic Transcription Factors

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Beth Stevens, Ph.D.

(2008 Award Recipient)

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

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Radhika Subramanian, Ph.D.

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

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Masahiko Sugita, M.D.

(2000 Award Recipient)

A Novel Pathway for Lipid Antigen Presentation by CD1 Molecules

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Elsie M. Sunderland, Ph.D.

(2012 Award Recipient)

Sources, Trends and Effects of Immunotoxic Perfluorinated Compounds

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

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Uncovering the Role of Epigenetic Programs in Glioblastoma

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Sam Thiagalingam, Ph.D.

(2000 Award Recipient)

hBUB1, an Alternate Target for p53 Inactivation

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Stefan Thor, Ph.D.

(2000 Award Recipient)

Specification of Neuronal Cell Identities during Drosophila Embryogenesis

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Alex Toker, Ph.D.

(1998 Award Recipient)

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

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Eduardo M. Torres, Ph.D.

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Role of Protein Turnover Pathways in Aneuploid Cells

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Shannon J. Turley, Ph.D.

(2005 Award Recipient)

Targeting IkappaB Kinase in Dendritic Cells to Prevent Pancreatic Cancer

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Naoshige Uchida, Ph.D.

(2007 Award Recipient)

Elucidating Neural Circuits Underlying Decision-Making in Rodents

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(2021 Award Recipient)

Regulation of Anaphylactic IgE Promoting Tfh13 Cell Subset in Allergic Sensitization

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Sander van den Heuvel, Ph.D.

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Genetic Analysis of Cell-Cycle Regulation and Checkpoint Control

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David Van Vactor, Ph.D.

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

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

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Regulation of Quiescence by MicroRNAs

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Douglas E. Vetter, Ph.D.

(2001 Award Recipient)

A Transgenic and Proteomic Analysis of Olivocochlear System Function and Development

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Seychelle M. Vos, Ph.D.

(2021 Award Recipient)

Elucidating How Genome Organization Influences Gene Expression

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(2004 Award Recipient)

Intrinsic and Extrinsic Regulators of Hematopoietic Stem Cell Function

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Yong-Xu Wang, Ph.D.

(2006 Award Recipient)

Transcriptional Control of Hepatic Gluconeogenesis by Twist-1

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Hongwei Wang, Ph.D.

(2009 Award Recipient)

Structure and Mechanism of the Human RISC-Loading Complex

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

(1993 Award Recipient)

Distinguishing Reversible from Irreversible Ischemic Neuronal Injury

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H. Christian Weber, M.D.

(1999 Award Recipient)

Human Gastrin-Releasing Peptide Receptor Gene Regulation

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Eranthie Weerapana, Ph.D.

(2011 Award Recipient)

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

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Kristin White, Ph.D.

(1996 Award Recipient)

Genetic Control of Apoptosis in Drosophila

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Jessica LaMae Whited, Ph.D.

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Understanding Information-Encoding During

Salamander Limb Regeneration

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Rachel I. Wilson, Ph.D.

(2004 Award Recipient)

Synaptic Mechanisms of Chemical Stimulus

Encoding

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Florian Winau, M.D.

(2009 Award Recipient)

Hepatic Stellate Cells Instruct Lymphoid

Progenitors to Home to the Thymus

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Rachel Wolfson, M.D., Ph.D.

(2025 Award Recipient)

Defining the Cellular Basis of Pancreatic

Sensation

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Gregory Wyant, Ph.D.

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Nutrient and Oxygen Control of Skeletal

Muscle Size

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Yong Xiong, Ph.D.

(2006 Award Recipient)

Mechanisms of HIV Suppression by Human

Antiviral Protein APOBEC3G and HIV's

Countermeasures

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Hannah Yevick, Ph.D.

(2024 Award Recipient)

Investigating the Role of Multinucleation in

Achieving a Mechanically Robust Maternal

Fetal Barrier

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Meg Younger, Ph.D.

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Non-Canonical Odor Coding in Mosquitoes

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Sensing and Signaling DNA Damage in

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