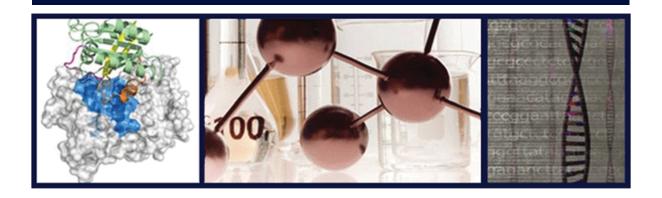
Smith Family Awards Program for Excellence in Biomedical Research

A PROGRAM OF THE RICHARD AND SUSAN SMITH FAMILY FOUNDATION



Alumni Directory

1992 - 2021

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 30 years, the Smith Family Awards Program for Excellence in Biomedical Research has helped launch the careers of 181 outstanding scientists with support totaling \$38.3 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 Resaerch

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 adn 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
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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 HighResolution Dynamic Imaging
Harvard University
egarner@g.harvard.edu

Frank B. Gertler, Ph.D.

(1998 Award Recipient)

Mena Function in Tumor Cell Biology and

Metatasis

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
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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-ß 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

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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

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
Idlewis@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

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 Sulfonyluria 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 SingleMolecule 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

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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

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.OrdovasMontanes@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

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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 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 Sortina 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

Molecular Chaperones and Degradation of Oxidatively Damaged Proteins
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(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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Bryan Spring, Ph.D.

(2017 Award Recipient)
Peering into Cancer Stem Cell Niches to Guide
Suppression of Multiple Signaling Loop
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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.

(2015 Award Recipient)
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.

(2014 Award Recipient)

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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(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 IntegrinMediated Tumor Invasion
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(2012 Award Recipient)
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.

(1997 Award Recipient)

Molecular Analysis of Fastlane, a Novel Gene
Required for Specific Axon Guidance
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(2010 Award Recipient)

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

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(2010 Award Recipient)

Regulation of Quiescence by MicroRNAs

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(2001 Award Recipient)

A Transgenic and Proteomic Analysis of
Olivocochlear System Function and
Development
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(2021 Award Recipient)

Elucidating How Genome Organization
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Intrinsic and Extrinsic Regulators of
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Transcriptional Control of Hepatic

Gluconeogenesis by Twist-1

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(2009 Award Recipient)

Structure and Mechanism of the Human RISCLoading 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
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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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(1996 Award Recipient)

Genetic Control of Apoptosis in Drosophila

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Jessica LaMae Whited, Ph.D.

(2013 Award Recipient)

Understanding Information-Encoding During
Salamander Limb Regeneration

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(2004 Award Recipient)
Synaptic Mechanisms of Chemical Stimulus
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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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Yong Xiong, Ph.D.

(2006 Award Recipient)

Mechanisms of HIV Suppression by Human

Antiviral Protein APOBEC3G and HIV's

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Lee Zou, Ph.D.

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Sensing and Signaling DNA Damage in
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