

Smith Family Awards Program for Excellence in Biomedical Research

A PROGRAM OF THE RICHARD AND SUSAN SMITH FAMILY FOUNDATION



Alumni Directory

1992 - 2023

Updated, 4/2023

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 192 outstanding scientists with support totaling \$42.1 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

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

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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

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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

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Josefina del Marmol, Ph.D.

(2023 Award Recipient)

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

Harvard Medical School

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Walter E. Demkowicz, Ph.D.

(1995 Award Recipient)

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

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Li Deng, Ph.D.

(1999 Award Recipient)

A Chemical Approach Toward Understanding DNA Modification

Brandeis University

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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

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Elaine A. Elion, Ph.D.

(1992 Award Recipient)

Mechanisms of Negative Growth Control in Saccharomyces cerevisiae

Harvard Medical School

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Patrick T. Ellinor, M.D., Ph.D.
(2003 Award Recipient)
The Genetics of Atrial Fibrillation: Exploration of Endophenotypes
Massachusetts General Hospital
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Sean Elliott, Ph.D.
(2004 Award Recipient)
Thioredoxins, Thioredoxin Reductase and the Mechanisms of Oxidative Stress
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Patrick Emery, Ph.D.
(2002 Award Recipient)
Circadian Rhythms and their Synchronization in Drosophila
University of Massachusetts Medical School
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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
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Steven M. Finkbeiner, M.D., Ph.D.
(1998 Award Recipient)
Molecular Mechanisms of Huntington's Disease
Gladstone Institute of Neurological Disease
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Ana Fiszbein, Ph.D.
(2022 Award Recipient)
Evolution and Regulation of Hybrid Exons
Boston University
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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
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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
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Marc R. Freeman, Ph.D.
(2004 Award Recipient)
Characterizing Core Components of the Glial Cell Machinery
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Lillian Fritz-Laylin, Ph.D.
(2019 Award Recipient)
Defining Mechanisms of Pathogenesis of the "Brain-eating Amoeba"
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Robert C. Fuhlbrigge, M.D., Ph.D.
(1999 Award Recipient)
Regulation of CTCL Migration to Skin via CLA
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Jianmin Gao, Ph.D.
(2007 Award Recipient)
Understanding Beta Sheet Structure within the Membrane Bilayer
Boston College
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Neil Joseph Ganem, Ph.D.
(2014 Award Recipient)
Maintenance of Genome Stability by the Hippo Tumor Suppressor Pathway
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Timothy J. Gardner, Ph.D.
(2009 Award Recipient)
Exploring the Function of Sleep in Neural Circuit Formation
Boston University
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Ethan Clark Garner, Ph.D.
(2012 Award Recipient)
Building a Mechanistic Understanding of Bacterial Cell Wall Growth using High-Resolution Dynamic Imaging
Harvard University
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Frank B. Gertler, Ph.D.
(1998 Award Recipient)
Mena Function in Tumor Cell Biology and Metastasis
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Grace Gill, Ph.D.
(1996 Award Recipient)
Regulation of Cell Growth by Cellular EIA-Like Proteins
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Lisa V. Goodrich, Ph.D.
(2003 Award Recipient)
Cellular and Molecular Mechanisms of Sensory System Development
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Fotini Gounari, Ph.D., D.Sc.
(2003 Award Recipient)
Thymocyte Transformation in the DN to DP Transition
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Yonatan Grad, M.D., Ph.D.
(2015 Award Recipient)
*Genetic Networks of Antibiotic Resistance in *Neisseria gonorrhoeae**
Harvard School of Public Health
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Timothy E. Graham, M.D.
(2007 Award Recipient)
Stimulated by Retinoic Acid-6 (Stra6) and Insulin Resistance
University of Utah School of Medicine
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Christine Grienberger, M.D., Ph.D.
(2022 Award Recipient)
The Biophysical Basis of Neural Circuit Dynamics during Learning
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Nikolaus Grigorieff, M.Sc., Ph.D.
(2000 Award Recipient)
Structural Analysis of the Shaker Potassium Channel
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Paul Lieberman Greer, Ph.D.
(2018 Award Recipient)
Exploring the Role of a Novel Population of Microglia in Alzheimer's Disease
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Steven R. Grossman, Ph.D., M.D.
(2000 Award Recipient)
Purification and Analysis of a p53-Targeted Ubiquitin Ligase
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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
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Jeanne A. Hardy, Ph.D.
(2005 Award Recipient)
Designing Allosteric Switches in Caspases
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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
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Akiko Hata, Ph.D.
(2001 Award Recipient)
Mechanisms of TGF- β Signal Transduction
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Daniel N. Hebert, Ph.D.
(1998 Award Recipient)
Tyrosine Maturation and Degradation in Normal Melanocytes and Melanoma Cells
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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
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Joel Hirschhorn, M.D., Ph.D.
(2002 Award Recipient)
Comprehensive Evaluation of Reported Associations between Common Gene Variants and Obesity"
Boston Children's Hospital
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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

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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

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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

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

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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

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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 Sulfonylurea Anti-Diabetic Agents with the ATP-Sensitive Potassium Channel

Sanofi-Aventis

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Tami Lieberman, Ph.D.

(2018 Award Recipient)

Determinants of Bacterial Colonization of Facial Skin

Massachusetts Institute of Technology

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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

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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

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David E. Moller, M.D.

(1992 Award Recipient)

Molecular Genetic Analysis of Candidate P.O. Genes for Insulin Resistance

Eli Lilly and Company

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Babak Momeni, Ph.D.

(2017 Award Recipient)

Elucidating the Molecular Mechanisms of Microbial Interactions Using Tn-Seq

Boston College

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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
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Lauren Orefice, Ph.D.
(2019 Award Recipient)
Development, Function and Dysfunction of Peripheral Sensory Neurons: Insights for Autism Spectrum Disorders
Massachusetts General Hospital
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Megan Orzalli, Ph.D.
(2022 Award Recipient)
The role of tonic interferon signaling in cutaneous antiviral defense
University of Massachusetts Medical School
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Noah Wolcott Palm, Ph.D.
(2016 Award Recipient)
A Universal Genetic Toolkit to Illuminate Host-Microbiota Interactions
Yale University
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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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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.

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*Identifying the Factors Required for mRNA
Localization During Metazoan Development*

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Sandra Ryeom, Ph.D.

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*Cancer Protection by the Down Syndrome
Candidate Region-1 Gene*

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

(2001 Award Recipient)

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

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Adrian Salic, Ph.D.

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

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Susan L. Santangelo, Sc.D.

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*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.

(2000 Award Recipient)
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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(1997 Award Recipient)
Identification and Characterization of Genes that Regulate Vertebrate Gut Epithelial Cell Differentiation
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Matthew Donald Shoulders, Ph.D.

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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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(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.

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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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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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Role of Protein Turnover Pathways in Aneuploid Cells

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(2005 Award Recipient)

Targeting IkkappaB 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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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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(2001 Award Recipient)

A Transgenic and Proteomic Analysis of Olivocochlear System Function and Development

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Elucidating How Genome Organization Influences Gene Expression

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Intrinsic and Extrinsic Regulators of Hematopoietic Stem Cell Function

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(2006 Award Recipient)

Transcriptional Control of Hepatic Gluconeogenesis by Twist-1

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(2009 Award Recipient)

Structure and Mechanism of the Human RISC-Loading Complex

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(1993 Award Recipient)

Distinguishing Reversible from Irreversible Ischemic Neuronal Injury

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(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.

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Genetic Control of Apoptosis in Drosophila

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Understanding Information-Encoding During Salamander Limb Regeneration

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(2004 Award Recipient)

Synaptic Mechanisms of Chemical Stimulus Encoding

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Hepatic Stellate Cells Instruct Lymphoid Progenitors to Home to the Thymus

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(2006 Award Recipient)

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

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Meg Younger, Ph.D.

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Non-Canonical Odor Coding in Mosquitoes

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