

Smith Family Awards Program for Excellence in Biomedical Research

A PROGRAM OF THE RICHARD AND SUSAN SMITH FAMILY FOUNDATION



Award Recipient Directory

1992 - 2008

Updated, May 2009

Zoltan P. Arany, M.D., Ph.D.

Awardee, 2008

“PGC-1 and Cardiac Angiogenesis”

Key Words: Heart Failure, Angiogenesis, PGC-1alpha, Metabolism

Assistant Professor of Medicine
Cardiovascular Institute
Department of Medicine
Beth Israel Deaconess Medical Center
3 Blackfan Circle, CLS 906
Boston, MA 02115
617-735-4252
zarany@bidmc.harvard.edu

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

Awardee, 2004

“Multi-Step Pathogenesis of MLL-Rearranged Leukemias”

Key Words: Leukemia, FLT3, MLL, Stem Cells

Assistant Professor of Pediatrics
Harvard Medical School
Division of Hematology and Oncology
Children's Hospital Boston
Karp Research Labs, Room 08211
1 Blackfan Circle
Boston, MA 02115
617-919-2508
scott.armstrong@childrens.harvard.edu

Leslie J. Berg, Ph.D.

Awardee, 1993

“Analysis of the Tsk Tyrosine Kinase in Transgenic Mice”

Key Words: T Lymphocyte Activation, Signal Transduction, Transgenic/Knockout Mice, T Lymphocyte Development

Professor of Pathology
Department of Pathology, S3-143B
University of Massachusetts Medical School
55 Lake Avenue North
Worcester, MA 01655
508-856-8371
Leslie.Berg@umassmed.edu

Jonathan S. Bogan, M.D.

Awardee, 2000

“Role of ARF Proteins in GLUT4 Trafficking”

Key Words: Insulin, Protein Trafficking, Metabolism, Diabetes Mellitus, Ubiquitin-Like Proteins, Transporter Proteins

Assistant Professor of Medicine and Cell Biology
Department of Internal Medicine
Yale University School of Medicine
P.O. Box 208020, 333 Cedar Street
New Haven, CT 06520-8020
203-785-6319
jonathan.bogan@yale.edu

William A. Carlezon, Jr., Ph.D.

Awardee, 1999

“Neural Substrates of Aversion to Addictive Drugs”

Key Words: Addiction, Depression, Brain, Genes, Behavior, Rodent, Model

Associate Professor of Psychiatry and Neuroscience
Director, Behavioral Genetics Laboratory
McLean Hospital
115 Mill Street, MRC 217
Belmont, MA 02478
617-855-2021
carlezon@mclean.harvard.edu

Francis Ka-Ming Chan, Ph.D.

Awardee, 2003

“TNF-Induced Programmed Cell Death in Immune Responses”

Key Words: Tumor Necrosis Factor (TNF), TNF Receptors, TRAIL, Programmed Necrosis, Apoptosis, Cancers, Inflammation, Autoimmune Diseases

Assistant Professor
Department of Pathology
University of Massachusetts Medical School
55 Lake Avenue North, Room S2-125
Worcester, MA 01655
508-856-1664
francis.chan@umassmed.edu

Daniel L. Chase, Ph.D.

Awardee, 2006

“Electrophysiological Analysis of Novel Dopamine Signaling Mechanisms in *C. elegans*”

Key Words: Dopamine Signaling, Electrophysiology, *C. elegans*

Assistant Professor of Biochemistry and Molecular Biology

Department of Biochemistry and Molecular Biology
University of Massachusetts

710 North Pleasant Street, LGRT 918

Amherst, MA 01003

413-545-0631

danchase@biochem.umass.edu

Iain Cheeseman, Ph.D.

Awardee, 2007

“Proteomic and Functional Dissection of the Human Kinetochore”

Key Words: Kinetochore, Mitosis, Proteomics, Cancer

Assistant Professor of Biology

Whitehead Institute for Biomedical Research

Department of Biology

Massachusetts Institute of Technology

Nine Cambridge Center, Suite 401

Cambridge, MA 02142

617-324-2503

icheese@wi.mit.edu

Jianzhu Chen, Ph.D.

Awardee, 1995

“Molecular Analysis of Memory B Cell Differentiation”

Key Words: Immunological Memory, T Cells, Respiratory Infection, Antivirals

Professor of Biology

Department of Biology

Massachusetts Institute of Technology

77 Massachusetts Avenue

Cambridge, MA 02139

617-258-6173

jchen@mit.edu

James J. Chou, Ph.D.

Awardee, 2003

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

Key Words: Membrane Proteins, Ion Channels, Apoptosis, Structure and Dynamics, NMR

Assistant Professor

Department of Biological Chemistry and Molecular Pharmacology

Harvard Medical School

250 Longwood Avenue, SGM 109

Boston, MA 02115

617-432-2920

james_chou@hms.harvard.edu

Steven Chuck, M.D.

Awardee, 1997

“Regulation of Apolipoprotein B Secretion”

Key Words: Protein Secretion, Proteomics, Cardiovascular Disease, Metabolism

Assistant Professor

Gilead Sciences

300 Lakeside Drive

Foster City, CA 94010

650-522-5242

steven.chuck@gilead.com

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

Awardee, 1998

“Endothelial Protease-Activated Receptors”

Key Words: Signal Transduction, Endothelial Cells, Atherosclerosis

Assistant Professor of Pathology

Department of Pathology

Stanford University School of Medicine

R248b, Edwards Building

300 Pasteur Drive

Stanford, CA 94305

650-736-1550

aconnoll@stanford.edu

Paul B. Cook, Ph.D., PMP

Awardee, 2000

“Modulation of Glycinergic Inhibition in the Vertebrate”

Key Words: Neuroscience, Sensory Physiology, Vision, Retina, Modulation of Synaptic Function, Structure, Function and Modulation of Neural Networks

Project Manager

Integrated Project Management Company, Inc.

1 Broadway, 14th Floor

Cambridge, MA 02142

617-401-2325

pcook@ipmcinc.com, pbcook60@gmail.com**Daniel H. Cox, Ph.D.**

Awardee, 2000

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

Key Words: Calcium, Ion Channel, Potassium Channel, Calcium-Activated Potassium Channel (BKCa), Calcium Binding

Associate Professor

Department of Neuroscience

Tufts University School of Medicine

136 Harrison Ave

Boston, MA 02111

617-636-0956

dan.cox@tufts.edu**Alexei Degterev, Ph.D.**

Awardee, 2007

“Molecular Mechanism and Oncogenic Regulation of Cellular Necrosis”

Key Words: Necrosis, Necroptosis, Cell Death, Apoptosis, Transformation

Assistant Professor of Biochemistry

Department of Biochemistry

Tufts University

136 Harrison Avenue

Boston, MA 02445

617-636-0491

alexei.degterev@tufts.edu**Walter E. Demkowicz, Ph.D.**

Awardee, 1995

“Immunotherapy for AIDS: Transduction of HIV-1-Specific T-Cell Receptor Genes”

Key Words: Tumor Vaccines, Dendritic Cell-Tumor Cell, Fusion Vaccine, MHC-Peptide Tetramers, Protein Microarrays, Non-Hodgkins Lymphoma

2 Avon Drive

Shrewsbury, MA 01545

508-615-1886

wdemkowicz@yahoo.com**Li Deng, Ph.D.**

Awardee, 1999

“A Chemical Approach toward Understanding DNA Modification”

Key Words: Organocatalysis, Asymmetric Catalysis, Cinchona Alkaloids, Synthesis

Orrie Friedman Distinguished Professor of Chemistry

Department of Chemistry

Brandeis University

415 South Street

Waltham, MA 02454-9110

781-736-2529

deng@brandeis.edu**Elaine A. Elion, Ph.D.**

Awardee, 1992

“Mechanisms of Negative Growth Control in *Saccharomyces Cerevisiae*”

Key Words: Signal Transduction, Scaffold Proteins, Mitogen Activated Protein Kinase (MAPK), Cascades, Proliferation, Cell Survival, Nutrition

Professor

Department of Biological Chemistry and

Molecular Pharmacology

Harvard Medical School

240 Longwood Avenue

Boston, MA 02115-5730

617-432-3815

elaine_elion@hms.harvard.edu

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

Awardee, 2003

“The Genetics of Atrial Fibrillation: Exploration of Endophenotypes”

Key Words: Atrial Fibrillation, Arrhythmia, Genetics

Assistant Professor
Cardiac Arrhythmia Service
Cardiovascular Research Center
Massachusetts General Hospital
55 Fruit Street, GRB 109
Boston, MA 02114
617-724-8729
pellinor@partners.org

Sean J. Elliott, Ph.D.

Awardee, 2004

“Thioredoxin, Thioredoxin Reductase, and the Mechanisms of Oxidative Stress”

Key Words: Redox Biochemistry, Biological Electron Transfer, Protein Electrochemistry, Oxidative Stress

Associate Professor of Chemistry
Department of Chemistry
Boston University
590 Commonwealth Avenue
Boston, MA 02215
617-358-2816
elliott@bu.edu

Patrick Emery, Ph.D.

Awardee, 2002

“Circadian Photoreception in *Drosophila Melanogaster*”

Key Words: Circadian Rhythms, *Drosophila*, Photic and Thermal Input Pathways

Associate Professor of Neurobiology
Department of Neurobiology
University of Massachusetts Medical School
364 Plantation Street
Worcester, MA 01605
508-856-6599
patrick.emery@umassmed.edu

Tamar Enoch, Ph.D.

Awardee, 1993

“Using Yeast to Identify New Tumor Suppressor Genes”

Key Words: Eukaryotic Gene Expression, Cell Cycle Regulation

Abbot
Cambridge Zen Center
199 Auburn Street
Cambridge, MA 02139
617-576-3229
abbot@cambridgezen.com

Jerry Faust, Ph.D.

Awardee, 1992

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

Key Words: Isopentenyladenosine RNAs, Neuronal Ceroid Lipofuscinoses

Associate Professor
Department of Physiology
Tufts University School of Medicine
136 Harrison Avenue
Boston, MA 02111
617-636-2405
jerry.faust@tufts.edu

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

Awardee, 1998

“Molecular Mechanisms of Huntington’s Disease”

Key Words: Neuroscience, Plasticity, Neurodegeneration, Signal Transduction, Huntington’s Disease, Parkinson’s Disease, Gene Transcription, Protein Folding, Imaging, Polyglutamine Repeat Disorders, N-methyl-D-aspartate Receptors, Alzheimer’s Disease, Neurotrophins, Activity-regulated Cytoskeletal Protein, Protein Kinase D, Leucine Repeat-related Kinase 2

Associate Professor
University of California, San Francisco
Associate Director and Associate Investigator
Departments of Neurology and Physiology
Gladstone Institute of Neurological Disease
1650 Owens Street
San Francisco, CA 94158
415-734-2000
sfinkbeiner@gladstone.ucsf.edu

Matthew L. Freedman, M.D.

Awardee, 2007

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

Key Words: Genomics, Human Genetics, Prostate Cancer, Breast Cancer, African American

Assistant Professor of Medicine

Harvard Medical School

Dana-Farber Cancer Institute

44 Binney Street, Dana 710C

Boston, MA 02115

617-582-8598

freedman@broad.mit.edu

Marc R. Freeman, Ph.D.

Awardee, 2004

“Characterizing Core Components of the Glial Cell Machinery”

Key Words: Glia, Reactive Gliosis, Neuron-Glia Communication, Brain Injury, Drosophila

Assistant Professor

Department of Neurobiology

University of Massachusetts Medical School

719 Lazare Research Building

364 Plantation Street

Worcester, MA 01605

508-856-6136

marc.freeman@umassmed.edu

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

Awardee, 1999

“Mechanisms Regulating CTCL Migration to Skin”

Key Words: Skin, Immunology, T Cells, Melanoma, Leukocyte Homing, Glycobiology, Selectin

Associate Professor of Pediatrics and Dermatology

Department of Dermatology

Brigham and Women’s Hospital

221 Longwood Avenue, EBRC 501

Boston, MA 02115

617-525-8501

rfuhlbrigge@partners.org

Jianmin Gao, Ph.D.

Awardee, 2007

“Understanding Beta Sheet Structure within the Membrane Bilayer”

Key Words: Protein Folding, Membrane Protein, Beta-Barrel, OmpX, VDAC, Thermodynamics, Unnatural Amino Acids

Assistant Professor

Department of Chemistry

Boston College

140 Commonwealth Avenue

Chestnut Hill, MA 02467

617-552-0326

gaojc@bc.edu

Frank B. Gertler, Ph.D.

Awardee, 1998

“Mena Function in Tumor Cell Biology and Metastasis”

Key Words: Cytoskeleton, Cell Motility, Neurobiology, Axon Guidance, Cancer, Metastasis

Professor of Biology

Massachusetts Institute of Technology

Center for Cancer Research

77 Massachusetts Avenue, E17-110, 68-270A

Cambridge, MA 02139

617-253-5511

fgertler@mit.edu

Grace Gill, Ph.D.

Awardee, 1996

“Regulation of Cell Growth Control by Cellular E1A-Like Proteins”

Key Words: Transcription, Gene Expression, SUMO, Post-Translational Modification, Neural Development, Dendritic Patterning

Associate Professor

Department of Anatomy and Cellular Biology

Tufts University School of Medicine

136 Harrison Avenue

Boston MA 02111

617-636-3757

grace.gill@tufts.edu

Lisa Goodrich, Ph.D.

Awardee, 2003

“Analysis of Genes Important for Hearing and Balance”

Key Words: Inner Ear, Auditory System, Circuit Assembly, Morphogenesis, Gene Trap

Assistant Professor

Department of Neurobiology

Harvard Medical School

220 Longwood Avenue

Boston, MA 02115

617-432-2951

Lisa_Goodrich@hms.harvard.edu

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

Awardee, 2003

“Thymocyte Transformation in the DN to DP Transition”

Key Words: T-Cell Development, T-Cell Transformation, Pre-TCR Signaling, TCR Signaling, WNT/ β -Catenin Signaling

Assistant Professor of Medicine

Department of Medicine/Rheumatology

The University of Chicago

5841 South Maryland Avenue, MC0930

Chicago, IL 60637

773-702-3912

fgounari@uchicago.edu

Timothy E. Graham, M.D.

Awardee, 2007

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

Key Words: Diabetes

Assistant Professor of Medicine, HMS

Beth Israel Deaconess Medical Center

99 Brookline Avenue, RN380A

Boston, MA 02215

617-667-1786

tgraham@bidmc.harvard.edu

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

Awardee, 2000

“Structural Analysis of the Shaker Potassium Channel”

Key Words: Macromolecular Machines, Amyloid, Electron Microscopy, Structural Biology

Professor of Biochemistry

Investigator, Howard Hughes Medical Institute

Brandeis University

415 South Street, MS 029

Waltham MA, 02454

781-736 2444

niko@brandeis.edu

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

Awardee, 2000

“Purification and Analysis of a p53-Targeted Ubiquitin Ligase”

Key Words: p53, MDM2, Ubiquitin, p300, CBP, Coactivator, E3, E4, Polyubiquitin, DNA Damage, Proteasome, Rad23, p19ARF, Colon Cancer, CtBP

Assistant Professor

Departments of Cancer Biology and Medicine

University of Massachusetts Medical School

364 Plantation Street, LRB 419

Worcester, MA 01605

508-856-6423

steven.grossman@umassmed.edu

Marc-Jan Gubbels, Ph.D.

Awardee, 2006

“Dissection of Toxoplasma Gondii Cell Division, an Opportunistic Pathogen Causing Myocarditis and Encephalitis”

Key Words: Toxoplasma Gondii, Intermediate Filaments, Cell Cycle, Cytokinesis, Host Cell Invasion, Ca²⁺ Signaling

Assistant Professor of Biology

Department of Biology

Boston College

140 Commonwealth Avenue

Chestnut Hill, MA 02467

617-552-8722

gubbelsj@bc.edu

Jeanne Hardy, Ph.D.

Awardee, 2005

“Designing Allosteric Sites in Caspases”

Key Words: Caspase, Protein Design, X-ray Crystallography, Apoptosis, Cell Death, Chemical Genetics, Target Identification

Assistant Professor of Chemistry
Department of Chemistry
University of Massachusetts Amherst
710 North Pleasant Street
Amherst, MA 01003
413-545-3486
hardy@chem.umass.edu

Akiko Hata, Ph.D.

Awardee, 2001

“Mechanisms of TGF-beta Signal Transduction”

Key Words: TGF-beta, BMP, Hypertension, Signal Transduction, microRNA, Transcription, Smads, Vascular Smooth Muscle

Associate Professor of Biochemistry
Department of Biochemistry
Tufts University School of Medicine
800 Washington Street, Box 8486
Boston, MA 02111
617-636-0614
akiko.hata@tufts.edu

Daniel N. Hebert, Ph.D.

Awardee, 1998

“Tyrosinase Maturation and Degradation in Normal Melanocytes and Melanoma Cells”

Key Words: Protein Folding, Protein Quality Control, Endoplasmic Reticulum, Secretory Pathway, Molecular Chaperones, Carbohydrates

Professor
Department of Biochemistry and Molecular Biology
University of Massachusetts
Lederle Graduate Research Tower
710 North Pleasant Street
Amherst, MA 01003
413-545-0079
dhebert@biochem.umass.edu

Philip W. Hinds, Ph.D.

Awardee, 1993

“The Retinoblastoma Protein Pathway in Differentiation, Senescence and Cancer”

Key Words: Tumor Suppressor, Differentiation, Senescence, Cell Cycle, Cyclin, CDK, Retinoblastoma, Breast Cancer, Osteosarcoma, Oral Cancer, Mouse Models

Professor of Radiation Oncology
Molecular Oncology Research Institute
Tufts Medical Center
750 Washington Street, #5609
Boston, MA 02111
617-636-7947
phinds@tufts-nemc.org

Joel N. Hirschhorn, M.D., Ph.D.

Awardee, 2002

“Comprehensive Evaluation of Reported Associations between Common Gene Variants and Obesity”

Key Words: Genetics, Obesity, Genomics, Association Studies, Complex Traits, Anthropometrics, Endocrinology, Diabetes

Associate Professor of Genetics
Children’s Hospital Boston
Senior Associate Member and Co-Director
Metabolism Initiative
Broad Institute of Harvard and MIT
Children’s Hospital, Enders 561
300 Longwood Avenue
Boston, MA 02115
617-919-2129
joelh@broad.mit.edu

Andreas Hochwagen, Ph.D.

Awardee, 2007

“Investigating the Role of Checkpoint Adaptation in Anti-Cancer Drug Resistance”

Key Words: Double Strand Breaks, Checkpoints, Meiosis, Recombination, *Saccharomyces Cerevisiae*

Whitehead Fellow
Whitehead Institute for Biomedical Research
9 Cambridge Center
Cambridge, MA 02142
617-324-1716
andi@wi.mit.edu

Jianming Hu, M.D., Ph.D.

Awardee, 1999

“Host Factors Required for Hepatitis B Virus Assembly and Replication”

Key Words: Viral Replication and Pathogenesis, Virus-Host Interactions, Hepatitis B Virus, Hepatitis C Virus

Associate Professor

Department of Microbiology and Immunology
Pennsylvania State University College of Medicine
500 University Drive
Hershey, PA 17033
717-531-6523
juh13@psu.edu

Paul Huang, M.D., Ph.D.

Awardee, 1994

“Vascular Function in Nitric Oxide Synthase Mutant Mice”

Key Words: Endothelium, Nitric Oxide, Stroke, Atherosclerosis, Gene Knockouts, Animal Models for Human Disease, Ischemic Preconditioning, Vascular Injury, Molecular Imaging

Director, Cardiac Metabolic Syndrome Program
Cardiovascular Research Center, Room 4101
Massachusetts General Hospital East
149 Thirteenth Street
Charlestown, MA 02129
617-724-9849
huangp@helix.mgh.harvard.edu

Craig P. Hunter, Ph.D.

Awardee, 1997

“Identifying the Regulatory Targets of PAL-1”

Key Words: *C. elegans*, RNAi, Pattern Formation, Translation, Genomics, Gene Networks

Professor of Molecular and Cellular Biology
Department of Molecular and Cellular Biology
Harvard University
16 Divinity Avenue
Cambridge, MA 02138
617-495-8309
hunter@mcb.harvard.edu

Tyler Jacks, Ph.D.

Awardee, 1992

“Functional Analysis of the p53 Gene”

Key Words: Cancer Genetics, Tumor Suppressor Genes, Oncogenes, Mouse Models, Chemoresistance

Director, David H. Koch Institute for Integrative Cancer Research at MIT
Massachusetts Institute of Technology
77 Massachusetts Avenue, Building E17-517
Cambridge, MA 02139
617-253-0262
tjacks@mit.edu

David Jeruzalmi, Ph.D.

Awardee, 2002

“Structure and Function of Proteins Associated with DNA Replication”

Key Words: DNA Replication, Biochemistry, Structural Biology, Cancer

Associate Professor
Department of Molecular and Cellular Biology
Harvard University
7 Divinity Avenue
Cambridge, MA 02138
617-496-9734
dj@mcb.harvard.edu

Jordan A. Kriedberg, M.D., Ph.D.

Awardee, 1995

“A Transgenic Mouse Model of Wilms' Tumor”

Key Words: Kidney, Renal Failure, Wtl, Germ Cell, Integrin, Extracellular Matrix, Cell Adhesion

Director of Development and Stem Cell Research
Division of Nephrology and Newborn Medicine
Department of Medicine
Children's Hospital Boston
300 Longwood Avenue, Enders 878.1
Boston, MA 02115
617-919-2959
jordan.kreidberg@childrens.harvard.edu

Galit Lahav, Ph.D.

Awardee, 2005

“P53 Dynamics and the Control of Cell Fate”

Key Words: DNA Damage, Cancer, p53, Single Cell Measurements, Imaging, Dynamics, Mathematical Modeling

Assistant Professor of Systems Biology

Department of Systems Biology

Harvard Medical School

200 Longwood Avenue

Boston, MA 02115

617-432-5621

galit@hms.harvard.edu

Matthew J. LaVoie, Ph.D.

Awardee, 2005

“The Role of Protein Modification and Dysfunction in Parkinson’s Disease”

Key Words: Parkinson’s Disease, Neurodegeneration, Oxidative Stress, Dopamine

Assistant Professor of Neurology

Department of Neurology

Brigham and Women’s Hospital

Harvard Medical School

77 Avenue Louis Pasteur, HIM Room 764

Boston, MA 02115

617-525-5185

mlavoie@rics.bwh.harvard.edu

David Lambright, Ph.D.

Awardee, 1996

“Structural Determinants of G Protein Coupled Signal Transduction”

Key Words: Membrane Trafficking, Cell Signaling, Structural Biology

Professor of the Program in Molecular Medicine

University of Massachusetts Medical School

Two Biotech

373 Plantation Street

Worcester, MA 01605

508-856-6876

David.Lambright@umassmed.edu

Nathan D. Lawson, Ph.D.

Awardee, 2003

“Genetic Dissection of the Vascular Endothelial Growth Factor Signaling Pathway”

Key Words: Angiogenesis, Endothelial, Vegf, Zebrafish

Associate Professor

Program in Gene Function and Expression

University of Massachusetts Medical School

Lazare Research Building, Room 617

364 Plantation Street

Worcester, MA 01605

508-856-1177

nathan.lawson@umassmed.edu

Jacqueline A. Lees, Ph.D.

Awardee, 1995

“The Role of pRB and E2F in Tumorigenesis”

Key Words: Cell Cycle Control, Tumorigenesis, Retinoblastoma Protein and E2F

Associate Director

David H. Koch Institute for Integrative Cancer Research at MIT

Massachusetts Institute of Technology

77 Massachusetts Avenue, E17-517B

Cambridge, MA 02139

617-252-1972

jalees@mit.edu

Anthony Letai, M.D., Ph.D.

Awardee, 2004

“Decoding BCL-2 Family Interactions to Promote Cancer Cell Death”

Key Words: Cancer, Apoptosis, Mitochondria, BCL-2, BH3

Assistant Professor in Medicine

Department of Medical Oncology

Dana-Farber Cancer Institute

44 Binney Street, Dana 530B

Boston, MA 02115

617-632-2348

anthony_letai@dfci.harvard.edu

Michael Levin, Ph.D.

Awardee, 2001

“The Role of Katp Ion Channels in Embryonic Development”

Key Words: Developmental Biology, Left-Right Asymmetry, Ion Flux, Biophysics

Professor of Biology

Department of Biology

Center for Regenerative and Developmental Biology

Tufts University

200 Boston Avenue, Suite 4600

Medford, MA 02155-4243

617-627-6161

michael.levin@tufts.edu

Rong Li, Ph.D.

Awardee, 1995

“The Role of Cdc42 in Actin Cytoskeleton Assembly”

Key Words: Cell Polarity, Cell Division, Cellular Evolution, Tissue Morphogenesis

Investigator and Professor of Physiology

Stowers Institute for Medical Research

1000 East 50th Street

Kansas City, MO 64110

816-926-4340

rli@stowers-institute.org

Stuart Licht, Ph.D.

Awardee, 2002

“Interactions of Sulfonyluria Anti-Diabetic Agents with the ATP-Sensitive Potassium Channel”

Key Words: Ion Channels, Enzymes, ATP-Sensitive Potassium Channel, Sulfonylureas, Single-Molecule Techniques, Molecular Machines

Assistant Professor of Chemistry

Massachusetts Institute of Technology

77 Massachusetts Avenue

Cambridge, MA 02139

617-452-3525

lichts@mit.edu

Klaus Lindpaintner, M.D., M.P.H.

Awardee, 1993

“Molecular Genetics of Hypertension and Stroke”

Key Words: Molecular Genetics of Complex Traits, Genetic Epidemiology, Pharmacogenetics

Roche Distinguished Scientist

Senior Vice President of Research

Head, Roche Genetics and Roche Molecular Medicine Laboratories

Global Head, Molecular Medicine Policy and External Affairs

F. Hoffmann-La Roche AG

Building 93/8.03

CH-4070 Basel, Switzerland

011-41-61-688 0254

klaus.lindpaintner@roche.com

Myra Lipes, M.D.

Awardee, 1994

“A Transgenic Approach to the Study of Tolerance Induction in Type I Diabetes”

Key Words: Immunology of Type 1 Diabetes, Mouse Models, Metabolic Engineering, Cardiovascular Disease

Investigator, Research Division

Joslin Diabetes Center

One Joslin Place, Room 373

Boston, MA 02115

617-732-2624

myra.lipes@joslin.harvard.edu

Bradford B. Lowell, M.D., Ph.D.

Awardee, 1994

“The B3-Adrenergic Receptor: A Gene Knockout Analysis of Function”

Key Words: Obesity, Diabetes, Transgenics, Gene Targeting, Beta-Adrenergic Receptors, Mitochondria, Uncoupling Proteins, Neurocircuits

Professor of Medicine

Division of Endocrinology, RN-325

Faculty Affiliate, Program in Neuroscience

Berth Israel Deaconess Medical Center

99 Brookline Avenue

Boston, MA 02115

617-667-5954

blowell@bidmc.harvard.edu

Gavin MacBeath, Ph.D.

Awardee, 2002

“Towards the System-Wide Study of Neuronally-Expressed PDZ Domains”

Key Words: Protein Microarray, PDZ Domain, Genome-Wide, Binding Selectivity, Interaction Map, Multiprotein Complex, Synaptic Signaling, Neurological Disorders

Associate Professor

Department of Chemistry and Chemical Biology

Harvard University

12 Oxford Street

Cambridge, MA 02138

617-495-9488

gmacbeath@cgr.harvard.edu

Katherine M. Martien, M.D.

Awardee, 2000

“The Efficacy of Valproic Acid in the Treatment of Autism Associated with Regression and/or Severe Sleep Disturbance”

Key Words: Autism, Pervasive Developmental Disorder, EEG, Coherence, Evoked Potentials, Event Related Potentials, Sodium Valproate

Assistant in Pediatrics

LADDERS Clinic

65 Walnut Street

Wellesley, MA 02481

781-449-6074

kmartien@partners.org

Andrea I. McClatchey, Ph.D.

Awardee, 1999

“Identification of the Molecular Function of the NF2 Tumor Suppressor, Merlin”

Key Words: Tumor Suppressor, Mouse Model, Metastasis, Cytoskeleton, Stem Cell

Associate Professor

MGH Cancer Center

Harvard Medical School Department of Pathology

149 13th Street

Charlestown, MA 02129

617-726-5648

mcclatch@helix.mgh.harvard.edu

David E. Moller, M.D.

Awardee, 1992

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

Key Words: Insulin Resistance, Insulin Receptor Activator

Former Executive Director

Metabolic Disorders Division

Merck Research Laboratories

126 East Lincoln Avenue, Box 2000, R80T-100

Rahway, NJ 07065

Melissa J. Moore, Ph.D.

Awardee, 1994

“Dynamics of Protein-RNA Interaction in the Mammalian Spliceosome”

Key Words: RNA Slicing, RNA Quality and Control, RNA Degradation

Investigator, Howard Hughes Medical Institute

Professor, Biochemistry and Molecular Pharmacology

University of Massachusetts Medical School

364 Plantation Street, Lazare Research Building 825

Worcester, MA 01605

508-856-8014

melissa.moore@umassmed.edu

Martin G. Myers, Jr., M.D., Ph.D.

Awardee, 1998

“Molecular Determinants of Leptin Receptor/Jak2 Signaling”

Key Words: Leptin, Hypothalamus, Obesity, Receptor Signaling

Marilyn H. Vincent Professor of Diabetes Research

Associate Professor of Medicine

University of Michigan Medical School

1150 West Medical Center Drive, 5560 MSRB II/5678

Ann Arbor, MI 48109

734-647-9515

mgmyers@umich.edu

Sarah E. O'Connor, Ph.D.

Awardee, 2003

“Human Biosynthesis of Alkaloids: Chemical Inducers of Parkinson's Disease”

Key Words: Alkaloid, Chemotherapy, Cancer, Biosynthesis, Medicinal Plants

Associate Professor of Chemistry
Department of Chemistry
Massachusetts Institute of Technology
77 Massachusetts Avenue, 18-592
Cambridge, MA 02139
617-324-0180
soc@mit.edu

Suzanne Paradis, Ph.D.

Awardee, 2008

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

Key Words: Semaphorin, Synapse, Formation, RNAi, Hippocampus

Assistant Professor of Biology
Department of Biology
Brandeis University
415 South Street
Waltham, MA 02454
781-736-5305
paradis@brandeis.edu

Sareh Parangi, M.D.

Awardee, 1999

“Antiangiogenic Therapy: A Novel Therapy for Pancreatic Cancer”

Key Words: Animal Models, Angiogenesis, Gene Therapy, Thrombospondin, Pancreatic Cancer

Assistant Professor of Surgery
Department of General and Endocrine Surgery
Massachusetts General Hospital
15 Parkman Street, Wang ACC 460 MGH
Boston, MA 02115
617-643-4806
sparangi@partners.org

Christopher L. Passaglia, Ph.D.

Awardee, 2005

“Retinal Coding of Visual Information in Glaucomatous Eyes”

Key Words: Vision, Retina, Neurophysiology, Glaucoma

Assistant Professor of Biomedical Engineering
Department of Biomedical Engineering
Boston University
44 Cummington Street
Boston, MA 02215
617-358-0254
psagls@bu.edu

R. Christopher Pierce, Ph.D.

Awardee, 1999

“Neurotrophins and Cocaine Addiction”

Key Words: Addiction, Cocaine, Amphetamine, Relapse, Animal Models, Nucleus Accumbens, Dopamine, Glutamate

Associate Professor of Neuroscience
Department of Psychiatry
University of Pennsylvania School of Medicine
Center for Neurobiology and Behavior
125 South 31st Street
Philadelphia, PA 19104
215-746-8915
rcpierce@mail.med.upenn.edu

Emmanuel N. Pothos, Ph.D.

Awardee, 2002

“The Effects of Dietary Obesity on CNS Reward Systems”

Key Words: Dopamine, Monoamines, VMAT2 Transporter, Quantal Neurotransmission, Obesity, Parkinson's Disease

Assistant Professor
Department of Pharmacology and Experimental Therapeutics
Tufts University School of Medicine
136 Harrison Avenue, M&V Room 201
Boston, MA 02111
617-636-6778
emmanuel.pothos@tufts.edu

Sridhar Ramiswamy, M.D.

Awardee, 2002

“Molecular Diagnostics for Cancer Metastasis”

Key Words: Cancer Metastasis, Genetics, Functional Genomics, Clinical Investigation

Assistant Professor of Medicine

Harvard Medical School

Tucker Gosnell Investigator

Massachusetts General Hospital Cancer Center

Simches Research Center

185 Cambridge Street

Boston, MA 02114

617-643-3140

sridhar@mgh.harvard.edu

Peter Reddien, Ph.D.

Awardee, 2006

“Regulation of Stem Cells for Regeneration in Planarians”

Key Words: Regeneration, Stem Cells, RNAi, Planarians

Assistant Professor of Biology

Member, Whitehead Institute

Department of Biology

Massachusetts Institute of Technology

9 Cambridge Center

Cambridge, MA 02138

617-324-4083

reddien@wi.mit.edu

Nicholas Rhind, Ph.D.

Awardee, 2001

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

Key Words: Fission Yeast, Schizosaccharomyces Pombe, Cell Cycle, Checkpoints, DNA Damage, DNA Replication, DNA Replication Origins, DNA Replication Kinetics, DNA Recombination

Assistant Professor

Department of Biochemistry and Molecular Pharmacology

University of Massachusetts Medical School

364 Plantation Street, LRB904

Worcester, MA 01605

508-856-8316

nick.rhind@umassmed.edu

John L. Rinn, Ph.D.

Awardee, 2008

“Large Intergenic Non-Coding RNAs in Cancer”

Key Words: Non-Coding RNA, Epigenetics, Cancer, Functional Genomics, RNAi

Assistant Professor

Department of Pathology

Center for Life Sciences

Beth Israel Deaconess Medical Center

3 Blackfan Circle, Room 535

Boston, MA 02215

650-575-2491

jrinn@broad.mit.edu

Tobias Ritter, Ph.D.

Awardee, 2008

“Approach to Access Positron-Emission-Tomography Tracers for Molecular Imaging”

Key Words: Positron-Emission-Tomography (PET), Molecular Imaging, Alzheimer's, Parkinson's, Cancer, Chemical Synthesis

Assistant Professor of Chemistry

Department of Chemistry and Chemical Biology

Harvard University

12 Oxford Street

Cambridge, MA 02138

617-496-0750

ritter@chemistry.harvard.edu

Sandra Ryeom, Ph.D.

Awardee, 2005

“Cancer Protection by the Down Syndrome Candidate Region-1 Gene”

Key Words: Cancer, Angiogenesis, Down Syndrome, Calcineurin Signaling

Assistant Professor

Harvard Medical School

Vascular Biology, Karp 12.129

Children's Hospital Boston

300 Longwood Avenue

Boston, MA 02115

617-919-2345

sandra.ryeom@childrens.harvard.edu

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

Awardee, 2001

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

Key Words: Synapse, Memory, Protein Translation, Spines, Plasticity

Investigator, Howard Hughes Medical Institute
Associate Professor, Department of Neurobiology
Harvard Medical School
220 Longwood Avenue
Boston MA, 02115
617-432-5670

bsabatini@hms.harvard.edu

Adrian Salic, Ph.D.

Awardee, 2005

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

Key Words: Cell Division, Chromosomes, Signaling, Hedgehog, Chemical Biology

Assistant Professor of Cell Biology
Department of Cell Biology
Harvard Medical School
240 Longwood Avenue
Boston, MA 02115
617-432-6341

adrian_salic@hms.harvard.edu

Susan L. Santangelo, Sc.D.

Awardee, 1997

“Using Extremely Discordant Sib-Pairs to Search for Autism Genes”

Key Words: Genetic Epidemiology, Statistical Genetics, Complex Diseases, Autism, Schizophrenia, Psychiatric Disorders

Associate Professor in Epidemiology
Department of Psychiatry and Epidemiology
Harvard School of Public Health
Associate Professor of Psychiatry
Psychiatric and Neurodevelopmental Genetics Unit
Center for Human Genetic Research
Massachusetts General Hospital
185 Cambridge Street, CPZN 6-256
Boston, MA 02114

617-726-7876, ssantangelo@pngu.mgh.harvard.edu

Dietmar Schmucker, Ph.D.

Awardee, 2002

“Molecular Diversity and Signal Transduction of the Hypervariable Receptor Dscam”

Key Words: Immunoglobulin Receptor, Neural Development, Synaptic Specificity, Alternative Splicing, Homophilic Binding, Molecular Self-Recognition

Associate Professor
Department of Neurobiology
Harvard Medical School
Department of Cancer Biology
Dana-Farber Cancer Institute
1 Jimmy Fund Way, Smith Building 1022c
Boston, MA 02115
617-632-2453

Dietmar_schmucker@dfci.harvard.edu

Gavin R. Schnitzler, Ph.D.

Awardee, 2000

“Human Chromatin Remodeling Complexes and Transcriptional Control”

Key Words: Chromatin, Nucleosome, SWI/SNF, Transcriptional Regulation, Genomics, Atomic Force Microscopy

Assistant Professor of Biochemistry
Tufts University School of Medicine
136 Harrison Avenue, M&V 602C
Boston, MA 02111
617-636-2441

gavin.schnitzler@tufts.edu

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

Awardee, 1996

“Casein Kinase II and Lymphomagenesis in Transgenic Mice”

Key Words: Casein Kinase, WNT, Amyloidosis

Chief of Hematology-Oncology
Department of Medicine
Boston Medical Center
650 Albany Street, EBRC 420
Boston, MA 02118
617-638-7027

dseldin@bu.edu

Piali Sengupta, Ph.D.

Awardee, 1997

“Role of Nuclear Receptors in the Chemosensory System of *C. elegans*”

Key Words: *C. elegans*, Behavior, Neural Development, Plasticity

Professor of Biology
Brandeis University
415 South Street, MS 008
Waltham, MA 02454
781-736-2686
sengupta@brandeis.edu

Matthew D. Shair, Ph.D.

Awardee, 1997

“Discovery of Small Molecules which Disrupt Protein-Protein Interactions”

Key Words: Chemical Genetics, Chemical Biology, Diversity-Oriented Organic Synthesis

Professor
Department of Chemistry and Chemical Biology
Harvard University
12 Oxford Street
Cambridge, MA 02138
617-495-5008
shair@chemistry.harvard.edu

Ann M. Sheehy, Ph.D.

Awardee, 2007

“Harnessing the Power of the Anti-HIV Protein APOBEC3G”

Key Words: APOBEC3G, HIV Restriction Factors, Innate Immunity, Gene Regulation

Assistant Professor
Department of Biology
College of the Holy Cross
1 College Street
Worcester, MA 01610
508-793-2255
asheehy@holycross.edu

Michael Y. Sherman, Ph.D.

Awardee, 1996

“Molecular Chaperones and Degradation of Oxidatively Damaged Proteins”

Key Words: Heat Shock Protein Hsp70, Apoptosis, Signal Transduction, JNK Dephosphorylation

Associate Professor
Department of Biochemistry
Boston University School of Medicine
15 Staughton Street, Building K 323
Boston, MA 02118
617-638-5971
sherman@biochem.bumc.bu.edu

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

Awardee, 1997

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

Key Words: Gastrointestinal Development, Epithelial Differentiation, Platelet Biogenesis, Wnt Signaling Pathway

Associate Professor of Medicine
Departments of Medical Oncology and Medicine
Dana-Farber Cancer Institute
44 Binney Street, Dana 720
Boston, MA 02115
617-632-5746
ramesh_shivdasani@dfci.harvard.edu

Sergei Y. Sokol, Ph.D.

Awardee, 1994

“The Disheveled Gene Product and the Establishment of Dorso-Ventral Polarity in *Xenopus* Embryos”

Key Words: Inductive Interactions, *Xenopus* Embryo, Wnt, Neural Induction, Apoptosis, Cytoskeletal Polarity, Beta-Catenin, Organizer, Antero-Posterior Patterning

Moses L. and Sadie C. Annenberg Professor
Department of Developmental and Regenerative Biology
Member, Black Family Stem Cell Institute
Mount Sinai School of Medicine
One Gustave L. Levy Place
Annenberg 25-86, Box 1020
New York, NY 10029
212-241-1757
sergei.sokol@mssm.edu

Kimberly Stegmaier, M.D.

Awardee, 2007

“Chemical Genomic Approach to Modulating Oncogenic Transcription Factors”

Key Words: Cancer, Oncogenic Transcription Factors

Assistant Professor of Pediatrics
Department of Pediatric Oncology
Dana-Farber Cancer Institute
44 Binney Street, DA640
Boston, MA 02115
617-632-4438

Kimberly_Stegmaier@dfci.harvard.edu

Beth Stevens, Ph.D.

Awardee, 2008

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

Key Words: Synaptic Pruning, Astrocyte, Microglia, C1q, Neuroimmune Interactions, Neural Activity, Neurodegenerative Disease

Assistant Professor of Neurology
Department of Neurology
F.M. Kirby Neurobiology Program
Children’s Hospital Boston
300 Longwood Avenue, CLS 12257
Boston, MA 02115
617-919-2979

beth.stevens@childrens.harvard.edu

Masahiko Sugita, M.D., Ph.D.

Awardee, 2000

“A Novel Pathway for Lipid Antigen Presentation by CD1 Molecules”

Key Words: CD1, Lipid Antigen, Antigen Presentation, Tuberculosis, AIDS, Tumor Immunology

Professor
Laboratory of Cell Regulation
Department of Viral Oncology
Institute for Virus Research
Kyoto University
53 Kawahara-cho, Shogoin, Sakyo-ku
Kyoto 606-8507, Japan
011-81-75-751-4028

msugita@virus.kyoto-u.ac.jp

Sam Thiagalingam, Ph.D.

Awardee, 2000

“hBUB1, an Alternate Target for p53 Inactivation”

Key Words: p53, hBub1, Genomic Instability, Apoptosis, LOH, Smad, TGF-beta, DNA Methylation, Epigenetics, Multi-Modular Molecular Network, Cancer Progression Model, EMT, Metastasis, Breast Cancer, Colon Cancer, Lung Cancer, Reelin, MB-COMT, Serotonin, Schizophrenia, Bipolar Disorder

Associate Professor of Medicine, Genetics, Genomics, Pathology and Laboratory Medicine
Department of Genetics
Boston University School of Medicine
72 East Concord Street, L320
Boston, MA 02118
617-638-6013

samthia@bu.edu

Stefan Thor, Ph.D.

Awardee, 2000

“Identification of Drosophila Neuronal Identity Genes from Cell Type-Specific cDNA Pools”

Key Words: Cell Fate Specification, Nervous System Development, Gene Regulation, Developmental Biology

Professor of Developmental Biology
Department of Clinical and Experimental Medicine
Linköping University
Campus HU, Lab1, Plan13
S-58183 Linköping, Sweden
stefan.thor@liu.se

Alex Toker, PhD

Awardee, 1998

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

Key Words: Cancer, Signal Transduction, Breast Carcinoma, Protein Kinases, Akt, PI 3-K, Cancer Invasion, Metastasis

Associate Professor of Pathology
Department of Pathology
Beth Israel Deaconess Medical Center
330 Brookline Avenue, EC/CLS-538
Boston, MA, 02215
617-735-2482
atoker@bidmc.harvard.edu

Shannon J. Turley, Ph.D.

Awardee, 2005

“Targeting IκB Kinase in Dendritic Cells to Prevent Pancreatic Cancer”

Key Words: Antigen Presentation, Dendritic Cells, Tumor Immunity, T Cell Activation, TOLERANCE

Assistant Professor

Department of Cancer Immunology and AIDS

Dana-Farber Cancer Institute

44 Binney Street

Boston, MA 02115

617-632-4990

Shannon_turley@dfci.harvard.edu

Naoshige Uchida, Ph.D.

Awardee, 2007

“Elucidating Neural Circuits Underlying Decision-Making in Rodents”

Key Words: Rodents, Decision-making, Neural Circuit, Basal Ganglia

Assistant Professor

Department of Molecular and Cellular Biology

Center for Brain Science

Harvard University

16 Divinity Avenue, Biolabs 4007

Cambridge, MA 02138

617-495-2335

uchida@mcb.harvard.edu

David Van Vactor, Ph.D.

Awardee, 1997

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

Key Words: Axon Guidance, Synaptogenesis, Receptor Protein Tyrosine Phosphatase, Tyrosine Kinase, Cytoskeleton

Professor of Cell Biology

Director, Graduate Programs in Biological and

Biomedical Sciences

Department of Cell Biology

Harvard Medical School

45 Shattuck Street

Boston, MA 02115

617-432-2195

Davie@hms.harvard.edu

Sander van den Huevel, Ph.D.

Awardee, 1998

“Genetic Analysis of Cell-Cycle Regulation and Checkpoint Control”

Key Words: *C. elegans*, Development, Asymmetric Cell Division, Genetics, Carcinogenesis, Mitosis

Professor of Developmental Biology

Utrecht University

Kruytbuilding N305

Padualaan 8

3584 CH Utrecht, The Netherlands

011-31-30-253 35

s.j.l.vandenHeuvel@bio.uu.nl

Douglas Vetter, Ph.D.

Awardee, 2001

“A Transgenic and Proteomic Analysis of Olivocochlear System Function and Development”

Key Words: Cochlea, Hearing, Noise-Induced Hearing Loss, Auditory Processing

Assistant Professor of Neurology

Department of Neuroscience

Tufts University School of Medicine

136 Harrison Avenue

Boston, MA 02111

617-636-3643

douglas.vetter@tufts.edu

Amy J. Wagers, Ph.D.

Awardee, 2004

“Intrinsic and Extrinsic Regulators of Hematopoietic Stem Cell Function”

Key Words: Stem Cells, Skeletal Muscle, Hematopoiesis, Cell Migration, Regeneration

Assistant Professor, Stem Cell and Regenerative Biology

Section on Developmental and Stem Cell Biology

Joslin Diabetes Center

One Joslin Place

Boston, MA 02215

617-935-2175

amy.wagers@joslin.harvard.edu

Yong-Xu Wang, Ph.D.

Awardee, 2006

“Transcriptional Control of Hepatic Gluconeogenesis by Twist-1”

Key Words: Diabetes, Gluconeogenesis, PGC-1a, Twist-1

Assistant Professor

Program in Gene Function and Expression

Program in Molecular Medicine

University of Massachusetts Medical School

364 Plantation Street

Worcester, MA 01605

508-856-5647

Yongxu.Wang@umassmed.edu

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

Awardee, 1993

“Distinguishing Reversible from Irreversible Ischemic Neuronal Injury”

Key Words: Stroke, Diffusion, Magnetic Resonance Imaging, Cerebrovascular Circulation, Clinical Trials

Senior Investigator and Section Chief

Section on Stroke Diagnostics and Therapeutics

National Institutes of Health

National Institute of Neurological Disorders and Stroke

10 Center Drive, Room B1D-733

MSC 1063

Bethesda, MD 20892-1063

301-435-9321

warachs@ninds.nih.gov

H. Christian Weber, M.D.

Awardee, 1999

“Human Gastrin-Releasing Peptide Receptor Gene Regulation”

Key Words: G Protein-Coupled Receptor, Bombesin, Gastrin-Releasing Peptide, Gene Regulation, Intracellular Signaling, Cancer, Obesity, EGF-Receptor Transactivation

Assistant Professor of Medicine

Assistant Professor of Pathology

Department of Medicine

Boston University School of Medicine

650 Albany Street, EBRC Room 515

Boston, MA 02118

617-414-8330

christian.weber@bmc.org

Kristin White, Ph.D.

Awardee, 1996

“Genetic Control of Apoptosis in Drosophila”

Key Words: Apoptosis, Drosophila, Engulfment

Associate Professor of Dermatology

Cutaneous Biology Research Center

Department of Dermatology

Massachusetts General Hospital

13th Street, Building 149

Charlestown, MA 02129

617-726-4440

kwhite4@partners.org

Rachel I. Wilson, Ph.D.

Awardee, 2004

“Synaptic Mechanisms of Chemical Stimulus Encoding”

Key Words: Olfaction, Sensory Processing, Neural Circuits, Synapses, Electrophysiology, Drosophila

Assistant Professor of Neurobiology

Department of Neurobiology

Harvard Medical School

220 Longwood Avenue

Boston, MA 02115

617-432-5571

rachel_wilson@hms.harvard.edu

Xong Xiong, Ph.D.

Awardee, 2006

“HIV Suppression by Human Antiviral Protein APOBEC3G and HIV’s Countermeasures”

Key Words: HIV, AIDS, Innate Immune Response, Vif, APOBEC3G

Assistant Professor of Molecular Biophysics

Assistant Professor of Biochemistry

Department of Molecular Biophysics and Biochemistry

Yale University

260 Whitney Avenue

New Haven, CT 06511

203-436-2608

yong.xiong@yale.edu

Lee Zou, Ph.D.

Awardee, 2004

“Sensing and Signaling DNA Damage in Human Cells”

Key Words: Checkpoint, DNA Replication, DNA Damage, DNA Repair, Cell Cycle, Cancer

Assistant Professor of Pathology

Massachusetts General Hospital Cancer Center

Department of Pathology

Harvard Medical School

13th Street, Building 149, 7th Floor

Charlestown, MA 02129

617-724-9534

zou.lee@mgh.harvard.edu