

**Worcester Foundation for Biomedical Research**  
**2011 Annual Research Grants**  
*supported by gifts to the Hudson Hoagland Society*

**Eric Baehrecke, PhD**

Cancer Biology

*“Identification of Genes that are Required for  
Cancer Initiation and Metastasis”*

**Hemant Khanna, PhD**

Ophthalmology

*“Pathogenetic Mechanisms of the CEP290-  
Associated Early Childhood Blindness Disorder  
Leber Congenital Amaurosis”*

**Daryl Bosco, PhD**

Neurology

*“Defective Stress Responses and Altered Stress  
Granule Function in Neurodegeneration”*

**2011 Morton H. Sigel Award Recipient**

**Andrei Korostelev, PhD**

Biochemistry & Molecular Pharmacology

*“Structural Basis for Translation Regulation of the  
Proto-oncogene c-Myc”*

**Edwin Boudreaux, PhD**

Emergency Medicine

*“Using Volunteers to Deliver Tobacco Cessation  
Interventions in the Emergency Department”*

**Carlos Lois, PhD, MD**

Neurobiology

*“A Songbird Transgenic Model of Alzheimer’s  
Disease”*

**Raphael Carandang, MD**

Neurology

*“Genetic Determinants of Post-Traumatic Cerebral  
Edema: A Pilot Study”*

**Junhao Mao, PhD**

Cancer Biology

*“Non-canonical Gli Regulation in Pancreatic  
Cancer”*

**Craig Ceol, PhD**

Molecular Medicine

*“Use of Comparative Genomics to Identify  
Oncogenes”*

**Klaus Pechhold, MD**

Medicine, Diabetes Division

*“Gene Expression Profiling of Newly Developing  
Islet  $\beta$ -cells in Adult Mice”*

**Gang Han, PhD**

Biochemistry & Molecular Pharmacology

*“Near Infrared Emitting Upconverting  
Nanoparticles for In Vivo Imaging of siRNA  
Delivery and Silencing in Neurodegenerative  
Disease Treatment”*

**Joel Richter, PhD**

Molecular Medicine

*“Correcting the Fragile X Syndrome”*

**2011 Worcester Foundation Mel Cutler Award**