Honorees: Faculty Recipients

2002 OFD/REC Faculty Career Development Fellowships
Joseph Gonzalez-Heydrich, PhD
Assistant Professor of Psychiatry, HMS
Department of Psychiatry, CHB
Treatment of Attention Deficit Hyperactivity Disorder (ADHD) in Pediatric Patients with Epilepsy
Karen Puopolo, MD, PhD
Instructor in Pediatrics, HMS
Newborn Medicine Division, CHB
Short Sequence Repeat Elements in the Control of Expression of the Alpha C Protein of Group B Streptococcus

2003 OFD/REC Faculty Career Development Fellowships
Catherine Chen, MD
Instructor in Surgery, HMS
Department of Surgery, CHB
Quality of Survival in Patients with Congenital Diaphragmatic Hernia: The Boston Children’s Hospital Experience Since 2000
Claudia Ordonez, MD
Instructor in Pediatrics, HMS
Division of Respiratory Diseases, CHB
P. aeruginosa Virulence in CF Lung Disease Progression

2004 OFD/REC Career Development Fellowships
Faculty:
Adriana Donovan, PhD
Instructor in Pediatrics, HMS
Hematology/Oncology Division, CHB
Study of Ferroportin 1 in Mammalian Iron Homeostasis
Nicole Ullrich, MD
Instructor in Neurology, HMS
Division of Neuroscience, Department of Neurology, CHB
Genomic Analysis of Medulloblastomas

2005 OFD/BSREC/CREC* Career Development Fellowships
Faculty:
Kate Ackerman, MD
Instructor in Pediatrics, HMS
Division of Emergency Medicine, CHB
Role of retinoic acid in Fog2 mediated lung and diaphragm development
Carmen Barnés, PhD
Instructor in Surgery, HMS
Vascular Research Program, CHB
Molecular profiling of infantile hemangioma: similarities with placenta
2006 OFD/OFT/BSREC/CREC Career Development Fellowships recipients:

**Faculty**

Oscar Benavidez, MD  
Instructor in Pediatrics, HMS  
Department of Cardiology, CHB  
*Improving Care for Children Undergoing Congenital Heart Surgery: Identifying Adverse Events*

Stephen Brown, MD  
Instructor in Radiology, HMS  
Department of Radiology, CHB  
*National Survey of Pediatrician and Obstetrician Attitudes Regarding Pregnancy Management*

Sarah de Ferranti, MD  
Instructor in Pediatrics, HMS  
Department of Cardiology, CHB  
*Nutritional Treatment of Adolescents with Cardiovascular Risk Factors: A Feasibility Study*

Edda Fiebiger, PhD  
Instructor in Pediatrics, HMS  
Division of Gastroenterology, CHB  
*New Strategies towards Better Understanding of Food Allergy*

Ingeborg Friehs, MD  
Instructor in Surgery, HMS  
Department of Cardiac Surgery, CHB  
*Endogenous Angiogenesis Inhibitors Prevent Adaptive Capillary Growth in Hypertrophying Myocardium*

Hanna Gazda, MD, PhD  
Instructor in Pediatrics, HMS  
Division of Genetics, CHB  
*Genetics and Biology of Diamond-Blackfan Anemia*

Andrew Koh, MD  
Instructor in Pediatrics, HMS  
Division of Hematology/Oncology, CHB  
*Mucosal Colonization and Dissemination of Candida albicans*

X. Sean Li, PhD  
Assistant Professor in Surgery  
Department of Urology, CHB  
*Transcriptional Mechanism of Wnt/B-Catenin Signaling Pathway during Mammalian Organogenesis and Tumorigenesis*

Christine Mrakotsky, PhD  
Instructor in Psychology in Department of Psychiatry, HMS  
Department of Psychiatry, CHB  
*Impact of Steroids v Inflammation on Memory and Executive Functions in Children with IBD: A Longitudinal Pilot Study*

Lise Nigrovic, MD  
Instructor in Pediatrics, HMS  
Division of Emergency Medicine, CHB  
*Implementation of a Clinical Decision Rule for Identifying Children with CSF Pleocytosis at Low Risk of Bacterial Meningitis*

Annapurna Poduri, MD  
Instructor in Neurology, HMS  
Division of Epilepsy and Clinical Neurophysiology, Department of Neurology, CHB  
*Genetic Causes of Focal Brain Malformations – A Genome-wide Search*
Children’s Hospital Pathology Foundation Fellowship  
(and HMS Eleanor and Miles Shore Fellowship Program for Scholars in Medicine)  
Laurie L. Jackson-Grusby, PhD  
Assistant Professor of Pathology, HMS  
Department of Pathology CHB  
*Identification of neuron-specific imprinted genes in new animal model (for loss of imprinting)*

HMS Academy Fellowship in Medical Education  
(and HMS Eleanor and Miles Shore Fellowship Program for Scholars in Medicine)  
Amy Juraszek, MD  
HMS Assistant Professor of Pathology, HMS  
Department of Pathology and Cardiology, CHB  
*The Developing Heart: An Interactive Atlas from Bench to Benchside*

Robert M. Smith MD, Anesthesiology Faculty Development Award  
(and HMS Eleanor and Miles Shore Fellowship Program for Scholars in Medicine)  
Mary Ellen McCann, MD  
Assistant Professor of Anesthesia, HMS  
Department of Anesthesiology, Perioperative and Pain Medicine, CHB  
*Does General Anesthesia Harm the Developing Brain?*

2007 OFD/OFT/BREC/CREC Career Development Fellowship recipients  
Faculty  
Omid Akbari, PhD  
Assistant Professor of Pediatrics, HMS  
Division of Immunology, CHB  
*Role of peripheral T cell tolerance and regulatory T cells in protective immunity against allergic asthma*

Amy DiVasta, MD, MMSc  
Instructor in Pediatrics, HMS  
Division of Adolescent Medicine, CHB  
*The effect of hormonal add-back therapy in adolescents treated with a GnRH agonist for endometriosis: A randomized trial*

Michela Fagiolini, PhD  
Assistant Professor of Neurology, HMS  
Department of Neurology, CHB  
Core Program in Neurobiology, CHB  
*Rett's syndrome: Impaired epigenetic control of experience-dependent brain development*

Amy Fleischman, MD, MMS  
Instructor in Pediatrics, HMS  
Division of Endocrinology, CHB  
*Mitochondrial dysfunction contributes to the development of insulin resistance in children*

Christopher Hug, MD, PhD  
Assistant Professor of Pediatrics, HMS  
Division of Respiratory Diseases, CHB  
*Adiponectin and tcadherin interactions: Defining a molecular model*

Juan Ibla, MD  
Instructor in Anesthesia, HMS  
Department of Anesthesia, CHB  
*Anti-inflammatory adaptation to hypoxia: modulation of IkBα degradation via adenosine receptor signaling*
Gabriel Kreiman, PhD, MSc  
HMS appointment pending  
Departments of Neurology and Ophthalmology, CHB  
Core Program in Neurobiology, CHB  
*How is gene expression controlled during the development of primary visual cortex?*

Roopali Roy, PhD  
Instructor in Surgery, HMS  
Department of Vascular Biology, CHB  
Core Program in Vascular Biology, CHB  
*Role of adam12 in the regulation of breast cancer progression and angiogenesis*

Asher Schachter, MD, MMSc, MS  
Assistant Professor of Pediatrics, HMS  
Division of Nephrology, CHB  
*Predictive modeling for pediatric drug development*

Judith A. Jebanathirajah Steen, PhD  
Assistant Professor of Neurology, HMS  
Division of Neuroscience, CHB  
Core Program in Neurobiology, CHB  
*Quantitative proteomics to chart cell cycle-dependent protein regulation*

**Children's Hospital Pathology Foundation Fellowship**  
Jo-Anne Vergilio, MD  
Instructor in Pathology, HMS  
Department of Pathology, CHB  
*Langerhans cell histiocytosis - prognostic markers of disease progression*

**Children's Hospital Department of Neurology Faculty Development Fellowship**  
Maitreyi Mazumdar, MD, MPH, MSc  
Instructor in Neurology, HMS  
Department of Neurology, CHB  
*Building a comprehensive policy model to address health disparities in epilepsy*

**Children's Hospital Department of Anesthesia Milton H. Alper Research Fellowship**  
Roland R. Brusseau, MD  
Instructor in Anesthesia, HMS  
Department of Anesthesia, CHB  
*The effects of intraamniotic fentanyl on the fetal stress response in pregnant sheep*

**Children's Hospital Musculoskeletal Career Development Fellowship**  
Daniel J. Hedequist, MD  
Assistant Professor of Orthopedic Surgery, HMS  
Department of Orthopedic Surgery, CHB  
*Patient morbidity and economic costs related to infected spinal instrumentation*

**2008 OFD/OFT/RRRC/CTREC Career Development Fellowship recipients**  
**Faculty:**  
Asim Ahmed, MD  
Instructor in Pediatrics, HMS  
Division of Infectious Diseases, CHB  
*Viral and Host Determinants of New World Alphaviral Entry*
Debora Duro, MD, MS
Instructor in Pediatrics, HMS
Division of GI-Nutrition, CHB
\(^{13}\text{C}\)-Methionine Breath Test to Assess Liver Disease in Short Bowel Syndrome

Carlos Estrada, Jr., MD
Instructor in Surgery, HMS
Department of Urology, CHB
Novel Bladder Tissue Engineering: Silk Scaffolds and Induced Pluripotent Stem Cells

Arin Greene, MD, MMSc
Instructor in Surgery, HMS
Department of Plastic Surgery, CHB
Growth of Vascular Malformations: Determining the Role of the Endothelium

Lalit Kumar, PhD, MSc
Instructor in Pediatrics, HMS
Division of Immunology, CHB
LRRC8 Signaling in T Cells

Richard Lee, MD
Instructor in Surgery, HMS
Department of Urology, CHB
Characterization of the urinary glycoproteome in renal obstruction

Rachel Rosen, MD, MPH
Instructor in Pediatrics, HMS
Division of GI-Nutrition, CHB
Does esophageal function testing predict outcome after fundoplication? A study using pH, impedance and manometry

Laura Simons, PhD
Instructor in Psychology, HMS
Department of Psychiatry, CHB
Fear-Avoidance in Children and Adolescents with Chronic Pain: Implications for Medical, Physical Therapy, and Psychological Intervention

Wen-Hann Tan, BMBS
Instructor in Pediatrics, HMS
Division of Genetics, CHB
A phase I/II randomized double-blind placebo-controlled trial of Levodopa in Angelman syndrome

Hiroko Wakimoto, MD, PhD
Instructor in Pediatrics, HMS
Department of Cardiology, CHB
A Genetic Pathway for Cardiac Conduction System Development

2009 OFD/OFT/RRRC/CTREC Career Development Fellowship recipients
Faculty:

S. Deborah Chirnomas, MD
Instructor in Hematology-Oncology, Hematology-Oncology; The role of iron in hematopoietic stem cell transplantation toxicity
Eric Fleegler, MD, MPH  
Instructor in Pediatrics, Emergency Medicine; Evaluation of a Web-based Tool to Assess and Refer Adolescents for Health-Related Social Problems

Inga Hofmann Zhang, MD  
Clinical Instructor in Pediatrics, Hematology-Oncology; The role of Hedgehog in hematopoiesis and leukemogenesis

Jonathan Kagan, PhD  
Assistant Professor of Pediatrics, GI-Nutrition; Peroxisomes and the Control of Anti-Viral Signal Transduction

Jayoung Kim, PhD  
Assistant Professor of Surgery, Urology; Interstitial cystitis-associated urinary peptide, APF, regulates p53 via ubiquitination and phosphorylation

Michiko Oyoshi, PhD  
Instructor in Pediatrics, Immunology; Establishment of a new model of atopic dermatitis using filaggrin deficient mice

Sallie Permar, MD, PhD  
Instructor in Pediatrics, Infectious Diseases; Vaccine-elicited, Simian Immunodeficiency Virus-specific immune responses in breast milk

Gregory Sawicki, MD, MPH  
Instructor in Pediatrics, Respiratory Diseases; An Assessment of Readiness for Transition to Adult-Centered Health Care Among Adolescents with Cystic Fibrosis

Valerie Schumacher, PhD  
Instructor in Pediatrics, Nephrology; A role for RNA granules in glomerular kidney disease

Tanvi Sharma, MD  
Instructor in Pediatrics, Infectious Diseases; The Relationship between Mitochondrial Dysfunction and Insulin Resistance in HIV-Infected Children Receiving Antiretroviral Therapy

2010 OFD Faculty Career Development and Wolbach Fellowship Awardees

Wolbach Fellowship:

Sudha Biddinger, MD, PhD; Assistant Professor of Pediatrics, Endocrinology; Insulin Signaling and Insulin Resistance in the Metabolic Syndrome

Faculty Career Development Fellowships:

Pankaj Agrawal, MD, MMSc; Instructor in Pediatrics, Newborn Medicine; Zebrafish as an animal model to study cofilin-2 and regulation of skeletal muscle actin dynamics

Yee-Ming Chan, MD, PhD; Instructor in Pediatrics, Endocrinology; Kisspeptin as a novel in vivo probe of reproductive neuroendocrine function

Esi Lamouse-Smith, MD, PhD; Instructor in Pediatrics, GI-Nutrition; The impact of intestinal flora on systemic immune responses to immunization and infection

Katherine Lemon, MD, PhD; Instructor in Pediatrics, Infectious Diseases; Identification of new antibiosis from upper respiratory tract microbiota
Tobias Loddenkemper, MD; Assistant Professor of Neurology; Treatment of pediatric status epilepticus: Analysis of 42 US Pediatric Hospitals

Yingjie Lu, PhD; Instructor in Pediatrics, Infectious Diseases; Novel fusion conjugate vaccines for optimal delivery of T cell antigens

Caleb Nelson, MD, MPH; Assistant Professor of Surgery (Urology); Screening for vesicoureteral reflux among siblings of children with reflux: clinical outcomes and decision analysis

Shan Qin, MD, PhD; Instructor in Pediatrics, Nephrology; Hyperactivation of Rap1 in Polycystic Kidney Disease

Patrick Smits, PhD; Instructor in Orthopedic Surgery; Delineating protein trafficking pathways using heritable disorders of bone and cartilage

Jennifer Whangbo, MD, PhD; Instructor in Pediatrics, Hematology-Oncology; Analysis of new components of the systemic RNAi machinery

2011 OFD Faculty Career Development Fellowship Awardees

Andrew Dauber, MD; Instructor in Pediatrics, Endocrinology; New Genetic Classes of Idiopathic Short Stature

Elizabeth Egan, MD, PhD; Clinical Fellow in Pediatrics/Instructor in Pediatrics 7/1/2011, Infectious Diseases; Host-pathogen interactions in malaria

Maria Lehtinen, PhD; Instructor in Pediatrics, Genetics/Medicine; Dept of Pathology; Active regulation of the cerebrospinal fluid (CSP) proteome in development and disease

Elliot Melendez, MD; Instructor in Pediatrics, Critical Care and Emergency Medicine; Div. of Critical Care, Dept. of Anesthesia; NT-proBNP and high sensitivity Troponin as novel biomarkers in children with severe sepsis

Kristin Moffitt, MD; Instructor in Pediatrics, Infectious Diseases; Innate and acquired immune response to novel pneumococcal T cell antigens

Saurabh Patel, MD, PhD; Clinical Fellow/Instructor in Pediatrics 7/1/2011, GI-Nutrition; Structural studies on RH2/RH5: critical plasmodium invasion genes

David Saslowsky, PhD; Instructor in Pediatrics, GI-Nutrition; Flotillin as a Determinant of Membrane Structure and Functions

Beth Stevens, PhD; Assistant Professor of Neurology; Role of Microglia in Activity-Dependent Synaptic Refinement

Sara Toomey, MD, MPH; Instructor in Pediatrics, General Pediatrics; Improving Quality of Children's Health Care with Integrated Patient Care Consults

Naamah Zitomersky, MD; Instructor in Pediatrics, GI-Nutrition; Isolation, adherence phenotyping, and enterocyte effects of Bacteroidales from children with Inflammatory Bowel Disease
2012 OFD Faculty Career Development Fellowship Awardees

Alyna Chien, MD, MS; Instructor in Pediatrics, General Pediatrics; Improving Pediatric Risk Adjustment Algorithms

Monica Gostissa, PhD; Instructor in Pediatrics, Cellular and Molecular Medicine; Dissecting the Role of End Joining and DSB Response Factors in Intra-and-Inter-Chromosomal Translocations

Hesham Hamoda, MD, MPH; Instructor in Psychiatry, Psychiatry; DTI as a Predictor of Chronic Attention and Memory Impairments in TBI

Carla Kim, PhD; Assistant Professor of Genetics, Stem Cell Program; TrkB Signalling in Human Lung Cancer Stem Cells

Tadanori Mammoto, MD, PhD; Instructor in Surgery, Vascular Biology; Bioengineering of Tooth Organs from Adult Tissues

John Misasi, MD; Instructor in Pediatrics, Infectious Diseases; Filovirus Entry Mechanisms

Alexander Opotowsky, MD, MPH; Instructor in Pediatrics, Cardiology; Cardiopulmonary Rehabilitation for Adolescents and Adults with Congenital Heart Disease

Lawrence Rhein, MD; Assistant Professor of Pediatrics, Newborn Medicine and Respiratory Diseases; Innovative Strategies to Predict Silent Aspiration in Premature Infants

Neeraj Surana, MD, PhD; Instructor in Pediatrics, Infectious Diseases; Deconstructing the Microbiota to Define an Immunogenic Core

Jennifer Wu, MD, PhD; Instructor in Pediatrics, Hematology; Glucocorticoid Resistance and the SWI/SNF Complex in Pediatric Acute Lymphoblastic Leukemia