

# 2010-2019 Research Award Recipients

## 2010

### **Pilot Award**

*Motion-Robust, High Resolution MRI of Lungs with Ultra-Short TR/TE 2D SSFP and HASTE Sequences in Pediatric Patients with Cystic Fibrosis: Comparison to HRCT and Correlation with Pulmonary Function Tests*

Edward Lee, MD, MPH, Children's Hospital, Boston

### **N. Thorne Griscom Award for Education in Pediatric Radiology**

*Developing And Implementing A Sustainable Appropriately Designed Paediatric Radiology Fellowship & Teaching Program Within A Large Teaching Hospital In A Developing Country.*

Manohar Shroff, MBBS, Hospital for Sick Children, Toronto

### **Seed Grant**

*Pilot Study of Neuroimaging Predictors of Cognitive Impairment and Autistic Spectrum Disorder in Tuberous Sclerosis Complex*

Elysa Widjaja, MD, Hospital for Sick Children, Toronto

### **Fellow Award**

*Whole Body Diffusion-weighted MR Scans for Cancer Staging in Pediatric Patients: A Radiation-free Alternative to FDG-PET*

Rakhee Gawande, MBBS, University of California – San Francisco

## 2011

### **Pilot Award**

*Development of a Prototype Database for Collaborative Pediatric Interventional Radiology Research Utilizing a Multiinstitutional Review of Inferior Vena Cava Filter Placement in Children*

Michael Temple, MD, Hospital for Sick Children, Toronto

### **Seed Grant**

*Assessing early chemotherapy response of pediatric low grade glioma using combined quantitative PET and MR imaging*

Sunhee Kim, MD, Childrens Hospital of Pittsburgh

### **Fellow Award**

*Functional and structural measures of early outcome in very preterm-born toddlers*

Divyata Hingwala, MBBS, Tirunal Institute for Medical Sciences and Technology and Hospital for Sick Children, Toronto

## **2012**

### **Pilot Award**

*Developing the framework of the global federation of pediatric radiologists*

M. Ines Boechat, MD, FACR, David Geffen School of Medicine at UCLA on behalf of the WFPI Board of Directors

### **Seed Grant**

*Testing the use of the emerging  $\gamma$ -H2AX biomarker for quantifying DNA damage from pediatric interventional procedures involving ionizing radiation - the first step in assessing the use of DNA protective agents in children*

Bairbre Connolly, MD, The Hospital for Sick Children, University of Toronto

### **Fellow Awards**

*Arterial Spin Labeling Brain Perfusion MR in the Evaluation of White Matter Injury of Prematurity*  
Bruno P. Soares, MD, University of California, San Francisco, Mentor, Dr. James Barkovich.

*MR imaging for the assessment of Duchenne muscular dystrophy: diffusion tensor imaging and fat quantification as imaging markers of disease progression*

Skorn Ponrartana, MD, MPH, Children's Hospital Los Angeles, Mentor: Dr. Vicente Gilsanz.

## **2013**

### **Pilot Award**

*Innovative Molecular and MR Neuroimaging Biomarkers of Pediatric Brain Tumors*

Ashok Panigrahy, MD, Children's Hospital of Pittsburgh of UPMC

### **Seed Grants**

*Liver Elastography as a marker for progressive hepatic disease and failing Fontan physiology"*

Daniel B. Wallihan, MD, Cincinnati Children's Hospital Medical Center

*Pilot study of rapid multiparametric abdominal MRI in the diagnosis of pediatric appendicitis"*

Katharine L. Hopkins, MD, Oregon Health and Sciences University

*Early Knee Cartilage Changes in the Obese Child "Early Knee Cartilage Changes in the Obese Child"*

Nancy Chauvin, MD, The Children's Hospital of Philadelphia

### **Fellow Award**

*Assessment of the diagnostic quality and clinical value of pediatric imaging studies performed at non-specialist imaging centers and imported to the radiology PACS system at a pediatric teaching hospital.*

Aisling Snow, MB BCh BAO, Boston Children's Hospital

## **2014**

### **Pilot Awards**

*"Quantitative MR imaging of Cartilage in Juvenile Idiopathic Arthritis (JIA)"* Hee Kyung Kim, MD, Cincinnati Children's Hospital Medical Center

*"Molecular-Functional Imaging of Hypoxia in Childhood Sarcomas: Feasibility Steps Towards Personalized Medicine"* Andrea Doria, MD, PhD, MSc, Hospital for Sick Children

### **Seed Grants**

*"A randomized controlled clinical and MRI trial of intra-articular injections with platelet rich plasma in patients with juvenile osteochondritis dissecans of the knee"* Michael F. Fadell, MD, University of Colorado Denver School of Medicine, Aurora

*"Diffusion Tensor Imaging in Pediatric Renal Transplants: Testing A Potential Non-Invasive Alternative to Biopsy"* Jesse Courtier, MD, University of California in San Francisco

### **Research Fellow Award**

*"Characterization of Cerebro-Cerebellar Functional Connectivity in Preterm Infants"* Mai-Lan Ho, MD, University of California in San Francisco

## **2015**

### **Pilot Awards**

*"Understanding Cardiac Biomechanics in Congenital Heart Disease: A Serial Imaging Study of Single Ventricle Pediatric Patients using Cardiac MRI"* - Ramkumar Krishnamurthy, PhD, et al. Texas Children's Hospital

*"Enhancing Safety and Quality of Medical X-ray Imaging"* Steven Don, MD, St. Louis Children's and Robert D. MacDougall, M.Sc., Boston Children's Hospital

### **Research Fellow Award**

*"Structural and Functional Connectivity of the Attention Network: Identifying Imaging Biomarkers of Attention Impairment in Pediatric Concussions and Neuroplasticity after Cognitive Training"* - University of California in San Francisco - Alireza Radmanesh, MD, et al. University of California in San Francisco

### **Seed Grants**

*"Shear Wave Sonoelastography for the Noninvasive Evaluation of Hepatic Fibrosis in the Pediatric Population"* - Shannon G. Farmakis, MD, St. Louis University School Of Medicine

*"Imaging Utilization in the Diagnosis Of Appendicitis in Children in the United States: Analysis Of Trends, Costs And Outcomes"* - Hansel J. Otero, MD, Et Al. Children's National Medical Center

## **2016**

### **Education Project Grant**

*"MOOC-based Repetitive Image Quizzes for Learning Concepts in Pediatric Radiology"* - Cara Morin, MD, PhD, University of Maryland

### **Seed Grant**

*"Study for the detection of gadolinium deposition in resected bowel specimens of patients with inflammatory bowel disease"* - Shannon Farmakis, MD, Cardinal Glennon Children's Hospital, St. Louis

### **Young Investigator**

*"Accurate assessment of kidney function through motionrobust DCE-MRI"* - Sila Kurugol, PhD, Boston Children's Hospital

### **Multi-Institutional Pilot Award**

*"Single Ventricle Reconstruction III: Brain Connectome and Neurodevelopmental Outcomes - Part II"* - Ashok Panigrahy, MD, Children's Hospital of Pittsburgh of UPMC

## **2017**

### **Education Project Grants**

*"Facilitating a Pediatric Radiology Curriculum in the Global Health Setting Using Tablet Computers"* - Jennifer Nicholas, MD, Washington University School of Medicine

*"Pediatric Cardiovascular CT: A Faculty Development Initiative"* - Lorna P. Browne, MBBCh,BAO, Children's Hospital of Colorado

### **Seed Grant**

*"Feasibility of contrast-enhanced transfontanelle ultrasound: comparison with magnetic resonance imaging in the neonate"* - Judy H. Squires, MD, Children's Hospital of Pittsburgh

### **Young Investigator**

*"In vivo Tau Imaging using 18F-AV-1451 PET Radioligand in a Swine Model of Closed Head Injury"* - Neha S. Kwatra, MD, Children's Hospital, Boston

### **Multi-Institutional Pilot Award**

*"Determination of Normal Liver Stiffness by MR Elastography in Children"* - Andrew Trout, MD, Cincinnati Children's Medical Center, with Children's Hospital of Philadelphia, Massachusetts General Hospital, Washington University School of Medicine

## **2018**

### **Education Project Grant**

*"Child Abuse Radiology: Report, Research and Teaching Tool – CAR3T2"* - Jeannette M. Perez-Rossello MD, Boston Children's Hospital

### **Seed Grant**

*"Integrative Imaging Biomarker Assessment of Hepatic Involvement and Severity in Gaucher Disease to Tailor Personalized Therapy"* - Andrew Degnan, MD, MPhil, Children's Hospital of Philadelphia

### **Young Investigator**

*"High Performance Engine for Dose-Reduced CT Imaging System"* - Xiao Wang, PhD, Boston Children's Hospital; Mentor: Simon Warfield

### **John Dorst-Felix Fleischner Seed Grant Awards**

*Utility of Respiratory Gated Dynamic Volumetric CTA in the Awake State Compared to Non-Gated Dynamic Volumetric CTA and Bronchoscopy in Pediatric Patients With Suspected Proximal Airway Obstruction-* Anna Lillis, MD, Nationwide Children's Hospital, Columbus, OH

*Automated Image Quality Assessment Utilizing Machine Learning in Clinical Chest Projection Imaging in Young Children* - Gary Schooler, MD, Duke University, Durham, North Carolina

### **Multi-Institutional Pilot Awards**

*"Contrast-Enhanced Brain Ultrasound in Extreme Premature Fetal Lambs Maintained by the EXTra-uterine Environment for Neonatal Support (EXTEND): Evaluation of Perfusion Parameters and Assessment of Intracranial Pressure"* - Ryne A Didier, MD, Children's Hospital of Philadelphia

*"A Pilot Study to Assess if fMRI is a Potential Radiological Biomarker in Youth with Persistent Concussion Symptoms"* - Jessie Aw-Zoretic, MBChB, Lurie Children's Hospital, Chicago

*"Zero Echo-Time MRI for Radiation Free Pediatric Bone Imaging"* - Mai-Lan Ho, MD, Mayo Clinic, Rochester, Minnesota

### **2019**

#### **Education Project Grant**

*Pediatric Cardiovascular CT: A Fellowship Elective Program;* Lorna P. Browne, MD; Children's Hospital of Colorado

*Pediatric Interventional Radiology Online Handbook;* Gulraiz Chaudry, MBChB, FRCR, FSIR; Boston Children's Hospital

#### **Seed Grant Awards**

*How does the structural connectome evolve after pediatric epilepsy surgery? Applying machine learning to the evaluation and prediction of changes in white matter connectivity over time following epilepsy surgery in children;* Ali Y. Mian, MD; Mallinckrodt Institute of Radiology - Washington University

*Effect of polyphenol supplementation on hepatic steatosis and vascular elastography and intima media thickness in overweight and obese adolescents: a pilot trial;* Ramy El Jalbout, MD, MSc; CHU Sainte Justine Hospital, Montreal

### **Young Investigator Grants**

*Markerless Prospective Motion Correction: Better Brain MRIs without Sedation; Camilo Jaime Cobos, MD; Boston Children's Hospital*

*Artificial intelligence to enhance neuroradiological assessment of brain injury and development in preterm neonates; Matthias W Wagner MD; The Hospital for Sick Children, Toronto*

### **Pilot Award**

*Evaluation of Quantitative Susceptibility Weighted Imaging as a Novel Marker of Acute Neonatal Hypoxic Ischemic Brain Injury; Paggie Kim, MD, MPH; Loma Linda University School of Medicine*

### **Multi-Institutional Pilot Award**

*A multicenter-study to assess feasibility of non-sedated MRU using motion robust DCE-MRI; Sila Kurugol, PhD; Boston Children's Hospital; Houchun Hu, PhD; Nationwide Children's Hospital and Richard Jones, PhD; Children's Healthcare of Atlanta*