

# RSNA R&E Foundation Announces 2016 Grant Recipients

The RSNA Research & Education (R&E) Foundation funded 101 grants totaling \$4 million. The Foundation's Board of Trustees thanks the Vanguard companies, individuals and private practices whose generous contributions have made the following grants possible.



## RESEARCH SCHOLAR GRANT

### Jalal B. Andre, MD

University of Washington

#### RSNA Research Scholar Grant

Evaluating the Prevalence, Temporal Etiology, and Cost of Patient Motion During Clinical MR Examinations

### Rivka Rachel Colen, MD

The University of Texas  
MD Anderson Cancer Center

#### Agfa HealthCare/RSNA

Research Scholar Grant  
Radiome Sequencing of Glioblastoma: Decoding the Imaging Genomic Landscape and Heterogeneity

### David Dreizin, MD

University of Maryland School of Medicine and  
R Adams Cowley Shock Trauma Center

#### RSNA Research Scholar Grant

Development and Validation of an MDCT-based Decision Support and Outcome Prediction Tool for Bleeding Pelvic Fractures Using Semi-automated Volumetric Hematoma Analysis and Probabilistic Modeling

### Michael David Farwell, MD, MA

Hospital of the University of Pennsylvania

#### RSNA Research Scholar Grant

Development of a Reporter Gene for In Vivo PET Imaging of Chimeric Antigen Receptor (CAR) T Cells Directed at Solid Tumors

### Gregory N. Gan, MD, PhD

University of New Mexico Cancer Center

#### RSNA Research Scholar Grant

Mechanism of Hedgehog Pathway-mediated Radiation-induced Tumor Repopulation

### Manu Shri Goyal, MD, MSc

Washington University School of Medicine

#### ASNR/RSNA Research Scholar Grant

Integrating Brain Imaging and Metabolomics in Malnourished Children

### Richard S. Ha, MD

Columbia University

#### RSNA Research Scholar Grant

The Effect of Ulipristal Acetate (UPA) on Breast Cell Proliferation Measured by Ki-67 and Breast MRI BPE and its Potential as a Chemoprevention Agent

### Kathy Han, MD, MSc

Princess Margaret Cancer Center,  
University of Toronto

#### RSNA Research Scholar Grant

The Potential for Metformin to Improve Tumor Oxygenation in Locally Advanced Cervix Cancer: A Phase II Randomized Trial

### Kate Hanneman, MD

University of Toronto

#### GE Healthcare/RSNA

#### Research Scholar Grant

Exploring the Relationship Between Left Ventricular Outflow Tract Obstruction, Exercise-induced Troponin Release and Myocardial Fibrosis in Hypertrophic Cardiomyopathy Using Molecular and Imaging Biomarkers

### Jeremy Josef Heit, MD, PhD

Stanford University

#### Bracco Diagnostics Inc./RSNA

#### Research Scholar Grant

Resting State Spontaneous Fluctuations of the BOLD Signal for Penumbra Assessment in Endovascular Stroke Candidates

### Michael Iv, MD

Stanford University Medical Center

#### RSNA Research Scholar Grant

Using Ferumoxytol-enhanced MRI to Assess Tumor-associated Macrophages in Human Glioblastoma Multiforme

### Austin Kirschner, MD, PhD

Vanderbilt University

#### RSNA Research Scholar Grant

Mechanism of PIM1 Kinase-mediated Radiosensitization for Prostate Cancer Treatment

### Pejman Jabehdar Maralani, MD, FRCP

Sunnybrook Research Institute,  
University of Toronto

#### RSNA Research Scholar Grant

Quantitative Blood Oxygenation Level Dependent (qBOLD) MRI for Assessment of Tumor Hypoxia in Glioblastoma Multiforme: Validation with Intra-operative and Histological Correlation

### Daniele Marin, MD

Duke University Medical Center

#### RSNA Research Scholar Grant

Decreased Variability for Robust Imaging-based Quantification of Tumor Heterogeneity

### Rajni Natesan, MD, MBA

The University of Texas  
MD Anderson Cancer Center

#### Carestream Health/RSNA

#### Research Scholar Grant

Impact of the Updated 2015 American Cancer Society and 2016 United States Preventive Services Task Force Breast Cancer Screening Guidelines on Screening Mammography Utilization Rates and Screen-detected Breast Cancer Across Demographic Groups in the Greater Houston Area

### Matthew J. Nyflot, PhD

University of Washington

#### RSNA Research Scholar Grant

Quantitative Sulfur Colloid SPECT/CT Radiomics to Guide Precision Radiotherapy for Patients with Hepatocellular Carcinoma

### Elizabeth J. Sutton, MD

Memorial Sloan Kettering Cancer Center

#### Guerbet/RSNA Research Scholar Grant

#### Percutaneous Breast MRI Biopsy as an

#### Alternative to Surgery in Diagnosing a

#### Complete Pathologic Response Post

#### Neoadjuvant Chemotherapy

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# Thank you to our donors

The Foundation wants to provide special acknowledgment for the distinguished individuals and the Visionaries in Practice (VIP) program donors who have established endowments and awards in their names or in the names of those honored.

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Derek Harwood-Nash, MD

Martin R. Prince, MD, PhD

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GE Healthcare



### Derik L. Davis, MD

University of Maryland School of Medicine

#### Hitachi Medical Systems/RSNA

#### Research Seed Grant

Quantitative MRI of the Shoulder in Older Adults: A Pilot Study to Evaluate the Association of Intramuscular Fatty Infiltration, Functional Outcome and Re-tear Rate Following Surgical Repair of Rotator Cuff Tears

### Priyanka Jha, MBBS

University of California, San Francisco

#### RSNA Research Seed Grant

Noninvasive In Vivo Hyperpolarized [1-13C] Pyruvate Magnetic Resonance Imaging to Detect Alterations in Placental Metabolism in Gestational Hypertensive Disorders in a Small Animal Model

### Avinash Ramesh Kambadakone, MD

Massachusetts General Hospital

#### Toshiba America Medical Systems/RSNA

#### Research Seed Grant

Multi-parametric DECT Assessment of Therapeutic Response to Neo-adjuvant Chemo Radiation in Pancreatic Cancer Patients to Determine Surgical Resectability

### Alexander Lerner, MD

University of Southern California

#### Philips/RSNA Research Seed Grant

Utility of Contrast Enhanced Ultrasound and 4DCT for Preoperative Detection and Localization of Parathyroid Adenomas

### Sara Lewis, MD

Mount Sinai Medical Center

#### RSNA Research Seed Grant

MRI-based Surrogate Imaging Markers of Transcriptome Subclasses and Signatures in Hepatocellular Carcinoma

### Timur Mitin, MD, PhD

Oregon Health & Science University

#### Toshiba America Medical Systems/RSNA

#### Research Seed Grant

Novel Imaging of Lymph Nodes in Patients with Rectal Cancer Using Ferumoxytol-enhanced MRI

### Nima Nabavizadeh, MD

Oregon Health & Science University

#### RSNA Research Seed Grant

Circulating Tumor DNA in Plasma of Patients Undergoing Trimodality Therapy for Esophageal Cancer: A Potential Tool for Neoadjuvant Treatment Response Assessment

### Thanh Binh Nguyen, MD

The Ottawa Hospital, University of Ottawa

#### Bayer HealthCare/RSNA

#### Research Seed Grant

Preoperative Identification of Isocitrate Dehydrogenase Mutation in Gliomas using MR Spectroscopy, Diffusion-weighted and Perfusion-weighted Imaging

### O. Kenechi Nwawka, MD

Hospital for Special Surgery, New York

#### RSNA Research Seed Grant

Use of Elastography to Quantify Change in Upper Extremity Muscle Spasticity Following Botox Injection in Children with Spastic Cerebral Palsy

### Prashant Raghavan, MD

University of Maryland

#### RSNA Research Seed Grant

Neural Network Disruption in Perinatal Hypoxic Ischemic Injury as a Predictor of Neurodevelopmental Outcome

### Ty Kanyon Subhawong, MD

University of Miami

#### Toshiba America Medical Systems/RSNA

#### Research Seed Grant

Semi-automated qMRI to Assess Desmoid Tumor Volumetric and Stromal Changes Induced by Systemic Therapy

### Mubin Isaac Syed, MD

Dayton Interventional Radiology

#### Cook Medical Cesare Giarurco/RSNA

#### Research Seed Grant

Gastric Artery Embolization Trial for Lessening Appetite Nonsurgically Part 2 (GET LEAN II)

### Aradhana Mukherjee Venkatesan, MD

The University of Texas

MD Anderson Cancer Center

#### Toshiba America Medical

#### Systems/RSNA Research Seed Grant

Functional and Metabolic Imaging Biomarkers of Radiation Response in High Risk HPV+ Tumors

### Etay Ziv, MD, PhD

Memorial Sloan Kettering Cancer Center

#### RSNA Research Seed Grant

Signaling Pathways Predictive of Response to Radioembolization of Colorectal Liver Metastases

## RESEARCH RESIDENT/FELLOW GRANT

### Allen Ardestani, MD, PhD

Cedars-Sinai Medical Center

#### RSNA Research Resident Grant

Near-infrared Spectroscopy of the Resting Brain for Predicting Neurologic Outcomes in the Comatose Patient

**Divya S. Bolar, MD, PhD***Massachusetts General Hospital***Bracco Diagnostics Inc./RSNA Research Resident Grant**

Using Novel MRI Techniques to Identify Hemodynamic and Metabolic Parameters Predictive of Cognitive Outcome after Carotid Endarterectomy

**Paco E. Bravo, MD***Brigham and Women's Hospital***RSNA Research Fellow Grant**

Somatostatin Receptor-targeted Imaging in Patients with Suspected Cardiac Sarcoidosis

**Baocheng Chu, MD, PhD***University of Washington***RSNA Research Fellow Grant**

A High-resolution 3D Isotropic MR Sequence for Combined MRA and Vessel Wall Assessment of Intracranial Vascular Diseases

**Neal Corson, MD, PhD***University of California, San Diego***RSNA Research Resident Grant**

MRI-derived Cellularity Index as a Potential Noninvasive Imaging Biomarker for Renal Cell Carcinoma

**Pippa Cosper, MD, PhD***Washington University in St. Louis***RSNA Research Resident Grant**

Identifying Human and Viral Transcriptional Profiles in Cervical Tumors During Chemoradiation that Can Predict for Treatment Response

**Jamal J. Derakhshan, MD, PhD***University of Pennsylvania***Siemens Healthineers/RSNA Research Fellow Grant**

Feasibility Assessment and Technical Development of Noninvasive Globe Temperature Measurement and Mapping Using DWI-thermometry MRI

**Rahul S. Desikan, MD, PhD***University of California, San Francisco***Ralph Schlaeger Charitable Foundation Research Fellow Grant**

An Automated Atlas of the Human Brainstem and Cerebellum

**Rebecca A. Dumont Walter, MD***University of California, San Francisco***RSNA Research Fellow Grant**

Exploiting Bacterial Iron Metabolism for Spinal Infection Imaging with Positron Emission Tomography

**Laura Burns Eisenmenger, MD***University of Utah***RSNA Research Resident Grant**

Development of an MRI-compatible Vessel Wall Inflammation Animal Model

**Christine Elissa Eyler, MD, PhD***Dana Farber Cancer Institute***Varian Medical Systems/RSNA Research Resident Grant**

Integrated Epigenomic Analysis to Identify Determinants of Radiation Response in Mouse Lung Tumors Treated with Image-guided Conformal Radiotherapy

**Erin Gillespie, MD***University of California, San Diego***RSNA Research Resident Grant**

Develop and Test a Novel Interactive Contouring Atlas for Radiation Oncology

**George Daniel Grass, MD, PhD***University of South Florida/H. Lee Moffitt Cancer Center & Research Institute***RSNA Research Resident Grant**

Targeting Metabolic Complexes in Small Cell Lung Cancer to Augment Radiosensitivity

**Aaron Joseph Grossberg, MD, PhD***The University of Texas MD Anderson Cancer Center***RSNA Research Resident Grant**

The Role of Orexin Signaling in Brain Radiation-induced Fatigue

**Pedram Heidari, MD***Massachusetts General Hospital***RSNA Research Resident Grant**

Redifferentiation of Neuroendocrine Carcinomas for Improved Efficacy of Molecularly Targeted Radiotherapy

**Wen Jiang, MD, PhD***The University of Texas MD Anderson Cancer Center***RSNA Research Resident Grant**

Combining Radiation with Phosphatidylserine Blockade Promotes Immunogenic Phagocytosis and Generates Long-lasting Anti-tumor Immunity

**Sarah N. Khan, MD***University of California, Los Angeles***Philips/RSNA Research Resident Grant**

Tumor MicroRNA Expression Profiles as Biomarkers for Predicting Hepatocellular Carcinoma Tumor Response to Y90 Radioembolization

**Benjamin H. Lok, MD***Memorial Sloan Kettering Cancer Center***Philips/RSNA Research Resident Grant**Utilizing a Novel [<sup>18</sup>F]PARPi PET Radiotracer to Predict the Efficacy of PARP Inhibitor Radiosensitization in Small Cell Lung Cancer**Jonathon Kirk Maffie, MD, PhD***Columbia University***Prince Research Resident Grant**

Anatomical Covariance of Fetal Brain Regions as a Tool to Identify Early Developmental Pathology of Intrinsic Brain Networks

**Hugh C.J. McGregor, MD***University of California, San Francisco***RSNA Research Fellow Grant**

In Vivo Endothelial Cell Gene Expression Analysis of Venous Outflow Stenoses in Hemodialysis Arteriovenous Fistulas Utilizing a Novel Endovascular Sampling Technique

**Amanda M. Murphy, MD, PhD***University of Toronto***RSNA Research Fellow Grant**

VIPER-DCI: Vascular-Perfusion Imaging for Prediction and Early Recognition of DCI and Relationship to Clinical Outcome

**Michael F. Regner, MD***University of Colorado***Hitachi Medical Systems/RSNA Research Resident Grant**

Insular Inhibitory Neuromodulation to Reduce Cigarette Craving and Alter Brain fMRI Connectivity and Activity Patterns in Smokers

**Pavel Rodriguez, MD***The University of Texas Health Science Center at San Antonio***RSNA Presidents Circle Research Resident Grant**

Pilot Phase II Clinical Trial: Efficacy of Methylene Blue in Mild Cognitive Impairment

**Ashley Sekhon, MD***The Ohio State University***FUJIFILM Medical Systems/RSNA Research Resident Grant**

Feasibility of Creating a Cosmetic Image Analysis Objective (CIAO) Scoring Tool for Evaluation of Cosmetic Results From Breast Conserving Therapy

**Mark Anthony Sellmyer, MD, PhD***University of Pennsylvania***Philips/RSNA Research Resident Grant**

Multifunctional PET Radiotracers for Quantitative Reporter Gene and Bacterial Imaging

**Sina Tavakoli, MD***University of Washington***RSNA Research Fellow Grant**

MR Spectroscopy of Carotid Artery: An NMR Metabolomics Approach to Characterize Bioenergetic Divergence of Macrophages in Vulnerable Atherosclerotic Plaques

**Michael C. Veronesi, MD, PhD***The University of Chicago***Silver Anniversary Campaign Pacesetters Research Fellow Grant**

Validation of PET/CT Radiolabeled Nanoparticle Imaging for Intranasal Drug Delivery to the Brain

**Daniel Richard Wahl, MD, PhD***University of Michigan***RSNA Research Resident Grant**

Inhibiting Isocitrate Dehydrogenase 1-mediated Reductive Biosynthesis to Augment Glioblastoma Therapy

**Eric Wehrenberg-Klee, MD***Massachusetts General Hospital***RSNA Research Fellow Grant**

HER3 PET Imaging for HER2+ Breast Cancer Adaptive Therapy Guidance

**Kaveh Zakeri, MD, MAS***University of California, San Diego***RSNA Research Resident Grant**

Restriction Spectrum Imaging as a Novel Biomarker of Treatment Response in Cervical Cancer

**RESEARCH MEDICAL STUDENT GRANT****Thomas Battey, BS***University of Maryland***RSNA Research Medical Student Grant**

Prediction of Post-traumatic Abdominal Compartment Syndrome Using Computed Tomography and Semi-automated Segmentation of Intra-abdominal Fluid Volumes

**Mark Alexander Forsberg, BS***Thomas Jefferson University***Canon U.S.A./RSNA Research Medical Student Grant**

Evaluation of Fluoroscopic Image Quality Using Quantitative Metrics Derived From Clinical Images

**Mansur Ghani, BS***Yale University***RSNA Research Medical Student Grant**

Early Survival Prediction After Radioembolization for HCC: A 3D Quantitative MRI Assessment of Tumor Response

**Christopher Thomas Hensley, PhD***UT Southwestern Medical Center***RSNA Research Medical Student Grant**

Understanding the Cellular Origins of Tumor Tracer Data in Non-small Cell Lung Cancer Tumors

**Xiaojing Huang, PhD***Washington University in St. Louis***RSNA Research Medical Student Grant**

Effect of Glucose Metabolism on Sensitivity to Chemoradiation in Cervical Cancer Cells

**Manoj Jagani, BS***Mayo Clinic, Minnesota***RSNA Research Medical Student Grant**

RNA Sequencing Analysis and Quantification of Intracranial Gadolinium Deposition in a Rat Model

**Brian Gabriel Jiang, BS***Duke University***RSNA Research Medical Student Grant**

Optimization of a Frequency-based Fusion Technique for Improving the Image Quality on Low Energy Virtual Monochromatic Images From Dual Energy CT

**Aasheesh Kanwar, BS***The University of Texas MD Anderson Cancer Center***RSNA Research Medical Student Grant**

Radiomic Assessment of Oropharyngeal Cancers Treated with Radiation Therapy: Predictive and Prognostic Quantitative Imaging Biomarkers From CT Texture Analysis

**Mike Kwon, MSBME***University of Southern California***RSNA Research Medical Student Grant**

Lacunar Viewpoint of Renal Masses: A Quantitative Technique

**Howard Jinsoo Lee, BA***Enrolled at Duke University Medical School***Research conducted at University of Washington****RSNA Research Medical Student Grant**

Correlation of Functional Imaging Heterogeneity in Lung Cancer Radiation Treatment to Clinical Outcomes of Toxicity and Efficacy with SPECT/CT Ventilation/Perfusion Scans and FDG PET/CT Scans

**Shruti Mishra, BS***Washington University in St. Louis***RSNA Research Medical Student Grant**

Quantitative Assessment of In Vivo Tau Pathology in Preclinical Alzheimer Disease and Early Dementia

**Angel Morán, BS***University of California, Davis***RSNA Research Medical Student Grant**

Combined PET/CT-based Radiomics Modeling for Locally Advanced Non-small Cell Lung Cancer: Toward Personalized Radiotherapy

**Michael Nguyentat, BA***University of California, Irvine***RSNA Research Medical Student Grant**

Risk Assessment of Prostate Lesions by Utilizing Multiparametric MRI PIRADSv2 and MRI/Transrectal Ultrasound (TRUS) Fusion Biopsy

**Jean-Pierre Obeid, BS***University of Miami***Philips/RSNA Research Medical Student Grant**

Multiparametric Evaluation of Preoperative MRI in Early Stage Breast Cancer: Prognostic Impact of Peri-tumoral Fat

**Jeremy Paluch, BS***University of Southern California***RSNA Research Medical Student Grant**

Utility of Shear Wave Elastography to Assess Liver Fibrosis in Liver Transplant Patients with Chronic Liver Disease

**Neil Panjwani, BSE***University of California, San Diego***RSNA Research Medical Student Grant**

Develop and Test a Novel Interactive Contouring Atlas for Radiation Oncology

**Sherveen Nick Parivash, MS***Enrolled at Duke University Medical School***Research conducted at Stanford University****RSNA Research Medical Student Grant**

Characterizing the Radiologic Abnormalities Observed in Chronic Fatigue Syndrome and Assessing the Potential Use of Advanced MRI in Clinical Diagnosis

**Benjamin Vincent Park, PhD***University of Illinois at Chicago***RSNA Research Medical Student Grant**

Histological Evaluation of Radiologic Diagnosis in HCC Patients After Y90 Radioembolization

**Charles Puza, BA***Duke University***RSNA Research Medical Student Grant**

Investigation of Mechanisms of Thermal Ablation Zone Enlargement When Combined with Transarterial Embolization for Treatment of Liver Tumors

**Omid Shearkhani, HBSc***University of Toronto***RSNA Research Medical Student Grant**

Developing and Evaluating the Accuracy of a Jacobian Operator-based Vector Displacement Field Technique to Detect Volume Changes of Metastatic Brain Tumors in Serial MR Imaging of the Brain

**Jacob Scott Thurston, BS***Medical College of Wisconsin***FUJIFILM Medical Systems/RSNA Research Medical Student Grant**

Cost-effective Analysis of Percutaneous Femoral Artery Access in Endovascular Aortic Repair

**Chidubem Godwin Ugwueze, MS***Medical College of Wisconsin***RSNA Research Medical Student Grant**

Cost-effective Analysis of Percutaneous Femoral Artery Access in Endovascular Aortic Repair

**Janis Yee, BA***University of Southern California***RSNA Research Medical Student Grant**

Time Intensity Curve Analysis of Contrast Enhanced Ultrasound in Renal Masses

**Jason Yoon, BA***Washington University in St. Louis***RSNA Research Medical Student Grant**

Next-generation Radioimmunotherapy: Characterizing Fully Human Monoclonal Anti-CD20 Antibodies Labeled with Zirconium-89

**Andrew Zureick, AB***Enrolled at University of Michigan Medical School, Research conducted at Massachusetts General Hospital***RSNA Research Medical Student Grant**

Quantitative MRI Analysis of Radiotherapy-induced Structural, Functional and Developmental Changes in the Brain: Potential Predictors of Adverse Neurocognitive Effects in Pediatric Brain Tumor Survivors

**EDUCATION SCHOLAR GRANT****Andres R. Ayoob, MD***University of Kentucky***Philips/RSNA Education Scholar Grant**

Development of a Web-based Curriculum to Prepare Diagnostic Radiology Residents During their Post-graduate Year 1 by Promoting Learning via Retrieval Practice and Spaced Repetition

**Indranil Mallick, MD, DNB***Tata Medical Center, Kolkata, India***GE Healthcare/RSNA Education Scholar Grant**

AVARO - Applied Virtual Anatomy for Radiation Oncology: Teaching Radiological Anatomy for Target Delineation and Image Guidance Using Interactive Online Tools for Large Audiences

**Andrew B. Rosenkrantz, MD***NYU Langone Medical Center***AUR/RSNA Education Scholar Grant**

Design of an Interactive, Case-Based Online Tutorial for Prostate MRI Interpretation Using PI-RADS

**Lonie R. Salkowski, MD***University of Wisconsin - Madison, School of Medicine and Public Health***RSNA Education Scholar Grant**

Investigation of a Radiology-based Three-dimensional Simulation to Explore Attributes of Novice and Expert Learners in their Process of Correlating and Sense-making of Medical Images with the Human Body

**Kofoworola O. Soyebi, MBChB***University of Lagos, Idi-Araba, Lagos, Nigeria***Derek Harwood-Nash Education Scholar Grant**

Capacity Building in Nigeria for Sickle Cell Disorder Related Stroke Prevention

**Marc H. Willis, DO***Baylor College of Medicine***GE Healthcare/RSNA Education Scholar Grant**

Technology Enhanced Learning: Medical Student Education Simulation Utilizing Clinical Decision Support (Teaching Medical Students to Select the 'Right Test' at the 'Right Time' for the 'Right Reason')

**Jie Zhang, PhD***University of Kentucky***RSNA Education Scholar Grant**

Curriculum Development for Hands-on Physics Education of Residents in Diagnostic Radiology