This year marks the 100th anniversary of RSNA’s founding. As radiology looks toward the future, one wonders what the next 100 years will look like for our specialty and whether the central role of radiologists in healthcare will be sustained.

As a global force in radiology, RSNA is poised to lead the specialty into the next century and exceed the incredible success of the past 100 years. The R&E Foundation will play a key role in radiology’s future by continuing its support of inspiring investigators and innovative educators.

The following pages describe the projects funded in 2015—92 grants in all—and introduce you to the outstanding researchers and educators behind them. The Foundation is proud to award grants to 25 percent of the applications received, but many promising projects remain unfunded.

Inspire-Innovate-Invest: The Campaign for Funding Radiology’s Future® seeks to raise $17.5 million to meet growing demand for grants in radiologic research and education, bridging the gaps in funding for promising investigators and educators. Imagine what the R&E Foundation could accomplish with the generosity of all our radiology colleagues.

Thank you for supporting the Foundation.

Sincerely,

Burton P. Drayer, MD
Chairman, R&E Foundation
Board of Trustees

Read full grant abstracts and see how R&E Foundation grant recipients are making a difference at RSNA.org/Grant_Search
GRANT DESCRIPTIONS

RESEARCH SCHOLAR GRANT
Our premier career development grant transitions junior faculty to independent investigators. Funding protects research time to conduct complex projects under the guidance of a mentor and scientific advisor in preparation for NIH funding. Two-year grant of $150,000.

RESEARCH SEED GRANT
Every great discovery starts with a spark. This grant provides seed money to test hypotheses and conduct pilot studies in preparation for major grant applications to corporations, foundations, and government agencies. One-year grant of up to $40,000.

RESEARCH RESIDENT/FELLOW GRANT
This grant provides investigators a chance to explore powerful ideas. Working alongside an experienced advisor, trainees gain insight into specific investigation and practice research methods and techniques; it is a catalyst to pursue research at a critical point in a radiologist’s career. One-year grant of $30,000/$50,000.

RESEARCH MEDICAL STUDENT GRANT
Exposure to radiology research in medical schools ignites a passion for the specialty. With support of the community and a network of mentors, a summer project can turn into a career-long pursuit of research and discovery. Grant of $3,000, matched by the sponsoring department.

EDUCATION SCHOLAR GRANT
Innovation in education can transform the way radiologists learn, understand, and care for patients. This grant encourages development of new methods of teaching and evaluation, and enables effective delivery for lifelong learning. One-year grant of up to $75,000.

RSNA/AUR/APDR/SCARD
RADIOLOGY EDUCATION RESEARCH DEVELOPMENT GRANT
This grant helps to build a critical mass of radiology education researchers and promotes the careers of those with passion to advance the science of radiology education around the world. One-year grant of up to $10,000.

RECOGNITION & THANKS
Through the generosity of our donors, the RSNA R&E Foundation is able to continue its investment in R&D for radiology.

The Foundation wants to provide special acknowledgment for the distinguished donors who have established endowments and awards in their names or in the names of those honored.

AUSTIN RADIOLOGICAL ASSOCIATION
Derek Harwood-Nash, MD
Martin R. Prince, MD, PhD
Ralph Schlaeger Charitable Foundation
RSNA Presidents Circle
Silver Anniversary Campaign Pacesetters

The Foundation is grateful for the major contributions through the Visionaries in Practice (VIP) program and from corporate donors through the Vanguard program.

AGFA HealthCare
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HOLOGIC
Mallinckrodt Pharmaceuticals
PHILIPS
SIEMENS
TOSHIBA
Leading Innovation
VARIAN Medical Systems
A partner for life

Where Do Your Donations Go?
Low overhead puts more of your donations toward grant funding

How Are Grant Dollars Distributed?
Percent of grant dollars awarded by grant type in 2015

- Education 17%
- Resident and Fellow Trainees 22%
- Medical Students 2%
- Seed and Pilot Studies 12%
- Junior Faculty and Career Development 47%
- Fundraising 6%
- Administration 4%
- Grant Programs 90%
Currently, whole breast screening ultrasound is the most common modality offered to supplement full field digital mammography (FFDM) in women with dense breasts, and has been shown to detect additional cancers not seen on FFDM. As digital breast tomosynthesis (DBT)—a newer, more sensitive technology—is replacing FFDM at many sites, Janice S. Sung, MD, will evaluate the supplemental cancer yield of whole breast screening ultrasound in women undergoing DBT.

Stephen R. Bowen, PhD
University of Washington
SIEMENS HEALTHCARE/RSNA RESEARCH SCHOLAR GRANT
Multimodality Quantitative Molecular Imaging for Personalized Radiation Therapy of Lung Cancer Through Differential Tumor Dose Escalation and Functional Lung Avoidance

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

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

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

Michael Iv, MD
Stanford University Medical Center
RSNA RESEARCH SCHOLAR GRANT
Using Ferumoxytol-enhanced MRI to Assess Tumor-associated Macrophages in Human Glioblastoma Multiforme

Kevin S. King, MD
University of Southern California
Keck School of Medicine
RSNA RESEARCH SCHOLAR GRANT
Association of Cerebrovascular Reactivity on BOLD fMRI with Structural Brain Insults and Cognitive Decline in a Community Based Cohort
Pejman Jabehdar Maralani, MD, FRCPC
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

Janice S. Sung, MD
Memorial Sloan Kettering Cancer Center
RSNA RESEARCH SCHOLAR GRANT
Clinical Utility of Whole Breast Screening Ultrasound in Patients Undergoing Digital Breast Tomosynthesis

Habib Rahbar, MD
University of Washington
RSNA RESEARCH SCHOLAR GRANT
Improving Treatment Outcomes of Ductal Carcinoma in Situ with Breast MRI

Atul Bhanudas Shinagare, MD
Brigham and Women’s Hospital
Harvard Medical School
RSNA RESEARCH SCHOLAR GRANT
Optimization of Chest CT Utilization in Patients with Advanced Ovarian Cancer

Pejman Jabehdar Maralani, MD, FRCPC (left), with scientific advisor David Mikulis, MD, FRCPC

Joseph Scott McNally, MD, PhD
University of Utah
BAYER HEALTHCARE/RSNA RESEARCH SCHOLAR GRANT
Role of the Angiotensin Pathway and Redox State in Carotid Plaque Permeability

Michael A. Ohlinger, MD, PhD
University of California, San Francisco
MALLINCKRODT/RSNA RESEARCH SCHOLAR GRANT
Noninvasive Monitoring of Liver Inflammation and Fibrosis Using Hyperpolarized Carbon-13 MRI

Robert M. Strigel, MD, MS
University of Wisconsin – Madison
GE HEALTHCARE/RSNA RESEARCH SCHOLAR GRANT
High Spatio-temporal Resolution Breast MRI: Improving the Characterization of Breast Cancer

Haris Iqbal Sair, MD
The Johns Hopkins University
CARESTREAM HEALTH/RSNA RESEARCH SCHOLAR GRANT
Intrinsic Language Network Assessed with Resting State Functional Magnetic Resonance Imaging: Potential Role in Presurgical Mapping

Leo L. Tsai, MD, PhD, MSc
Beth Israel Deaconess Medical Center
AGFA HEALTHCARE/RSNA RESEARCH SCHOLAR GRANT
Regional Variations in Tumor Metabolism and Proliferation Reflecting a Non-uniform Tumor Micro-environment: In Vivo Assessment with Hyperpolarized 13C MRI

Janice S. Sung, MD
Memorial Sloan Kettering Cancer Center
RSNA RESEARCH SCHOLAR GRANT
Clinical Utility of Whole Breast Screening Ultrasound in Patients Undergoing Digital Breast Tomosynthesis

Full abstracts available at RSNA.org/Grant_Search
Hooman Yarmohammadi, MD  
Memorial Sloan Kettering Cancer Center  
**RSNA RESEARCH SCHOLAR GRANT**  
Combined Blocking of Aerobic and Anaerobic Glycolytic Metabolism Pathways in Improving Treatment Response Following Transarterial Embolization of Hepatocellular Carcinoma

Stefan L. Zimmerman, MD  
The Johns Hopkins University School of Medicine  
**RSNA RESEARCH SCHOLAR GRANT**  
Dual Energy Extracellular Volume Mapping for Optimized Detection of Focal Myocardial Fibrosis with Cardiac Computed Tomography

Nasrin V. Ghesani, MBBS  
RUTGERS New Jersey Medical School  
**RSNA RESEARCH SEED GRANT**  
Novel Gallium Imaging in Hepatocellular Carcinoma

 Kelly L. Cox, DO  
Emory University  
**HITACHI MEDICAL SYSTEMS/RSNA RESEARCH SEED GRANT**  
MRI Liver Surface Nodularity Score as a New Noninvasive Biomarker for Chronic Viral Hepatitis

Matthew Scott Davenport, MD  
University of Michigan  
**RSNA RESEARCH SEED GRANT**  
A Phase IV Randomized Double-blinded Placebo-controlled Noninferiority Study of the Effect of Intravenous Low-osmolality Iodinated Contrast Material on Renal Function in Postoperative Adults with Stage IIIb or Stage IV Chronic Kidney Disease

Sarah Beth White, MD  
Medical College of Wisconsin  
**BRACCO DIAGNOSTICS INC./RSNA RESEARCH SCHOLAR GRANT**  
Magnetically Triggered Oxaliplatin Release for the Treatment of Colorectal Liver Metastasis

Shandong Wu, PhD, MSc  
University of Pittsburgh  
**GE HEALTHCARE/RSNA RESEARCH SCHOLAR GRANT**  
Breast DCE-MRI Contrast Enhancement Heterogeneity and Breast Cancer Risk

“*I am a radiologist and a nuclear medicine physician having done fellowships in both nuclear medicine and body MRI. My goal as an academic radiologist is to bridge the gap between radiology and nuclear medicine and I believe PET/MRI to be the perfect modality in which to do this.*”

Thomas A. Hope, MD, and his team are studying the ability of Ga-68 DOTA-TOC PET/MRI to predict early treatment response to Y-90 radioembolization in patients with bulky hepatic metastasis.
Daniel Thomas Ginat, MD, MS  
University of Chicago  
**TOSHIBA AMERICA MEDICAL SYSTEMS/RSNA RESEARCH SEED GRANT**  
MRI-guided Minimally Invasive Laser Ablation of Recurrent Head and Neck Squamous Cell Carcinoma with Clinicoradiological Correlation for Treatment Response

Bruce E. Lehnert, MD, MS  
University of Washington  
**RSNA RESEARCH SEED GRANT**  
Automatic Image Quality Evaluation for CT Protocol Guidance

Thomas A. Hope, MD  
University of California, San Francisco  
**PHILIPS HEALTHCARE/RSNA RESEARCH SEED GRANT**  
Interim Response to Y-90 Therapy of Neuroendocrine Tumor Using DOTA-TOC PET/MRI

Yingbing Wang, MD  
Massachusetts General Hospital  
**RSNA RESEARCH SEED GRANT**  
Multiparametric Imaging for Therapy Monitoring in Multiple Myeloma

Stephen J. Hunt, MD, PhD  
University of Pennsylvania  
**FUJIFILM MEDICAL SYSTEMS/RSNA RESEARCH SEED GRANT**  
Combining Antivascular Ultrasound and Immune Modulation for Systemic Control in Hepatocellular Carcinoma

Kristina Young, MD, PhD  
Providence Portland Medical Center  
**RSNA RESEARCH SEED GRANT**  
Targeting Cancer Associated Fibroblasts to Enhance Radiation Efficacy

Naveen Kalra, MBBS, MD  
Postgraduate Institute of Medical Education and Research, Chandigarh, India  
**RSNA RESEARCH SEED GRANT**  
Comparison of Virtual CT Enteroscopy with Small Bowel Enteroclysis in Patients with Suspected Small Bowel Tuberculosis

Viviane Khoury, MD  
University of Pennsylvania  
**PHILIPS HEALTHCARE/RSNA RESEARCH SEED GRANT**  
Ultrasound-guided Dry Needling Therapy for Tendinopathic Rat Supraspinatus Tendon: Histological and Mechanical Effects

Colin D. McKnight, MD, will use a novel MR spectroscopy technique to investigate the role of oxidative stress in the pathogenesis of Amyotrophic Lateral Sclerosis (ALS). It is expected that this work will provide a noninvasive biomarker which will improve ALS diagnosis and facilitate the development of new ALS treatments.
Waleed Brinjikji, MD
Mayo Clinic
BRACCO DIAGNOSTICS INC./RSNA RESEARCH RESIDENT GRANT
Comparison of Efficacy of Standard Neurovascular Coil to Dedicated Carotid Surface Coil in Evaluation of Vulnerable Carotid Plaque

Nicholas S. Burris, MD
University of California, San Francisco
RSNA RESEARCH FELLOW GRANT
Combined Evaluation of Hemodynamic and Inflammatory Markers in Chronic Type B Aortic Dissection Using PET/MRI

George A. Carberry, MD
University of Wisconsin - Madison
RSNA RESEARCH FELLOW GRANT
Treatment Algorithms to Ensure Safe, Effective Microwave Ablation of Lung Tumors Near the Heart

Aadel Chaudhuri, MD, PhD
Stanford University
RSNA RESEARCH RESIDENT GRANT
Analysis of Circulating Tumor DNA for Early Detection of Tumor Recurrence After Definitive Radiotherapy for Non-small Cell Lung Cancer

Robert Richard Flavell, MD, PhD
University of California, San Francisco
RSNA RESEARCH FELLOW GRANT
Study of Acidic Interstitial pH in Aggressive Prostate Cancer Using Novel PET and Hyperpolarized 13C Imaging Probes

Rahi Jiten Kumar, MD
University of California, San Francisco
RSNA RESEARCH RESIDENT GRANT
In Vitro and In Vivo Differentiation and Quantification of Novel Contrast Materials at Dual-energy CT

Kathryn Lowry, MD
Massachusetts General Hospital
PHILIPS HEALTHCARE/RSNA RESEARCH RESIDENT GRANT
Optimizing Breast Cancer Surveillance in Women with a Personal History of Breast Cancer

Atul Mallik, MD, PhD
University of Utah
PHILIPS HEALTHCARE/RSNA RESEARCH RESIDENT GRANT
Structural and Functional Imaging Driven Biomarkers for Visual Hallucinations and Dementia with Lewy Bodies

Colin D. McKnight, MD
University of Michigan
SILVER ANNIVERSARY CAMPAIGN PACESETTERS RESEARCH FELLOW GRANT
MR Imaging of Oxidative Stress in Amyotrophic Lateral Sclerosis

Matthew M. Miller, MD, PhD
Beth Israel Deaconess Medical Center
BRACCO DIAGNOSTICS INC./RSNA RESEARCH RESIDENT GRANT
Quantifying Intracellular and Extracellular pH Changes in Breast Tumors During Administration of pH Modulating Agents Using Chemical Exchange Saturation Transfer (CEST) Magnetic Resonance Imaging

Full abstracts available at RSNA.org/Grant_Search
Yvonne M. Mowery, MD, PhD
Duke University Medical Center
**RSNA Research Resident Grant**
Dissecting the Impact of Tumor Mutational Load and the CTLA-4 Immune Checkpoint in Mediating Response of Primary Sarcomas to Radiation Therapy

Philmo Oh, MD, PhD
New York University School of Medicine
**RSNA Research Resident Grant**
Enhanced Systemic Anti-tumor Immunity Through Combined Radiotherapy and Modification of the Tumor Micro-environment

Anthony Joseph Paravati, MD, MBA
University of California, San Diego
**Varian Medical Systems/RSNA Research Resident Grant**
Phase I Trial of Adaptive Stereotactic Body Radiotherapy (SBRT) Dose Escalation in Pancreatic Cancer

Rebecca Rakow-Penner, MD, PhD
University of California, San Diego
**RSNA Research Resident Grant**
Improved Quantitative Diffusion Magnetic Resonance Imaging of Breast Cancer Using Restriction Spectrum Imaging

Gelareh Sadigh, MD
Emory University School of Medicine
**RSNA Research Resident Grant**

Julie Sanders, MD
Northwestern University Feinberg School of Medicine
**Ralph Schlaeger Charitable Foundation Research Fellow Grant**
Multiparametric MRI Combining MR Elastography and 4D Flow MRI in the Diagnosis and Staging of Portal Hypertension and Liver Fibrosis

Tyler M. Seibert, MD, PhD
University of California, San Diego
**RSNA Research Resident Grant**
Mapping Cortical Vulnerability Associated with Brain Radiotherapy

Navneet Singh, MD
University of Toronto
**Toshiba America Medical Systems/RSNA Research Resident Grant**
Prospective Multicenter Imaging Clinical Trial, Quantitative Evaluation of 3D Carotid MR-imaged Intraluminal Subcutaneous Arterial Bypass Graft Using Percutaneous Methods; Feasibility Study in a Porcine Model

Jessica Kelly Stewart, MD
Duke University Hospital
**RSNA Research Resident Grant**
Creation of an Extraluminal Subcutaneous Arterial Bypass Graft Using Percutaneous Methods: Feasibility Study in a Porcine Model

Chad Tang, MD, MS
The University of Texas MD Anderson Cancer Center
**Siemens Healthcare/RSNA Research Resident Grant**
Investigation of the Immunologic Basis of CT Imaging Features in Non-small Cell Lung Cancer

Full abstracts available at RSNA.org/Grant_Search
Elizabeth Tong, MD  
University of Virginia  
**RSNA RESEARCH RESIDENT GRANT**  
Design and Validate a Model that Uses Collaterals as Imaging Biomarkers to Predict Clinical Outcomes in Acute Ischemic Stroke

Joseph Connell Wildenberg, MD, PhD  
Hospital of the University of Pennsylvania  
**COOK MEDICAL CESARE GIANTURCO/RSNA RESEARCH RESIDENT GRANT**  
Magnetic Resonance Guidance and Monitoring of Percutaneous Electrochemical Ablation Using a Novel Coaxial Probe Device

Fang Yu, MD  
The University of Texas Health Science Center in San Antonio  
**RSNA PRESIDENTS CIRCLE RESEARCH RESIDENT GRANT**  
Evaluation of Multiple Sclerosis with Myelin-specific MRI

Sunjay M. Barton, BA  
Columbia University College of Physicians and Surgeons  
**RSNA RESEARCH MEDICAL STUDENT GRANT**  
Characterizing the Effects of High Dose Radiation on the Neuroblastoma Tumor Micro-environment

Akshaar N. Brahmbhatt, BA  
New Jersey Medical School  
**RSNA RESEARCH MEDICAL STUDENT GRANT**  
The Expression of IEX-1 in Peripheral Artery Disease and its Role in Protective Revascularization

Randall Brenneman, PhD  
University of Miami Miller School of Medicine  
**RSNA RESEARCH MEDICAL STUDENT GRANT**  
Radiotherapy-induced Tumor Targeting of Oligonucleotide Aptamer-conjugated Immunostimulatory Monoclonal Antibodies

Randy O. Chang, BS  
University of California, Los Angeles  
**RSNA RESEARCH MEDICAL STUDENT GRANT**  
MRI Surveillance of Induced Pluripotent Stem Cells for Stroke Using Gadolinium Nanoparticles

Re-I Chin, BA  
Saint Louis University School of Medicine  
**RSNA RESEARCH MEDICAL STUDENT GRANT**  
Correlation and Prognostic Significance of Pre-treatment PET and MRI Parameters on 18F-FDG-PET/MR in Cervical Cancer

Jose Lopez, BS, will investigate the role of an image-rich radiology report in the current busy clinical environment by determining the unmet needs, interest, and preferences of both the referring physicians who will use the reports and the radiologist who will create them, with the goal of improving operational efficiencies.

Full abstracts available at RSNA.org/Grant_Search
Alex Chung, BA  
Emory University School of Medicine  
**RSNA RESEARCH MEDICAL STUDENT GRANT**  
An Analysis of Wrong-patient Errors in Radiology and Distraction Effects of Adding Photographs to Radiographs

Yoon-Jin Kim, BA  
Emory University School of Medicine  
**RSNA RESEARCH MEDICAL STUDENT GRANT**  
Comparison of Three View 2D Digital Mammography to Digital Breast Tomosynthesis

Daniel K. Cook, BS  
Wake Forest School of Medicine  
**RSNA RESEARCH MEDICAL STUDENT GRANT**  
Associations Between Whole Brain Network Connectivity and Cognitive Function in African Americans with Type-2 Diabetes Mellitus: A Resting-state Functional MRI Graph Theoretical Analysis

James R. Knitter, BS  
The University of Arizona College of Medicine  
**RSNA RESEARCH MEDICAL STUDENT GRANT**  
Response Assessment of Cerebral Metastases After High-dose Stereotactic Radiation: Using Combined Diffusion and Perfusion MR Imaging

John Tuje Ikhena, BA, MPH  
Duke University School of Medicine  
**RSNA RESEARCH MEDICAL STUDENT GRANT**  
Prognostic Performance in Mild Cognitive Impairment (MCI) of Two Commercially-available Hippocampal Volumetry Tools

Michelle Irmgard Knopp, BA  
The Ohio State University  
**RSNA RESEARCH MEDICAL STUDENT GRANT**  
PET Imaging Using Low and Ultra-low Dose Techniques in Clinical Care and Research

Eric J. Keller, BA, BS  
Northwestern University Feinberg School of Medicine  
**RSNA RESEARCH MEDICAL STUDENT GRANT**  
Finding a Common Ethical Language for Healthcare: the Case of Symptomatic Uterine Fibroids

Andrew Kuei, BS  
University of California, Los Angeles  
**CANON U.S.A./RSNA RESEARCH MEDICAL STUDENT GRANT**  
Inpatient Cost and Mortality Assessment of Transjugular Intrahepatic Portosystemic Shunt (TIPS) in the United States from 1998 to 2012

Allison Khoo, BS  
The University of Texas MD Anderson Cancer Center  
**RSNA RESEARCH MEDICAL STUDENT GRANT**  
The Biological Mechanism of Tumor Radiosensitization by Conjugated Gold Nanoparticles

Janesh Lakhoo, BS  
University of Illinois College of Medicine at Chicago  
**RSNA RESEARCH MEDICAL STUDENT GRANT**  
Ablative Liver Partition and Portal Vein Embolization (ALP-PVE): Proof of Concept Testing in a Rabbit Model

Janesh Lakhoo, BS (right), with scientific advisor and past R&E grant recipient, Ron C. Gaba, MD
Milan Manchandia, BS
Massachusetts General Hospital
Harvard Medical School
**RSNA RESEARCH MEDICAL STUDENT GRANT**
Dynamic Perfusion and Diffusion-weighted MRI to
Quantitatively Differentiate Between Treatment-
related Changes and Tumor Recurrence in Patients
with High-grade Gliomas

Tamari Andre Miller, BA
University of Chicago
**RSNA RESEARCH MEDICAL STUDENT GRANT**
Using MRI to Predict Clinical Outcomes in Patients
with Locoregionally Advanced Human Papilloma
Positive (HPV+) Oropharyngeal Squamous Cell
Carcinoma Treated with Nab-Paclitaxel

Jose Lopez, BS
Duke University School of Medicine
**FUJIFILM MEDICAL SYSTEMS/RSNA RESEARCH MEDICAL STUDENT GRANT**
Use of Magnetic Resonance Spectroscopy in the Radiogenomic Evaluation of Childhood Neuroblastoma
“We will use unique 3-D simulation devices to explore the process of how novices and experts assimilate medical imaging and their ability to correlate this information with the anatomy of the human body and physical examination. The goal is to provide new approaches to curriculum development based on knowledge of trajectories mapped for the acquisition of skills from novice to expert, and learners with different types of medical training as they relate to medical imaging and its application to clinical cases and patient care.”

-Lonie R. Salkowski, MD

Emmanuel J. Botzolakis, MD, PhD
Hospital of the University of Pennsylvania
RSNA EDUCATION SCHOLAR GRANT
Development of a Novel Radiology Teaching Interface Using Bayesian Networks: Application to Neuroradiology as Proof of Concept

Christopher E. Comstock, MD
Memorial Sloan Kettering Cancer Center
GE HEALTHCARE/RSNA EDUCATION SCHOLAR GRANT
Interactive Screening Mammography Teaching Set: An Effective Tool to Improve Performance?

David B. Larson, MD, MBA
Stanford University
RSNA EDUCATION SCHOLAR GRANT
The Radiology Improvement Team Education Program

Shaunagh McDermott, FFR RCSI
Massachusetts General Hospital
PHILIPS HEALTHCARE/RSNA EDUCATION SCHOLAR GRANT
Online Educational Tool for Implementation and Interpretation of Low-dose CT for Lung Cancer Screening (Ed-LSC)

Anders Persson, MD, PhD
Linköping University, Sweden
DEREK HARWOOD-NASH EDUCATION SCHOLAR GRANT
RadSim: Simulation Based Training Program for CT Protocol, Iterative Reconstruction and Dual Energy Applications

Bhavya Rehani, MD
University of California, San Francisco
GE HEALTHCARE/RSNA EDUCATION SCHOLAR GRANT
Developing Web-based Virtual Classroom Teaching RISE (Radiology International Student Virtual Education) Platform: A Pilot International Outreach Educational Program

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

Jie Zhang, PhD
University of Kentucky
RSNA EDUCATION SCHOLAR GRANT
Curriculum Development for Hands-on Physics Education of Residents in Diagnostic Radiology
Melissa McCutcheon Picard, MD
Medical University of South Carolina
RSNA/AUR/APDR/SCARD
RADIOLOGY EDUCATION RESEARCH DEVELOPMENT GRANT
Long-term Evaluation of a Comprehensive Curriculum Involving Didactic and Simulation Based Methods of Teaching Residents the Identification and Management of Adverse Contrast Reactions

Justin Cramer, MD
University of Utah
RSNA/AUR/APDR/SCARD
RADIOLOGY EDUCATION RESEARCH DEVELOPMENT GRANT

Osamu Kaneko, MD; Michael Muelly, MD; and Jason Oppenheimer, MD
Stanford University Hospital and Clinics
RSNA/AUR/APDR/SCARD
RADIOLOGY EDUCATION RESEARCH DEVELOPMENT GRANT
Imaging Top 10: An Engaging and Interactive Radiology Simulation App for the Medical Student

Jay Acharya, MD
New York Medical College, Westchester Medical Center
Melkamu Adeb, MD
Bridgeport Hospital
Alan Alexander, MD
Aultman Hospital
Ryan Alexander, DO
Mount Sinai Medical Center
Sayf Al-katib, MD
Beaumont Health System
Atabak Allaei, MD
SUNY Downstate Medical Center UHB
Scott Atkins, MD
Loma Linda University Medical Center
Avelis Azizyan, MD
Cedars-Sinai Medical Center
Amanjit S. Baadhi, MD
Winthrop-University Hospital
Manisha Bahl, MD, MPH
Duke University School of Medicine
Jason Daehn Balkman, MD
Dartmouth Hitchcock Medical Center
Zachary E. Ballenger, MD
Indiana University
Sukhjeet S. Bath, MD, MS
University of Southern California
Arash Bedayat, MD
University of Massachusetts Medical School
Puneet Belani, MD
RUTGERS Robert Wood Johnson Medical School
Garrett M. Bennett, MD
Ochsner Clinic Foundation
Asha Bhatt, MD
Rochester General Hospital
Drexel H. Boggs, MD
University of Maryland Medical Center
SohHyun Boo, MD
West Virginia University
Bruce P. Bordlee Jr, MD
Tulane University School of Medicine

Ji Y. Buethe, MD
University Hospitals Case Medical Center
Ashley R. Cahoone, MD
The University of Texas Medical School at Houston
Todd J. Carpenter, MD
Icahn School of Medicine at Mount Sinai
Tyson S. Chadaz, MD
University of Rochester Medical Center
Yatin Chahda, MD
Queen’s University
Megan Chang, MD
University of Arkansas for Medical Sciences
Peter Chang, MD
Columbia University Medical Center
Stephanie Tzu-Ying Chang, MD
Stanford University
Ammar A. Chaudhry, MD
Stony Brook University Hospital
Umar S. Chaudhry, MBBS
The University of Iowa Hospitals and Clinics
Jaron Chong, MD
McGill University
Gagandeep Choudhary, MD
University of Arizona
Stephen Chun, MD
The University of Texas Southwestern Medical Center
Arthur S. Chung, MD
Loma Linda University Medical Center
Ziga Cizman, MD
University of North Carolina at Chapel Hill
Amir H. Davarpanahfakhr, MD
Yale University School of Medicine
Bennett L. Davis, MD
National Naval Medical Center
Andrew J. Degnan, MD, MPhil
Naval Medical Center Portsmouth
Joyce M. Lee, MD
University of Pittsburgh Medical Center
Jorge A. Lee Diaz, MD
The University of Texas Medical Branch at Galveston

ROENTGEN RESIDENT/FELLOW RESEARCH AWARD

The Foundation recognizes residents and fellows who have made significant contributions to radiologic research over the past year, as evidenced by presentations of scientific papers at regional or national meetings; publication of scientific papers in peer-reviewed journals; receipt of a research grant, and other activities that led to the success of a research program within the department.
Mary Wood Huff, MD  
Eastern Virginia Medical School

Katrina S. Hughes, MD  
Texas Children's Hospital, Baylor College of Medicine

Ichiro Ikuta, MD, MMSc  
Norwalk Hospital

Jana Ivanidze, MD, PhD  
NewYork-Presbyterian Hospital, Weill Cornell Medical College

Lida Jafari, MD  
VA Greater Los Angeles Healthcare System

Sameer Jhavar, MD, PhD  
Baylor Scott & White Hospital

Stephen L. Jones, MD  
Texas A&M HSCCOM/Scott & White Healthcare

Shravan Kandula, MD  
Emory University

Robert A. Kaufman, MD  
Southern Illinois University School of Medicine

Tatiana Kelil, MD  
Brigham and Women's Hospital

Sameer Jhavar, MD, PhD  
Baylor Scott & White Hospital

Edward M. Mannina Jr., MD, MPH, MS  
The University of Texas Southwestern Medical Center

Samuel Brandon Hancock, MD  
The University of Oklahoma Health Sciences Center

Jason Hearn, MD  
Cleveland Clinic

Susan M. Hiniker, MD  
Stanford University

Jonah S. Hirschbein, MD  
University of California, Davis

Fritz Hofmann, MD  
Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán

Emma B. Holliday, MD  
The University of Texas MD Anderson Cancer Center

Behrang Homayoon, MD  
University of British Columbia

Cash Jeremy Horn, MD  
Loma School of Medicine at Mount Sinai

Erin M. Horsley, DO  
Hahnemann University Hospital

Ryne A. Didier, MD  
Oregon Health & Science University

Shane Dieckman, DO  
San Antonio Uniformed Services Health Education Consortium

Marshall Dines, MD  
Harbor-UCLA Medical Center

Michael Dominello, DO  
Wayne State University

Bryan Donald, MD  
University of Minnesota

David B. Douglas, MD  
Stanford University

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