The RSNA Research & Education Foundation Announces 2013 Grant Recipients

The RSNA Research & Education Foundation funded 83 grant projects totaling over $3 million, setting new records for the second consecutive year and the highest in the Foundation’s history. 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**

**Joseph Erlinger, M.D., Ph.D.**
Memorial Sloan-Kettering Cancer Center
Development of a Prognostic, Imaging-inclusive Model for Improved Prediction of Disease-free Survival in Patients with Renal Cell Carcinoma

**Michael Zeineh, M.D., Ph.D.**
Brigham and Women’s Hospital
National Institutes of Health PET/CT-derived Hepatopulmonary Shunt Quantification of Diffuse Myocardial Iron Overexpression in Patients with Transfusion-dependent Anemias

**Ellen Brian Levy, M.D.**
National Institutes of Health MRI-Guided Vertebral Cryoablation in a Porcine Model with Structural and Thermographic Monitoring

**Ashkan Akhavan Maleyeri, M.D.**
Johns Hopkins University Application of a Novel High Resolution 3D MRI Sequence (SPACE) for Evaluation of Left Atrial Ectasia and Morphology in Pulmonary vein Isolation

**John Nicholas Morell, M.D.**
Johns Hopkins University MRI-guided Ventral Cryoablation in a Porcine Model with Structural and Thermographic Monitoring

**Bashir Akhavan Tajii, M.D.**
University of California, Los Angeles Inversable Electroporation (IRE)-mediated Ablation of Breast Cancer

**Yingbing Wang, M.D.**
Massachusetts General Hospital Validation of Molecular Imaging with 18F Sodium Fluoride PET and 18F FDG PET for Monitoring of Response to Therapy in Multiple Myelomas

**Christoph Alexander Karle, M.D.**
Memorial Sloan-Kettering Cancer Center Development of a Prognostic, Imaging-inclusive Model for Improved Prediction of Disease-free Survival in Patients with Renal Cell Carcinoma

**Ralph Schlaeger Charitable Foundation**

**Joseph Edward Ippolito, M.D., Ph.D.**
Washington University in St. Louis Molecular Imaging of the Neuroendocrine Cancer (SABAT Shunt)

**Jane-Goo Lee, Ph.D.**
University of Pittsburgh Assessing the Progression of Kidney Graft by Hitachi Inspire the Next

**Elliot Brian Levy, M.D.**
National Institutes of Health Integrated Imaging Strategy to Phenotype Recurrence after Chemomodulation

**Toshiaki Yamashita, M.D.**
National Institutes of Health Molecular Imaging of Neovascularization with Octyl Fluoride PET and Radiography in Patients with Renal Cell Carcinoma

**Karen S. Lee, M.D.**
Northwestern University Ablative Radiotherapy (IG-SABR) in 11C-Choline PET/CT Image-Guided Stereotactic Ablation of Breast Cancer

**David C. Fine, M.D.**
Stanford University Medical Center A Slow-offrate Modified Aptamer (SOMAmer)-Based Approach to Visualize A Slow-offrate Modified Aptamer (SOMAmer)-Based Approach to Visualize Neovascularization with Octyl Fluoride PET and Radiography in Patients with Renal Cell Carcinoma

**Daniel S. Chen, M.D.**
Columbia University Medical Center Comparison of Optical Imaging and Diffusion/ Perfusion-weighted Magnetic Resonance Imaging during Acute Stroke to Improve Clinical Image Interpretation and Diagnosis Moving

**Sarah Beth White, M.D.**
Northwestern University NanoPhotothermal Ablation for Cerebral Liver Metastases

**Kathleen F. Reilly, M.D.**
Fenbush School of Medicine NanoPhotothermal Ablation for Cerebral Liver Metastases

**Sarah Beth White, M.D.**
Northwestern University NanoPhotothermal Ablation for Cerebral Liver Metastases

**Kathleen F. Reilly, M.D.**
Fenbush School of Medicine NanoPhotothermal Ablation for Cerebral Liver Metastases

**Kevin M. Maloney, M.D.**
Washington University in St. Louis Characterization of Nerve Radiomarkers Identified in a BIologent Glubiosomes—Neuron Interaction Screen

**Tom C. Goo Lee, M.D.**
Wexner Medical Center The Ohio State University PET/CT-derived Hepatopulmonary Shunt Fraction Following Yttrium-90 Radioembolization

**Karen Bush, M.D.**
Boston Medical Center A Minidelayed Pressure Sensor Small Prototype for Continuous, Wireless Portal Vein Pressure Monitoring

**Philippe Monnet, M.D., Ph.D.**
Columbia University Medical Center Non-invasive Detection of Surgical Margins with Cerenkov Luminescence Imaging in Head and Neck Cancer

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RADIOLOGY’S FUTURE

Annie Y. Lee, M.D.
University of Washington
Utilization Patterns and Consequences of Breast MRI BI-RADS Assessments and Management Recommendations in Community Practice

Christopher D. Malmes, M.D.
University of California San Diego
Ultrasound Detection of Hydrogen Peroxide and its Validation with F-T MR Imaging

Zachary S. Morris, M.D., Ph.D.
University of Washington
Synergy of Radiation and Immunotherapy in the Treatment of Melanoma

Evan Charles Osmundson, M.D., Ph.D.
Stanford University
Crafting Drugs as Biomarker for Pancreatic Adenocarcinoma after Primary Local Therapies

Bradford Alan Perez, M.D.
Duke University School of Medicine
Evaluating the CXCR4 Signaling Pathway in Mediation of Response to Radiation Therapy

Rahul Anil Seth, M.D.
Massachusetts General Hospital
Harvard Medical School
Translational Optical Molecular Imaging for Peribronchial Tumor of Focal Hepatic Lesions

Corey W. Spers, M.D., Ph.D.
University of Michigan
Development of Radiotracers for Targets of the Management of Treatment Refractory Breast Cancer

Daniel E. Spratt, M.D.
Memorial Sloan-Kettering Cancer Center
Non-invasive Molecular Imaging to Monitor Androgen Receptor Activity in Prostate Cancer Post Radiation Therapy

Vinita Takar, M.D., Ph.D.
The University of Texas, M.D. Anderson Cancer Center
Using Combinatorial Adaptive Response Therapy (CART) to increase the Therapeutic Efficacy of Radiation Therapy

Amenda June Walter, M.D.
Johns Hopkins University
Investigation of PD-1 Blockade and Hypofractionated Radiation in Lung Cancer to Enhance the Abscopal Effect

Kristina Yang, M.D., Ph.D.
Oregon Health & Science University
Targeted Alteration of the Tumor Immune Environment to Enhance the Chemoimmunotherapy in Rectal Cancer

RESEARCH MEDICAL STUDENT GRANT

Medha Ahmad, B.A., B.S.
The University of Texas MD Anderson Cancer Center
Do Biodentine Receptable Pancreatic Cancer Patients Treated With Non-adjuvant Chemoradiotherapy Benefit From Radiation Dose Escalation to High Risk Margins?

Nabil U. Ali, B.S.
Massachusetts General Hospital
An Automated Computational Algorithm for Detection of the Naps-Angle Sign: A Coronary High-risk Plaque Marker in CT Angiography

Samuel F. Bahnson, Ph.D.
Gaels School of Medicine at Dartmouth
Examination the Consequences of Radiation induced Errors in Chromosome Segregation in Dividing Cells

Lauren Colbert, B.A.
Emory University
DNA Damage Response Genes as Biomarkers for Germline Sensitivity in Pancreatic Cancer

Dania Daye, B.S.
Perelman School of Medicine at the University of Pennsylvania
Investigating the Role of L-(S-HC) Glutamine as a Novel PET Tracer for Breast Cancer Prognostication

Matthew DeSilva, B.S.
Massachusetts General Hospital
Altered Structural Connectivity and Network Organization in Unilateral Molar Temporal Lobe Epilepsy

Jeffrey Dinh, B.S.
The University of Texas MD Anderson Cancer Center
Synaptic and Gliastromal Metamorphosis of Radiation Induced Cognitive Impairment

Alex El-Ali, B.S.
Columbia University College of Physicians and Surgeons
Development of Quantitative In Vivo Neuroimaging Biomarkers as Clinical Outcome Measures in Childhood Acute Ileostomy

Preeya Goyal, B.A.
Northwestern University
Feinberg School of Medicine
Assessment of Chronic Liver Disease and Liver Fibrosis: Comparison of MR Elastography and Acoustical Radiation Force Impulse Imaging

Althea Hirnemuth, B.S.
University of Maryland School of Medicine
Patient Perceptions of Participation in RSNA Image Sharing Project: A Preliminary Survey

Julian C. Hong, M.S.
Stanford University
Julian is enrolled at The University of Wisconsin School of Medicine and Public Health
Optimal Operating Parameters for Fluorinational High-energy Agile Scanning Electron Radiation Therapy (FARxERe)

Matthew Janoski, B.S.
University of Massachusetts Medical School
Evaluation of Topical Immunomodulatory Therapy on Interleukin-1-independent Radioimmunotherapeutics Using Multiple Imaging Modalities

Brice Allen Kessler, B.S.
University of North Carolina School of Medicine
PET/MRI for the Evaluation of Lymphoma

Ashley Knight-Greenfield, B.A.
Inah School of Medicine at Mount Sinai
Hepatic Flow Quantification With 4D Phase Contrast MRI: Correlation With Hepatic Venous Pressure Gradient Measurement

Kevin Katamarti, B.S.
The University of Texas MD Anderson Cancer Center
Nanoshells for Detection and Ablation of Post-surgical Tumor Margins

Jennifer Laferty, B.A.
Medical College of Wisconsin
Cost and Minimality Analysis of Chest Port Insertion: Interventional Radiation vs. Surgical Implantation

Ashley Minghsun Lee, B.S.
Massachusetts General Hospital
Ultrasound is enrolled at Duke University School of Medicine
Wave of Resistant Myocardial CT Pursuit for Management of Patients with Acute Chest Pain and Intermediate Risk for Acute Coronary Syndrome

PHILIPS

Aron D. Losery, M.D.
University of California, San Francisco
A New Minigraft Guided Endovascular Catheter for Interventional MR: Evaluation of Navigation in Vivo at 1.5T

Holly Nichols, B.S.
Duke University
Development of a CT-based Novel Calcium Scanning System of the Lower Extremity Arterial System for Prediction of Outcomes of Endovascular Therapies for Peripheral Arterial Disease

Kalvin Yang, Ph.D.
Cleveland Clinic Lerner College of Medicine
Case Western Reserve University
Radiosensitization of Glioblastoma Stem Cells by Targeting High-affinity Glucose Uptake

Radium Don Pullman, M.D.
Northwestern University
Multiparametric MRI Biomarker Predictive of Early Treatment Outcome in Recurrent GBM

Paulo A. Vazes, Ph.D.
Gaels School of Medicine at Dartmouth
Multimetric MRI Biomarker Predictive of Early Treatment Outcome in Recurrent Glioma

Margarite Jane Wang, B.S., M.Eng.
University of California, San Francisco
Color Enhanced Four-material Decomposition of Complementary Contrasts Delivered Simultaneously at Dual-energy CT

PHILIPS

Saurabh Jha, M.D.
University of Pennsylvania
Radiosensitivity Test Assessment for Radiology Residents – A curriculum to understand the economics of imaging and how to value a diagnostic test

PHILIPS

Seth Leach, M.D.
Northwestern University
Early Treatment Outcome in Recurrent GBM

Fujifilm

Ahmad Parniaian, B.S.
University of Illinois at Chicago
Pharmacology and Imaging of the Antiradical Chemoembolization in a Rabbit VX2 Tumor Model

Fawzia Shafiy, B.A.
Columbia University College of Physicians and Surgeons
Using Contrast Enhanced Ultrasound to Assess the Efficacy of Anti Inflammation as a Radiosensitizer in Experimental Neuroblastoma

DEADLINES FOR 2014 GRANT APPLICATIONS

The application process for 2013 R&E Foundation grants opens this month.
Deadlines are:
• January 15, Education Grants
• January 15, Research Grants
• February 1, Research Medical Student Grant

Posters outlining R&E Foundation research and education grant programs, as well as programs for which international RSNA members are eligible, will be mailed this month to chairs and are available for download at RSNA.org/Grants and Awards.
Posters will also be available at RSNA 2013 in the R&E Foundation Pavilion in RNA Services. Learn more about applying for R&E grants at RSNA.org/Foundation.

Priscilla Sloanis, M.D., M.P.H. and
Ronald L. Eisinger, M.D., J.D.
Beth Israel Deaconess Medical Center
Development of a Prior Observation Teaching Program to Enhance Radiation Resident Teaching Skills

Rathan M. Subramaniam, M.D., Ph.D.
Johns Hopkins University
Curriculum Development for Hybrid Molecular Imaging and Evidence Based Clinical Practice

Carolyn Wang, M.D.
University of Washington
Evidence Based Development of a High-Fidelity Simulation Training Package for Contrast Reaction Management

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