

# Trainee Research Prizes from the 2011 RSNA Scientific Assembly and Annual Meeting

In 1994, the RSNA Program Committee, chaired by William M. Thompson, MD, began a program to recognize the contribution of residents to the RSNA Annual Meeting: the Research Trainee Prize. The Research Trainee prize was expanded in 1999 to include fellows and in 2004 to include medical students; in 2005, it was renamed the Trainee Research Prize. Each subcommittee of the Program Committee may award three prizes each year: one prize for the best paper or scientific poster submitted by a resident or physics trainee, one prize for the best paper or poster submitted by a fellow, and one prize for the best paper or poster submitted by a medical student. The following award-winning papers and scientific posters were accepted for presentation at the 2011 RSNA Annual Meeting. Judgment is based on the scientific content of the paper or poster as presented in an extended abstract. The Trainee Research Prize consists of \$1000 and a certificate indicating the name of the trainee and the title of the paper or poster, both of which are given to the individual trainee.

The 2011 Trainee Research Prizes were presented to the following fellows:

**Min Sun Bae**

Seoul National University Hospital  
Seoul, Korea  
Recipient of the Dr Tapan K. Chaudhuri  
Trainee Research Prize  
*Clinicopathologic Characteristics  
of Breast Cancers Detected by  
Screening Ultrasound*  
Breast, paper SSA01-04

**Brad M. Keller, PhD**

University of Pennsylvania  
Philadelphia, Pa  
*Identification of Genetic Determinants  
for Fibroglandular Breast Tissue  
Volume: Associations between Image-*

*based and Genomic Biomarkers of  
Breast Cancer*

Breast, paper SSK01-07

**Evrin B. Turkbey, MD**

National Institutes of Health/Clinical  
Center Radiology and Imaging Sciences  
Washington, DC

*Relationship of Cardiovascular Risk  
Factors to Left Ventricular Structure  
and Function in type 1 Diabetes  
Mellitus: Results from the Diabetes  
Control and Complications  
Trial/Epidemiology of Diabetes  
Interventions and Complications  
(DCCT/EDIC) Study*

Cardiac, paper MSVA51-05

**Marc R. Dweck, BSC, MBChB**

University of Edinburgh  
Edinburgh, Scotland  
*Active Aortic Valve Calcification and  
Inflammation in Patients with Aortic  
Stenosis: A PET/CT Study*  
Cardiac, paper MSVM31-05

**Maxime Hackx, MD**

Hopital Erasme  
Brussels, Belgium  
*Airways Dimensions and Variability  
at CT in COPD Patients: Effect of  
Bronchodilation*  
Chest, paper SSA04-06

**Andrew J. Swift, BMedSc, FRCR**

University of Sheffield  
Sheffield, England  
*Pulmonary Artery Relative Area  
Change Using CINE MRI Independently  
Predicts Mortality in Patients with  
Suspected Pulmonary Hypertension*  
Chest, paper MSVC51-12

**Mukta D. Agrawal, MBBS, MD**

Weill Cornell Medical College  
New York, NY  
*Three-dimensional Spiral Dynamic Liver  
MRI Reconstructed with 3-second  
Temporal Update: Preliminary*

Published online  
10.1148/radiol.11114041

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*Results in 25 Patients Using Gadoxetate Disodium*

Gastrointestinal, paper SSJ06-03

**Celia P. Corona-Villalobos, MD**

Johns Hopkins University School of Medicine

Baltimore, Md

*Safety and Efficacy of Portal Vein Embolization with and without Intraarterial Therapy—inducing Necrosis: Impact on Future Liver Remnant*  
Gastrointestinal, paper SSG04-03

**Matthew S. Davenport, MD**

University of Michigan Health System  
Ann Arbor, Mich

*Do Contrast Warmers Matter? Effect of Extrinsic Warming of Low Osmolality Iodinated Contrast Material to 37°C on the Rate of Extravasations and Allergic-like Reactions*  
Genitourinary, paper SSJ10-01

**Baris I. Turkbey, MD**

Molecular Imaging Program, National Cancer Institute, National Institutes of Health  
Washington, DC

*Can Multiparametric MRI Stratify Prostate Cancer Patients Who Are Eligible for Active Surveillance?*  
Genitourinary, paper SSC06-01

**Jay K. Pahade, MD**

Beth Israel Deaconess Medical Center  
Boston, Mass

*Reviewing Imaging Examination Results Immediately after Study Completion with a Radiologist: Patient Preferences and Assessment of Feasibility*  
Health Services Policy & Research, paper SSG06-06

**Jason N. Itri, MD, PHD**

University of Pennsylvania Hospital  
Cherry Hill, NJ

*Reducing the Impact of Fatigue on Resident Major Discrepancy Rate by Shortening Overnight Call Shift Length*  
Radiology Informatics, paper SSG07-07

**Supriya Gupta, MBBS**

Massachusetts General Hospital  
Boston, Mass

*Should We Stop at Red: A Comprehensive Analysis of Examinations with Low Utility Score on Decision Support System*  
Radiology Informatics, paper SSK09-06

**Pedram Heidari, MD**

Massachusetts General Hospital  
Boston, Mass

*Multitracer Imaging Using <sup>68</sup>Ga-DOTATOC and <sup>18</sup>F-FLT to Optimize Octreotide Dose and Monitor Response in Somatostatin Receptor Expressing Tumors*  
Molecular Imaging, paper SSC09-04

**Shadpour Demehri, MD**

Brigham and Women's Hospital  
Boston, Mass

*MRI-based Volumetric Quantification of Supraspinatus as a Predictor for Conservative Management Outcome: A Retrospective Study in Patients with Partial-Thickness Supraspinatus Tendon Tear*  
Musculoskeletal, paper SSQ10-01

**Emiko Morimoto, MD**

Kyoto University Graduate School of Medicine  
Kyoto, Japan

*Anterior Temporal Lobe White Matter Abnormal Signal (ATLAS) as an Indicator for Laterality of Epileptogenic Focus in Temporal Lobe Epilepsy: A Comparison among Double Inversion-recovery, FLAIR, and T2WI at 3 T*  
Neuroradiology/Head & Neck, poster LL-NRS-WE2A

**Mahmoudreza Fardanesh, MD**

University of Maryland Medical Center  
Baltimore, Md

*Evaluation of the Impact of Major Dose Reduction for Quantitative Brain Perfusion Studies Using A Low Dose Simulation Algorithm*  
Neuroradiology/Head & Neck, paper SSJ18-06

**Wolfram Stiller, PhD, Dipl Phys**

University Hospital Heidelberg  
Heidelberg, Germany

*A Theoretical Model for Calculating MDCT Beam-shaping Filter Geometry: Comparison of Calculated Attenuation Profile and Monte Carlo Simulated*

*Transmission Spectra to Measurements*  
Physics, paper SSA20-06

**Feng Zhang, MD, PhD**

University of Washington School of Medicine  
Seattle, Wash

*Development of an Intrabiliary MRI-monitored Local Agent Delivery Technique*  
Vascular and Interventional, paper SSQ18-01

The 2011 Trainee Research Prizes were presented to the following medical students:

**Kathryn Lowry, BS**

Massachusetts General Hospital  
Institute for Technology Assessment  
Boston, Mass

*Effectiveness and Cost-effectiveness of a Lung Cancer Screening Program in Patients with Chronic Obstructive Pulmonary Disease*  
Chest, paper SSQ02-01

**Hyungjoo Ham**

University of Ottawa  
Ottawa, Ontario, Canada

*Negative Predictive Value of Intravenous Contrast-enhanced CT of the Abdomen and Pelvis for Patients Presenting to the Emergency Department with Undifferentiated Upper Abdominal Pain*  
Emergency Radiology, poster LL-ERS-MO3B

**Pearlene P. Lee**

University of Maryland Medical Center  
Baltimore, Md

*AIM and RadLex for Musculoskeletal Diagnostic Decision Support: Navigating 3 T MR Anatomy and Disease of the Brachial Plexus*  
Radiology Informatics, paper SSA11-04

**Long-Hua Qiu**

Fudan University  
Shanghai, China

*Molecular Imaging of Angiogenesis to Delineate the Tumor Margin in Glioma Rat Model with Endoglin-targeted Paramagnetic Liposomes Using 3.0 T Magnetic Resonance Imaging*  
Molecular Imaging, poster LL-MIS-TU5A

**Sasan Partovi, BS**

University Hospital of Basel  
Basel, Switzerland

*Blood Oxygenation Level-dependent Magnetic Resonance Imaging of the Skeletal Muscle in Patients with Systemic Sclerosis and Comparison of Key Parameters with Healthy Volunteers*  
Musculoskeletal Radiology, paper SSA14-06

**Matthew Maeder, MD**

University of Cincinnati  
Cincinnati, Ohio

*Spectrum and Incidence of Rotator Cuff Tears in Pediatric Patients at a Large Tertiary Care Hospital*  
Pediatric Radiology, paper SSQ14-03

**Jason Chiang, BS**

University of Wisconsin–Madison  
Madison, Wis

*Creating a More Spherical Tumor Ablation Zone through Microwave Antenna Optimization*  
Radiation Oncology & Radiobiology, paper MSRO32-08

**Scott M. Thompson, BA**

Mayo Clinic  
Rochester, Minn

*Development of a Translational Cirrhotic Rat Hepatocellular Carcinoma Model for Multimodal Imaging and Interventional Oncologic Investigations*  
Vascular and Interventional, paper MSVO41-14

The 2011 Trainee Research Prizes were presented to the following residents and physics trainees:

**Cathy Wells, MD, PhD**

Beth Israel Deaconess Medical Center  
Boston, Mass

*Does Mismatch in Breast and Detector Size during Screening and Diagnostic Mammography Result in Increased Radiation Dose?*  
Breast, paper SSK01-01

**Antonio Moscariello, MD**

Medical University of South Carolina  
Charleston, SC

*Coronary CT Angiography versus Conventional Catheter Angiography for Guiding Therapeutic Decision-*

*making in Patients with High Likelihood of Coronary Artery Disease*  
Cardiac, paper MSVA51-04

**Guy E. Johnson, MD**

University of Washington  
Seattle, Wash

*Early Acute Pulmonary Embolism Following Trauma*  
Emergency Radiology, paper MSVE21-12

**Ounali Jaffer, MBBS, MRCP**

King's College Hospital  
London, England

*Acoustic Radiation Force Impulse (ARFI) Imaging Is Able to Identify Early Fibrosis in Viral Hepatitis: Preliminary Results in 83 Patients Compared with Aspartate Transaminase to Platelet Ratio Index (APRI) and Simultaneous Liver Biopsy*  
Gastrointestinal Radiology, paper SSQ03-03

**Flavie Bratan, MD**

Hopital Edouard Herriot, Service de Radiologie Urinaire Vasculaire  
Lyon, France

*Detection and Localization of Prostate Cancers Using Multiparametric Magnetic Resonance Imaging*  
Genitourinary Radiology, paper SSC06-05

**Debbie L. Bennett, MD**

Massachusetts General Hospital  
Boston, Mass

*Diagnostic Yield of Delayed Image Acquisition in CT Angiography of the Head and Neck*  
Health Services Policy & Research, paper SSM11-03

**Joseph G. Mammarrappallil, MD, PhD**

Wake Forest University Baptist Medical Center  
Winston-Salem, NC

*How Accurate Is the Label "Allergic to Contrast"?*  
Health Services Policy & Research, poster LL-HSS-SU4B

**Joshua D. Dowell, MD, PhD**

Northwestern University  
Chicago, Ill

*Plectin-1 Targeted Liposomes for Possible Early Detection and Treatment of Pancreatic Adenocarcinoma*  
Molecular Imaging, paper SSQ09-05

**Reinhard Meier, MD**

Technische University Munchen  
Munich, Germany

*Therapy Monitoring of Synovitis in the Hands of Patients with Rheumatoid Arthritis with Optical Imaging in Comparison to MRI: Initial Results*  
Musculoskeletal Radiology, paper SSM12-01

**Frederik L. Giesel, MD, PhD**

University Hospital of Heidelberg  
Heidelberg, Germany

*Monitoring of Perfusion Changes after Systemic versus Selective Arterial <sup>177</sup>Lu/<sup>90</sup>Y-DOTATOC and <sup>213</sup>Bi-DOTATOC Radiopeptide Therapy Using Contrast-enhanced Ultrasound in Liver Metastatic Neuroendocrine Cancer*  
Nuclear Medicine, paper SST13-02

**Clemens Kratochwil I**

University of Heidelberg  
Heidelberg, Germany

*Regional <sup>213</sup>Bi-DOTATOC Peptide Receptor Alpha-therapy in Patients with Neuroendocrine Liver Metastases Refractory to Beta Radiation*  
Nuclear Medicine, paper SST13-02

**Michael Y. Im, MD**

New York University  
New York, NY

*Assessment of Thalamic Injury Using Structural and Functional MRI in Mild Traumatic Brain Injury*  
Neuroradiology/Head & Neck, paper SSA15-02

**Pierluigi Ciet, MD**

Erasmus MC  
Rotterdam, the Netherlands

*Comparison of Chest-MRI to Chest-CT to Monitor Cystic Fibrosis (CF) Lung Disease*  
Pediatric Radiology, paper MSVP32-02

**Lindsay Mathew, BSc**

Robarts Research Institute  
London, Ontario, Canada

*Hyperpolarized Helium-3 Magnetic Resonance Imaging of Emphysema and*

*Airway Function for Radiation Therapy Guidance in Non-Small Cell Lung Cancer*  
Physics, poster LL-PHS-TH2B

**Chirag Shah, MD**

William Beaumont Hospital  
Troy, Mich

*Implementation of a Breast Cancer-related Lymphedema Management Program*  
Radiation Oncology & Radiobiology,  
paper SSA22-05

**Anna M. Harris, MD**

University of Texas Health Sciences  
Center at San Antonio  
San Antonio, Tex

*Assessing Radiographic and Pathologic Control (PC) in Hepatocellular Carcinoma (HCC) Lesions Following Stereotactic Body Radiation therapy (SBRT) in Liver Transplant Candidates*  
Radiation Oncology & Radiobiology,  
paper MSRO32-07

**Chester Chong, MBBCh, MRCS**

Singapore General Hospital  
Singapore

*Multidetector Row CT Angiography (MDCTA) versus Digital Subtraction Angiography (DSA) for Detection and Localization of Acute Gastrointestinal Bleed*

Vascular and Interventional, paper  
MSVI51-07