RSNA Fast Approaching

The RSNA Scientific Assembly and Annual Meeting will take place from December 1-6 at McCormick Place Convention Center in Chicago. Nearly 55,000 medical and science professionals from around the globe are expected to attend, making it the world’s largest medical meeting, featuring hundreds of scientific papers, posters, education exhibits, and refresher courses. Once again, the Department of Radiology at the University of Chicago will provide many scientific and educational contributions to the meeting, and we encourage you to attend and view the presentations and exhibits listed in this newsletter.

Also, please join us on Monday, December 2nd from 6:00-8:00pm for the annual Hodges Society Alumni Reception, which will be held at Tesori restaurant (formerly Rhapsody) at 65 East Adams Street in Chicago; cocktails and hors d’oeuvres will be served.

While there, we encourage you to update your contact information with us, and to support this year’s winners of the Hodges Excellence Award and Hodges Research Grants.

Paul C. Hodges Annual Research Award

The Hodges Society Annual Research Award provides grants for selected individuals with promising research proposals. This year, two investigators were chosen to receive funding:

Michael Veronesi, M.D., Ph.D.
Title: In vivo localization of magnetic nanoparticles following intranasal administration using MRI
Advisor: Michael Vannier, M.D., Professor of Radiology at the University of Chicago
Collaborators: Bakhtiar Yamini, M.D. Associate Professor of Neurosurgery at the University of Chicago

Neville Eclov, B.S.
Title: Development of a Silicon-Photomultiplier-based PET Imaging System for use in Image-guided Small-animal Irradiators
Advisors: Chien-Min Kao, Ph.D., Charles Pelizzari, Ph.D.
See one, do one, teach one may not be the best way to begin administering a new imaging screening exam. On-line training and simulation isn’t common in CT, but a new interactive service provides training for CT technologists in CT colonography. Such training, when available, has involved repeated radiologist-technologist interaction in a large number of patients over a prolonged period of time. Drs. Abraham Dachman and Michael Vannier developed a software simulation training tool that can be used to simulate the decision points encountered by the technologist when performing a CT colonography (CTC or virtual colonoscopy) procedure including both usual and unusual scenarios that are known to occur.

With an educational grant from the RSNA, Drs. Dachman and Vannier mentored former University of Chicago Summer Research Program student Ademola Obajuluwa and research assistant Farid Dahi, MD (now a radiology resident at the University of Minnesota) to develop a stand-alone prototype using Adobe Captivate™ and virtual simulator using National Instruments LabView™ software. The product was tested on CT technologists and the results were presented in 2011 at the International Symposium on Integrating Research, Education and Problem Solving (IREPS).

With an unrestricted educational grant from Bracco Diagnostics, Drs. Dachman and Vannier began working with the University of Chicago IT Services to create a training web site that can be used remotely by new CT technologists who wish to undergo training. Accreditation of the web training is anticipated for Category A Continuing Education credit from the American Society of Radiologic Technologists (ASRT) pending their review of the entire system. The website can be found at http://VCTraining.uchicago.edu. We hope that the training tool will generate interest from CT manufacturers and companies with interest in virtual colonoscopy. And we’ve striven to avoid the problems that plague the healthcare.gov website!

**Join Us on LinkedIn!**

We have recently started a Paul C. Hodges Alumni Society group on LinkedIn.

The University of Chicago Hodges Alumni Society

Please join us!

Hey Alums - We want to hear from YOU! Do you have any accomplishments or achievements that you would like to share?

E-mail Mandy at mvelligan@radiology.bsd.uchicago.edu and give us an update that we can share in our next newsletter!
Maryellen Giger Named Editor-in-Chief of New SPIE Journal—Journal of Medical Imaging

In early 2014, SPIE, the international society for optics and photonics, will launch the Journal of Medical Imaging with **Maryellen Giger, PhD**, as Editor-in-chief. The SPIE reports that the scope of the journal will initially “mirror that of the annual SPIE Medical Imaging symposium. Topics will include imaging physics, tomographic reconstruction algorithms (such as those in CT and MRI), image processing, computer-aided diagnosis, visualization and modeling, image perception and observer performance, technology assessment, ultrasonic imaging, image-guided procedures and digital pathology.” "The new journal gives the field of medical imaging, which continues to be more and more interdisciplinary, a home for scientific presentation, discussion, review and archiving," said Dr. Maryellen Giger, A.N. Pritzker Professor of Radiology/Medical Physics at the University of Chicago.

The journal began accepting submissions on October 1st. For more information, please read on:

SPIE Press Release – Journal of Medical Imaging will launch in 2014

UChicago Cancer Conversations – Maryellen Giger, PhD, Named Editor-in-Chief of New Journal

Grand Rounds Recap

The Paul C. Hodges Alumni Society co-sponsored its first Grand Rounds lecture on October 22, 2013. **Dr. Ruth Carlos**, from the University of Michigan presented on the Affordable Care Act and Implications for Imaging Coverage. The lecture was highly attended by faculty, residents and local alums. A reception was held afterwards for all.
We are pleased to announce that Dr. Karin Dill, Assistant Professor of Radiology and Medicine and Co-Director of Cardiac MRI and CT, has been appointed to the Cardiac Subcommittee of RSNA’s Scientific Program Committee. During this three-year appointment, Dr. Dill will be part of the team that is “responsible for reviewing and selecting all scientific papers in Cardiac Radiology proffered for the Annual Meeting [and] the organization of special symposia.”

We are also pleased to announce that Dr. David Paushter, Professor and Chairman of the Department of Radiology, has been appointed as Chair of the Multisystem/Special Interest Subcommittee of RSNA’s Education Exhibits Committee. During this three-year appointment, Dr. Paushter will lead the team that is “responsible for reviewing and selecting all education exhibits in Multisystem/Special Interest proffered for the Annual Meeting.”

Congratulations to Drs. Dill and Paushter for this recognition of their valuable contributions to and leadership in radiology education.

The ABR would like to acknowledge Dr. Karen Dill for her service as an oral board examiner and for serving as an Anghoff committee member for new core board exam.

The newly appointed A.N. Pritzker Professor, Maryellen Giger, PhD, presented a lecture titled Medical Imaging and Computers in the Diagnosis of Breast Cancer” on November 20, 2013 for the Named Lecture Series here at the University of Chicago.

Dr. Daniel Ginat received his MD from New York University School of Medicine in 2005. He served as an intern in general surgery at the Lenox Hill Hospital and then completed a residency in diagnostic radiology at the University of Rochester Medical Center. He served as a fellow in neuroradiology at the Massachusetts General Hospital for two-years, completing his training on June 30, 2013. Dr. Ginat joined our section of neuroradiology August 22, 2013, and has assumed a leadership role in head and neck imaging.
SPECIAL COURSES

Saturday, November 30, 2013 01:00-05:00 PM
NIH Grantsmanship Workshop
SPGW01 | E253AB | Gayle E Woloschak PhD

SPGW01D | Clinical Trials in Applications. Michael W Vannier MD

Sunday, December 1, 2013 10:45-12:15 PM
Oncodiagnosis Panel: Pediatric Sarcoma (An Interactive Session)
SPOI11 | E353C | Nina A Mayr MD, John Breneman MD, Gregory S Stacy MD, Lynn Million MD, Raffi S Avedian MD

Monday, December 2, 2013 04:30-06:00 PM
RSNA Diagnosis Live™: Chest and Abdomen
SPDL21 | E450A | Paul J Chang MD, Neety Panu MD, FRCPC, Gregory L Katzman MD

Tuesday, December 3, 2013 07:15-08:15 AM
Controversy Session: Fibroid Therapy: UAE vs Focused US
SPSC30 | E350 | Brian S Funaki MD, James B Spies MD, Alan H Matsumoto MD

Wednesday, December 4, 2013 04:30-06:00 PM
RSNA Diagnosis Live™: Neuroradiology and Musculoskeletal Radiology
SPDL41 | E451A | Paul J Chang MD, Neety Panu MD, FRCPC, Gregory L Katzman MD

Thursday, December 5, 2013 03:00-04:00 PM
RSNA Diagnosis Live™: Radiology Potpourri
SPDL51 | E450A | Paul J Chang MD, Neety Panu MD, FRCPC, Gregory L Katzman MD

REFRESHER / INFORMATICS

Sunday, December 1, 2013 02:00-03:30 PM

Monday, December 2, 2013 08:30-10:00 AM
Interactive Game: A Case-based Audience Participation Session (Genitourinary)
RC207 | E353A | Paul J Chang MD, Evis Sala MD, PhD, Mitchell E Tublin MD

Monday, December 2, 2013 02:30-04:00 PM
3-D Printing: Bridging the Gap between Theory and Practice ICII23 | S501ABC | Frank J Rybicki MD, PhD

02:30 PM-03:00 PM | ICII23A | 3D CT and MR Acquisitions. Karin E Dill MD
U of C Radiology at RSNA

Tuesday, December 3, 2013 | 04:30-06:00 PM
Next Generation Infrastructure for Medical Imaging (In Association with the Society for Imaging Informatics in Medicine)
RC426 | S404CD | Paul J Chang MD

04:30 PM-05:00 PM | RC426A | Interoperability and Integration-from HL7, DICOM, IHE, to SOA. Paul J Chang MD

Thursday, December 5, 2013 08:30-10:00 AM
Medical Physics 2.0: Ultrasonography
RC621 | S102C | Ehsan Samei PhD, Douglas E Pfeiffer MS

09:00 AM-09:30 AM | RC621B | Ultrasonography 1.0 | Zheng Feng Lu PhD

Thursday, December 5, 2013 | 08:30-10:00 AM
Gastrointestinal: CT Colonography Update (An Interactive Session)
RC609 | E353C

09:00 AM-09:30 AM | RC609B CT Colonography: Interpretation Workflow. Abraham H Dachman MD

Thursday, December 5, 2013 04:30-06:00 PM
Interactive Game: Interventional
RC714 | E353A | Steven M Zangan MD, Brian S Funaki MD, Rakesh C Navuluri MD

Thursday, December 5, 2013 04:30-06:00 PM
MR Imaging-guided Breast Biopsy (Hands-on Workshop)
RC750 | E260 | Amy D Argus MD, Mary C Mahoney MD, Laura B Shepardson MD, Carol H Lee MD, Simone Schrading MD, Jiyon Lee MD, Roberta M Strigel MD, MS, Sandra Brennan MBCh, MSc, Tanya W Stephens MD, Virginia M Molleran MD, Lilian Wang MD, Colleen H Neal MD, Amanda Ingram MD, Vilert A Loving MD, Kirtil M Kulkarni MD, Andrew Bouman MD, PhD, Stephen J Seiler MD, Hal D Kipfer MD, Susan O Holley MD, PhD

Friday, December 6, 2013 08:30-10:00 AM
Techniques for Quantitative Cancer Imaging: Current Status
RC818 | S404CD

09:00 AM-09:30 AM | RC818B | Magnetic Resonance Imaging | Gregory S Karczmar PhD

SCIENTIFIC PAPERS

Sunday, December 1, 2013 | 10:45-12:15 PM
ISP: Informatics (Education and Research)
SSA11 | S403A | Gary H Danton MD, PhD, Ayis T Pyrros MD

10:50 AM-11:00 AM | SSA11-02 | An Anonymized Radiological Database with Open-source Search Engine and Image Request System for Biomedical Researchers. Michael D Torno DSc, Nicholas P Gruszauskas PhD, Roger Engelmann MS, Adam Starkey, Paul J Chang MD, Samuel G Armato PhD
Sunday, December 1, 2013 10:45-12:15 PM
Gastrointestinal (Rectal Carcinoma Imaging)
SSA07 | E450A | Michael E Zalis MD, Marc J Gollub MD, ByungIhn Choi MD, PhD

11:20 AM-11:30 AM | SSA07-05 | Magnetic Resonance Imaging of Tumor Initiation and Progression, and Response to Vitamin D in a Mouse Model of Colitis and Colitis-associated Colon Cancer. Devkumar Mustafi PhD, Urszula Dougherty MS, Erica Markiewicz BA, Xiaobing Fan PhD, Marc Bissonnette MD, Gregory S Karczmar PhD

Sunday, December 1, 2013 10:45-12:15 PM
Physics (CAD I)
SSA19 | S403B | Heang-Ping Chan PhD | Kyongtae T Bae MD, PhD

11:25 AM-11:35 AM | SSA19-05 | Computer-aided Diagnosis (CADx) as a Surrogate Measure of Image Quality: Dependence of CADx Performance on Reconstruction Parameters in Dedicated Breast CT. Ingrid Reiser PhD | Robert M Nishikawa PhD | John M Boone PhD | Karen K Lindfors MD | Kai Yang PhD

Sunday, December 1, 2013 10:45-12:15 PM
Physics (Low-dose CT Imaging)
SSA20 | S404AB | Willi A Kalender PhD, John M Boone PhD

12:05 PM-12:15 PM | SSA20-09 | Evaluation of TV-minimization-based Reconstruction for Low-dose Dedicated Breast CT. Junguo Bian PhD, Kai Yang PhD, Xiao Han MSc, Karen K Lindfors MD, Erik A Pearson BS, BEng, Emil Y Sidky PhD, John M Boone PhD, Xiaochuan Pan PhD

Monday, December 2, 2013 10:30-12:00 PM
Physics (MRI Techniques I)
SSC14 | S403B | Gregory S Karczmar PhD, Xiaohong J Zhou PhD

Monday, December 2, 2013 10:30-12:00 PM
France Presents 2013
SSC17 | E353C | Nicolas Grenier MD

SSC17-06 | Closing Remarks. Richard L Baron MD, Jean-Pierre Pruvo MD, PhD, Nicolas Grenier MD

Tuesday, December 3, 2013 03:00-04:00 PM
Chest (Digital Imaging)
SSJ06 | S404CD | Heber MacMahon MD, Sudhakar N Pipavath MD

Tuesday, December 3, 2013 03:00-04:00 PM
Physics (Non-Conventional CT Imaging)
SSJ23 | S403B | Jeffrey H Siewerdsen PhD | Stephen Rudin PhD

03:40 PM-03:50 PM | SSJ23-05 | Artifact-suppressed, Low-dose C-arm CBCT Imaging of Low-contrast Cerebral Lesions. Xiao Han MSc, Satoru Oishi PhD, Tetsu Satow MD, Hiromichi Yokoyama RT, Masanobu Yamada RT, Michael D Silver PhD, Ya-Bing Chang, Emil Y Sidky PhD, Xiaochuan Pan PhD
Tuesday, December 3, 2013 03:00-04:00 PM
Physics (MRI Techniques II)
SSJ24 | S404AB | Geoffrey D Clarke PhD, Dennis L Parker PhD

03:50 PM-04:00 PM | SSJ24-06 Evaluation of Short Term Reproducibility of Apparent Diffusion Coefficients for Diffusion-weighted Imaging of the Prostate. Meredith Sadinski BA, Milica Medved PhD, Ibrahim Karademir MD, Yahui Peng PhD, Gregory S Karczmar PhD, Aytekin Oto MD, Yulei Jiang PhD, Steffen Sammet MD, PhD, Shiyang Wang PhD

Wednesday, December 4, 2013 10:30-12:00 PM
Gastrointestinal (CT Colonography)
SSK05 | E351 | Abraham H Dachman MD, Perry J Pickhardt MD, Judy Yee MD

Wednesday, December 4, 2013 10:30-12:00 PM
Genitourinary (Prostate Cancer: Multimodality Diagnosis and Staging of Disease)
SSK08 | E353C | Steven C Eberhardt MD, Antonio C Westphalen MD

11:40 AM-11:50 AM SSK08-08 | Dynamic Contrast Enhanced MR Imaging Features of the Normal Central Zone of the Prostate. Barry G Hansford MD, Ibrahim Karademir MD, Yahui Peng PhD, Yulei Jiang PhD, Gregory S Karczmar PhD, Stephen Thomas MD, Ambereen Youssuf MBBS, Tatjana Antic, Scott Eggener, Aytekin Oto MD

Wednesday, December 4, 2013 03:00-04:00 PM
Breast Imaging (MRI Lesion Characterization)
SSM01 | Arie Crown Theater | Christiane K Kuhl MD, Janice S Sung MD

03:40 PM-03:50 PM SSM01-05 | Invasive Breast Cancer MRI Phenotype and Receptor Status as Predictors of Clinical Outcome. Kirti M Kulkarni MD, Kirsten Gaarder MD, Lingyun Xiong MD, Hiroyuki Abe MD, Maryellen L Giger PhD, Gillian M Newstead MD, Charlene A Sennett MD, Akiko Shimauchi MD, David V Schacht MD

03:50 PM-04:00 PM SSM01-06 | MR Imaging Phenotype of Breast Cancer: Kinetic Assessment for Molecular Subtypes. Eric M Blaschke MD, Hiroyuki Abe MD

Thursday, December 5, 2013 10:30-12:00 PM
Breast Imaging (Ultrasound Screening)
SSQ01 | Arie Crown Theater | Ellen B Mendelson MD, Paula B Gordon MD

10:50 AM-11:00 AM SSQ01-03 | Impact of Radiologists’ Professional and Practice Characteristics on Breast Cancer Detection in Women with Dense Breasts; A Reader Study Combining Mammography and Automated Breast Ultrasound. Karen Drukker PhD, Maryellen L Giger PhD

Thursday, December 5, 2013 10:30-12:00 PM
Breast Imaging (CAD/Quantitative Imaging)
SSQ02 | E450A | Despina Kontos PhD, Jennifer A Harvey MD, Christopher E Comstock MD

10:40 AM-10:50 AM SSQ02-02 | Computerized Characterization of Mass and Non-mass-Like Lesions on Breast MRI. Hui Li PhD, Maryellen L Giger PhD, Li Lan, Sunny Y Duan, Stephan Hu, Gillian M Newstead MD, Hiroyuki Abe MD, Michelle Lindgren MD
10:50 AM-11:00 AM | SSQ02-03 | Use of Quantitative 3D Breast Image Analysis to Inform DCIS Staging. Stephanie M Burda, Maryellen L Giger PhD, Li Lan, Kathy Rodogiannis, Hui Li PhD, Gillian M Newstead MD, Ken Yamaguchi, Koichi Ishiyama MD, Hiroyuki Abe MD, Michelle Lindgren MD, Adam Starkey

11:20 AM-11:30 AM | SSQ02-06 | Quantitative MRI-based Phenotypes of Triple Negative Breast Cancers. Hui Li PhD, Maryellen L Giger PhD, Li Lan, Hiroyuki Abe MD, Michelle Lindgren MD, Eric M Blaschke MD, Gillian M Newstead MD

Thursday, December 5, 2013 10:30-12:00 PM
Physics (CT Reconstruction)
SSQ20 | S404AB | Xiaochuan Pan PhD, Bruno De Man PhD

11:30 AM-11:40 AM SSQ20-07 | Optimization-based Image Reconstruction with Variable Resolution in Diagnostic CT. Zheng Zhang MA, BS, Junguo Bian PhD, Xiao Han MSc, Daxin Shi PhD, Alexander Zamyatin PhD, Emil Y Sidky PhD, Xiaochuan Pan PhD

Thursday, December 5, 2013 10:30-12:00 PM
ISP: Informatics (Results and Reporting)
SSQ11 | S403A | Scott Leroy Duvall PhD, Gary H Danton MD, PhD

11:50 AM-12:00 PM SSQ11-09 | Radiologic Measurement Dictation and Transcription Error Rates in RECIST (Response Evaluation Criteria In Solid Tumors) Clinical Trials: A Limitation of the Radiology Narrative Report to Accurately Communicate Quantitative Data. Merlijn Sevenster PhD, Paul J Chang MD, Jeffrey Bozeman BA, Andrea Couchy BS, Joost Peters, Manish Sharma MD, Adam R Travis MD, Will Trost BA, Lauren Wall MS

Friday, December 6, 2013 10:30-12:00 PM
Cardiac (Coronary CT/MR V)
SST02 | S502AB | Karin E Dill MD, Robert R Edelman MD

SCIENTIFIC POSTERS

EMERGENCY RADIOLOGY
Sunday, December 1, 2013 12:30-01:00 PM
LL-ERS-SUA | Lakeside Learning Center | Savvas Nicolaou MD


PHYSICS
Tuesday, December 3, 2013 | 12:15-12:45 PM
LL-PHS-TUA | Lakeside Learning Center Gregory S Karczmar PhD, Xiaohong J Zhou PhD

LL-PHS-TU3A | Pre-processing within a Breast MRI CADx System for the Initial Separation of Mass and Non-mass-like Lesions Prior to Computer Characterization. Hui Li PhD, Maryellen L Giger PhD, Li Lan, Sunny Duan, Stephan Hu, Gillian M Newstead MD, Hiroyuki Abe MD, Michelle Lindgren MD
U of C Radiology at RSNA

BREAST
Tuesday, December 3, 2013 | 12:45-01:15 PM
LL-BRS-TUB | Lakeside Learning Center


PHYSICS
Wednesday, December 4, 2013 | 12:15-12:45 PM
LL-PHS-WEA | Lakeside Learning Center | Samuel G Armato PhD, Bruce R Whiting PhD

LL-PHS-WE3A | Iterative Image Reconstruction for Low-dose Dedicated Breast CT. JnguoBian PhD | Kai Yang PhD | Xiao Han MSc | Emil Y Sidky PhD | John M Boone PhD | Xiaochuan Pan PhD

PHYSICS
Thursday, December 3, 2013 | 12:15-12:45 PM
LL-PHS-THA | Lakeside Learning Center | Alexander Zamytain PhD

LL-PHS-TH4A | Classification of HiSS-Imaged Breast Lesions Using DISPersion vs. Absorption (DISPA) Plots to Quantify Water Resonance Distortions. William Weiss BS, Milica Medved PhD, Gregory S Karczmar PhD, Maryellen L Giger PhD

LL-PHS-TH7A | Evaluation of Improved Cone-beam CT Image Quality by Optimization-based Reconstruction Algorithms. Xiao Han MSc, Erik A Pearson BS, BEng, JunguoBian PhD, Emil Y Sidky PhD, Charles A Pelizzari PhD, Xiaochuan Pan PhD

SERIES COURSES
Tuesday, December 3, 2013 08:30-12:00 PM
Radiology Informatics Series: Natural Language Processing: Extracting Information from Text Radiology Reports to Improve Quality
VSIN31 | S502AB | Curtis P Langlotz MD, PhD

VSIN31-02 | Enhancing Provided Patient Clinical Information by Automated Review of Prior Radiology Reports Using the Clinical Context Indicator (CCI): A NLP Based Data Extraction and Presentation PACS-integrated Tool. Adam R Travis MD, Paul J Chang MD, Yuechen Qian, Merlijn Sevenster PhD, Gabriel Mankovich BSC, Johannes Buurman PhD
Tuesday, December 3, 2013 08:30-12:00 PM
Interventional Radiology Series: Venous Disease
VSIR31 | E351 | Scott O Trerotola MD
VSIR31-06 | Debate - When Should We Be Placing Permanent Filters? John A Kaufman MD, Steven M Zangan MD
VSIR31-07 | Filter Follow-Up - PQI, Steven M Zangan MD

Thursday, December 5, 2013 08:30-12:00 PM
Chest Series: Hot Topics in Chest Imaging: Emerging Technologies and Clinical Applications
VSC1H51 | E351 | Jonathan G Goldin MBChB, PhD, Jens Bremerich MD
VSC1H51-14 | Innovations in Chest Radiography, Heber MacMahon MD

Thursday, December 5, 2013 08:30-12:00 PM
Interventional Radiology Series: Non-Vascular Interventions
VSIR51 | E352 | Peter R Mueller MD, Jonathan M Lorenz MD
VSIR51-09 | Debate - Emergent Abscess Drainage - Can It Wait Until Morning? Ronald S Arellano MD, Jonathan M Lorenz MD
VSIR51-11 | Controversies in Non-Vascular Interventions II, Jonathan M Lorenz MD

Thursday, December 5, 2013 08:30-12:00 PM
Vascular Imaging Series: CT Angiography-New Techniques and Their Application
VSVA511 | S502AB | Dominik Fleischmann MD
VSVA51-14 | Post Processing, Workflow and Interpretation, Karin E Dill MD

Friday, December 6, 2013 08:30-12:00 PM
Interventional Radiology Series: Top 5 Complications in Interventional Oncology - Avoidance, Recognition and Management
VSIR61 | E451A | Charles E Ray MD, PhD
VSIR61-11 | Combination Therapy Cxs Thuong G Van Ha MD

QUALITY STORYBOARDS

Thursday, December 5, 2013
12:15 PM-12:45 PM, LL-QSE1054-THA | Improving Patient Satisfaction Results: The University of Chicago Medicine Radiology Department Journey. Monica Geyer MBA, David M Paushter MD, Kate A Feinstein MD, Paul Mosebach MBA, ARRT, Brian Tymkiw ARRT, BS, Rosalie R Hughes, Alberto Jimenez

EXHIBITS

LL-BRE1142 | Quantitative Multi-modality Image-based Phenotyping to Facilitate Imaging Genomics in Breast Cancer Discovery. Maryellen L Giger PhD, Hui Li PhD, Karen Drukker PhD, Li Lan, Hiroyuki Abe MD, Gillian M Newstead MD, Charlene A Sennett MD

LL-GIE1235 | Multi-modality Imaging of Small Bowel Neoplasms. Lingyun Xiong MD, Lance J Luka MD, Eric M Blaschke MD, Arunas Gasparitis, Abraham H Dachman MD, Aytekin Oto MD, Stephen Thomas MD

LL-INE4618 | Abras 2: A Rapid Application Development Environment for Prototyping and Deploying Quantitative Imaging Software and Observer Study Interfaces. Adam Starkey, William F Sensakovic PhD, Samuel G Armato PhD.

LL-MKE2167 | Hypercalcemia: Pathophysiology and Differential Considerations from a Musculoskeletal Imaging Perspective. Neel B Patel MD, Gregory S Stacy MD

LL-MSE2685 | Name That Syndrome: A Quiz-based Approach to the Various Abdominal Manifestations of Ten Clinical Syndromes. Deepa Sheth MD, Aytekin Oto MD

LL-NRE4406 | Neurodermatoradiology. Daniel T Ginat MD, Charles J Schatz MD, Min Deng, Arlene Ruiz de Luzuriaga

LL-NRE4407 | Radiological Features of Chemobrain. Daniel T Ginat MD, William A Mehan MD, MBA, Pamela W Schaefer MD

LL-NRE4451 | Temporal Bone Trauma: Imaging Findings, Pitfalls, and Clinical Implications. Daniel T Ginat MD, Alicia Quesnel, Gul Moonis MD

LL-URE2342 | Rising Serum PSA in Patients with Treated Prostate Cancer: Role of MRI in Detecting the Cancer. Aytekin Oto MD, Lance J Luka MD, Ambereen Yousuf MBBS, Lingyun Xiong MD, Piotr R Obara MD, Stanley L Liauw MD