

## Best Scientific Paper Presentations

### Abdominal and Gastrointestinal (Abdominal Viscera)

**Use of CT texture analysis as a predictive biomarker of response to neoadjuvant FOLFIRINOX chemotherapy and chemoRT in pancreatic ductal adenocarcinoma (B-0016)**

K.S. Burk, M. Patino, R. Canellas, M.J. Patel, D.V. Sahani; *Boston, MA/US*

### Abdominal and Gastrointestinal (GI Tract)

**T2-weighted signal intensity to predict complete and good response after neoadjuvant chemoradiation therapy in patients with rectal cancer (B-0850)**

R.A.P. Dijkhoff; *Maastricht/NL*

### Breast

**Risk-based strategies for supplemental breast cancer screening (B-1604)**

D.L. Miglioretti<sup>1</sup>, B. Sprague<sup>2</sup>, C. Gard<sup>3</sup>, G. Rauscher<sup>4</sup>, J. Tice<sup>5</sup>, K. Kerlikowske<sup>5</sup>; <sup>1</sup>*Davis, CA/US*, <sup>2</sup>*Burlington, VT/US*, <sup>3</sup>*Las Cruces, NM/US*, <sup>4</sup>*Chicago, IL/US*, <sup>5</sup>*San Francisco, CA/US*

### Cardiac

**Napkin-ring plaques can be identified on coronary CT angiography images using radiomic analysis (B-0754)**

M. Kolossvary<sup>1</sup>, J. Karady<sup>1</sup>, B. Szilveszter<sup>1</sup>, P. Kitslaar<sup>2</sup>, B. Merkely<sup>1</sup>, P. Maurovich-Horvat<sup>1</sup>; <sup>1</sup>*Budapest/HU*, <sup>2</sup>*Leiden/NL*

### Chest

**Automatic prediction of emphysema extent in low-dose CT by deep learning (B-0870)**

G. Bortsova<sup>1</sup>, S.N. Ørting<sup>2</sup>, F. Dubost<sup>1</sup>, I. Katramados<sup>3</sup>, L. Hogeweg<sup>3</sup>, M.M. Wille<sup>4</sup>, L.H. Thomsen<sup>4</sup>, M. De Bruijne<sup>1</sup>; <sup>1</sup>*Rotterdam/NL*, <sup>2</sup>*Copenhagen/DK*, <sup>3</sup>*Groningen/NL*, <sup>4</sup>*Hellerup/DK*

### Imaging Informatics

**Evaluation of a multiparametric deep learning model for glioblastoma segmentation (B-1384)**

M. Perkuhn<sup>1,2</sup>, F. Thiele<sup>1,2</sup>, G. Shakirin<sup>1,2</sup>, D. Garmis<sup>1</sup>, P. Stavrinou<sup>1</sup>, J. Borggrefe<sup>1</sup>; <sup>1</sup>*Cologne/DE*, <sup>2</sup>*Aachen/DE*

### Molecular Imaging

**BAT activity in Type I and Type II diabetes mouse models: multimodal imaging study using 7T MRI and intravital microscopy (B-0990)**

C.S.L. Jung, M. Heine, N. Mangels, M. Kaul, G. Adam, H. Ittrich, J. Heeren; *Hamburg/DE*

### Genitourinary

**T-staging of prostate cancer: prevalence and predictive value of frequently used signs of extracapsular extension on prostate MRI (B-1067)**

F. Pesapane, C. Standaert, P. De Visschere, G. Villeirs; *Ghent/BE*

### Head and Neck

**Role of ultrasound in management of indeterminate thyroid nodules (Bethesda III and IV) (B-0492)**

E. Horvath, C. De la Barra, G. Aguilera, C. Silva, J. Slater, V. Skoknic, S. Majlis, M. Garcia, P. Gonzalez; *Santiago/CL*

### Interventional Radiology

**Renal tumour cryoablation beyond T<sup>1</sup>a: outcomes for 56 T<sup>1</sup>b biopsy-proven RCC lesions (B-0624)**

T.A. Gibson, N. Patel, N. McGill, A. King, D. Breen; *Southampton/UK*

## Musculoskeletal

**Oblique sagittal images prevent underestimation of neuroforaminal stenosis grade caused by disc herniation in cervical spine MRI** (B-0437)

L. Kintzelé<sup>1</sup>, C. Rehnitz<sup>1</sup>, H.-U. Kauczor<sup>1</sup>, M.-A. Weber<sup>2,1</sup>; <sup>1</sup>Heidelberg/DE, <sup>2</sup>Rostock/DE

## Neuro

**3D detection of cellular neurodegeneration in Alzheimer's disease via multi-scale x-ray phase-contrast micro- and nano-CT** (B-1041)

G.E. Barbone<sup>1</sup>, P. Di Pietro<sup>2</sup>, M. Eckermann<sup>1</sup>, A. Mittone<sup>3</sup>, A. Bravin<sup>3</sup>, P. Romanelli<sup>4</sup>, G. Battaglia<sup>2</sup>, P. Coan<sup>5</sup>; <sup>1</sup>Garching/DE, <sup>2</sup>Pozzilli/IT, <sup>3</sup>Grenoble/FR, <sup>4</sup>Milan/IT, <sup>5</sup>Großhadern/DE

## Paediatric

**Technical challenges of quantitative chest MRI data analysis in a large cohort paediatric study** (B-0768)

A. Nguyen<sup>1</sup>, A. Perez-Rovira<sup>1</sup>, L. Duijts<sup>1</sup>, M. De Bruijne<sup>1</sup>, A. Aliverti<sup>2</sup>, F. Pennati<sup>2</sup>, T. Ivanovska<sup>3</sup>, H.A. Tiddens<sup>1</sup>, P. Ciet<sup>1</sup>; <sup>1</sup>Rotterdam/NL, <sup>2</sup>Milan/IT, <sup>3</sup>Göttingen/DE

## Physics in Medical Imaging

**First evaluation of new photon counting CT technology** (B-1438)

J. Da Silva, M. Yveborg, F. Grönberg, M. Sjölin, S. Holmin, J. Lundberg, M. Danielsson; *Stockholm/SE*

## Radiographers

**A tool for automated assessment of imaging system resolution** (B-1448)

R. Us, A. Matjašič, R. Bizjak, T. Hribar, Z. Malinova, N. Mekis; *Ljubljana/SI*

## Vascular

**Combined assessment of peripheral artery disease by MRI-based vascular calcification visualisation and quiescent interval single-shot (QISS) MRA** (B-1046)

A. Varga-Szemes<sup>1</sup>, T. Duguay<sup>1</sup>, T. Todoran<sup>1</sup>, S. Fuller<sup>1</sup>, C.N. De Cecco<sup>1</sup>, P. Suranyi<sup>1</sup>, R.R. Edelman<sup>2</sup>, I. Koktzoglou<sup>2</sup>, U.J. Schoepf<sup>1</sup>; <sup>1</sup>Charleston, SC/US, <sup>2</sup>Evanston, IL/US

## Oncologic Imaging

**Pelvic MRI after induction chemotherapy and before long-course chemoradiation therapy: what are the imaging findings?** (B-0167)

I. Blazic, N.M. Campbell, A. Knezevic, M. Gonen, P. Lynn, M. Weiser, J. Garcia-Aguilar, L. Saltz, M.J. Gollub; *New York, NY/US*

## Emergency Imaging

**When ultrasound is not enough: predicting downstream utilisation of CT after ultrasound in patients with acute abdomen** (B-0945)

K. Rippel, D. Ordu, L.-P. Rollandi, T. Kleffel, C. Scheurig-Muenkler, T. Kröncke, F. Schwarz; *Augsburg/DE*