September 10

12:00-17:00	REGISTRATION in "AGORA"
17:00-17:30	OPENING CEREMONY in "APOLLON"
17:30-18:15	INAUGURAL LECTURE in "APOLLON" Markus Schwaiger "Advances in Molecular Imaging from Bench to Bedside"
18:15-19:45	OPENING RECEPTION on the "RHODES Exhibit Hall"

September 11

	Educational Session 1 Cell Labeling Methodologies	Educational Session 2 Discovery of New Imaging Targets	Educational Session 3 Reporter Genes	Educational Session 4 Pharmacology and Parametric Modeling	Educational Session 5 In vitro Molecular Imaging Assays
07:00-08:30					
8:30-9:00	Coffee break				
9:00-9:45	Plenary Lecture 1 in "APOLLON"	**Advances in Stem Cell Biology and Imaging** Bernd Fleischmann (Bonn, Germany)			
9:45-10:30	Coffee break				

	Parallel Session 1 Molecular Imaging of Stem Cells Co-Chairs: Win-Pin Deng (Taiwan) and Joseph Frank (USA)	Parallel Session 2 Molecular Imaging of Vascular Targets Co-Chairs: Renata Pasqualini (USA) and Clemens Lowik (Netherlands)	Parallel Session 3 Molecular Imaging of Gene Delivery and Expression Co-Chairs: June-Key Chung (Korea) and Bertrand Tavitian (France)	Parallel Session 4 Advances in Opto-Acoustic Instrumentation & Applications Co-Chairs: Alexander Oraevsky (USA) and Paul Beard (UK)	Parallel Session 5 SNIDD Molecular Imaging in Drug Development Co-Chairs: Michael Tweedle (Bracco) and Jean-Luc Vanderheyden (GE)
10:30-10:45	**Doublecortin Promoter-Based Reporter Systems for Optical Imaging of Neurogenesis** Couillard-Despres S. (Germany)	**Ligand-directed Targeting and Molecular Imaging in Cancer and Obesity** Arap, W. (USA)	**Molecular Imaging of Gene Delivery and Expression** Jacobs, A. (Germany)	**Probing microvascular morphology, blood oxygenation and gene expression with in vivo functional and molecular optoacoustic imaging: current progress and future prospects** Zemp, R. (Canada)	**Use of Exploratory INDs for Selection of 18F-AV-45 as a PET Amyloid Plaque Imaging Agent** Skovronsky, D. (USA)
10:45-11:00	**Combined Real-time Bioluminescence and Magnetic Resonance Imaging to Monitor Mesenchymal Stem Cell Implantation in the Central Nervous System of Mice.** De Vocht, N. (Belgium)	**Molecular Imaging of Vascularisation and Function using BLI** Lowik, C. (Netherlands)	**Novel Viral Vectors for Multi-Modality Imaging of Tumor-Targeted Gene Delivery and Expression** Krasnykh, V. (USA)	**A High Resolution Optoacoustic Scanner Based on an Optical Ultrasound Sensor for Imaging of small animals** Beard, P. (UK)	**Use of exploratory IND for Early phase clinical trials using PET or SPECT imaging** Tamagnan, G. (USA)
11:00-11:15	**Repetitive [18F]FEAU PET/CT imaging for Monitoring the Migration and Engraftment of an sr39HSV1-tk Reporter Gene-Expressing Mesenchymal Stem Cell (MSC) after NOGAassisted Transendocardial Implantation in a Porcine Model of Acute Myocardial Infarction.** Marini, F. (USA)	**Phage display selected peptide identifies furin protease as potential target for imaging target on pediatric soft tissue sarcoma rhabdomyosarcoma.** Bernasconi, M. (Switzerland).	**PET Assessment of Transgene-Mediated Dopamine Synthesis in a Primate Model of Parkinson's Disease** Muramatsu, S.-I. (Japan)	**Photoacoustic CT scanner for preclinical molecular imaging** Kruger, R. (USA)	**Radioligand discovery during Hit-to-Lead in CNS Drug Development: Earlier can be Better** Schmidt, M. (Belgium)
11:15-11:30	**Non-Invasive Imaging of Gene Expression in Implanted Human Mesenchymal Stem Cells in the Porcine Heart: A Further Step Towards Clinical Translation**. Willmann, J. (USA)	**Conjugated Branched Peptides as Targeting Agents for Tumor Imaging and Therapy.** Pileri, S. (Italy)	**Imaging siRNA silencing in vivo with a ribozyme-mediated reporter** So, M.-K. (Korea & USA)	**Optoacoustic Molecular Imaging with simultaneous intravascular and extravascular targeting** Li, P.-C. (Taiwan)	**Detection of Dose Response in Chronic Doxorubicin mediated Cell Death with Cardiac SPECT 99mTc Annexin V Imaging** Gabrielson, K. (USA)

11:30-11:45	**Prevention of Osteoporosis in SAMP8 Mice by Growth Factor Extract and Progenitor Cell-Based Transplant.** Wu, A. (Taiwan)	**MicroCT Imaging of Angiogenesis in Non-Small Cell Lung Cancer (NSCLC) by Tumor Vasculature Targeting.** Dunne, M. (Canada)	**A Titratable Two-Step Transcriptional Amplification Strategy for Cardiac Gene Therapy Based on Ligand-Induced Intramolecular Folding of a Mutant Estrogen Receptor** Chen, I. (USA)	**In vivo whole body fluorescent protein imaging by means of multispectral optoacoustic tomography** Razansky, D. (Germany)	**Recombinant Escheirichia Coli and Attenuated Salmonella Typhimurium As a Tumor Targeting Imageable Therapeutic Probe** Min, J-J. (Korea)
11:45-12:00	**Quantitation of Iron Oxide Nanoparticles, BrdU and GFP uptake by Local Tissue Macrophages from Labeled Bone Marrow Stromal Cells. Implications for Cellular Imaging**. Pawelczyk, E. (USA)	**Molecular Imaging of Atherosclerosis using PEG-Micelles targeted by an ApoE Derived Peptide.** Vucic, E. (USA)	**Gene-Based Contrast for MRI: Comparison of MagA and Modified Ferritin Subunits** Goldhawk, D. (Canada)	**High Sensitivity Optoacoustic Molecular Imaging using Single Walled Carbon Nanotubes in Living Mice** De la Zerda, A. (USA)	**A novel nanomedicine-based anti-inflammatory treatment for atherosclerosis monitored by clinical multimodality imaging** Mulder, W. (USA)
12:00-13:00	**Lunch Break**				
	Parallel Session 6 **Molecular Imaging of Immune Cell Therapies** **Co-Chairs:** Vladimir Ponomarev (New York) and Mathias Hoehn (Cologne)	**Parallel Session 7** **Molecular Imaging of Antibody Therapies** **Co-Chairs:** Ana Wu (Stanford) and Vladimir Tolmachev (Uppsala).	**Parallel Session 8** **Molecular Imaging of Infection** **Co-Chairs:** Christopher Contag (USA) and Martin Pomper (USA)	**Parallel Session 9** **Advances in Optical Instrumentation** **Co-Chairs:** Vasilis Ntziachristos (Germany), Elizabeth Hilmann	**Parallel Session 10** **Molecular Imaging in Radiobiology and Radiotherapy** **Co-Chairs:** Ted Graves (Stanford) and Andreas Brahme (Sweden)
13:00-13:15	**Advances in Molecular Imaging of Immune Cell Therapies** Ponomarev, V. (USA)	**Advances in Molecular Imaging with Antibodies** Wu, A. (USA)	**Molecular Imaging of Infection - State of the Art.** Oyen W.J. G. (Netherlands)	Overview: **Advances in Photonic Imaging** Nitziachristos, V. (Germany)	**PET-CT, Dose and dose response imaging in photon and light ion therapy** Brahme, A. (Sweden)
13:15-13:30	**MR Imaging of Adoptive Cell Therapies** Farr, T. (Germany)	**Affibody molecules - high affinity scaffold proteins** Tolmachev, V. (Sweden)	**Molecular Imaging Strategies for Tuberculosis: Visualizing the White Plague** Cirillo, J. (USA)	**Simultaneous PET and Multispectral Three-Dimensional Fluorescence Optical Tomography Imaging System for Small Animals** Li, C. (USA)	**In Vitro Optical Imaging of Host Organ-Specific Tumor Responses to Radiation.** Schwartz, D. (USA)
13:30-13:45	**Optical Imaging of Adoptive Cell Therapies** Thorne, S. (USA)	**Antibody PET Imaging in Cancer Detection and Treatment** Larson, S. (USA)	**Real time non-invasive assessment of inflammation and bacterial load in live TB-infected animals.** Jain, S. (USA)	**Hybrid X-ray CT / FMT approach for high-performance molecular imaging applications** Schulz, R. (Germany)	**Effects of Radiation on NF-κB and Hypoxia in Breast Xenograft Model.** Stantz, K. (USA)
13:45-14:00	**Clinical Imaging of Adoptive Cell Therapies** de Vries, J. (Netherlands)	**Immuno-PET: a navigator in monoclonal antibody development and clinical applications.** van Dongen, G. (Netherlands)	**Manifestation of Extrapulmonary Tuberculosis Infection on Integrated Fusion Imaging Modality Positron Emission Tomography Computed Tomography ; A Pilot Study.** Nordin, A. (Italy)	**Pump-Probe Optical Coherence Tomography Development for High-Resolution Imaging of the Microvasculature** Applegate, B. (USA)	**Correlation between various molecular imaging based dose painting targets in radiation oncology.** Jeraj, R. (USA)
14:00-14:15	**Cellular MRI of Magnetovaccination and DC Homing to Lymph Nodes as a Surrogate Marker of In Vivo T Cell Activation** Long, C. (USA)	**Overview of Pretargeted Immuno-SPECT and Immuno-PET** Goldenberg, D. (USA)	**Image-guided gene expression profiles of the pathogen Listeria monocytogenes in vivo.** Eimerman, P. (USA)	**Spatially-Modulated Near-Infrared Imaging for Image-Guided Surgery** Gioux, S. (USA)	**Optimizing PET-CT quantification for radiation treatment planning in treating cancers of the head and neck.** Hadi, M. (USA)
14:15-14:30	**Preclinical molecular imaging and monitoring of causative T-cells during Graft Versus Host Disease Formation and during Anti-GVHD Treatment using repetitive [18F] FEAU PET imaging.** Marini, F. (USA)	**Assessment of Structure-Biodistribution Relationship for Optimal Nanobody Design for In vivo Imaging** Vaneycken, I (Belgium)	**Imaging EBV and KSHV-associated tumors in Vivo.** Fu. D.-X. (USA)	**Real-time multi-spectral surgical fluorescence imaging using attenuation correction** Themelis, G. (Germany)	**Combined Parametric Response Mapping (PRM) of Diffusion and Perfusion Changes During Radiotherapy Enhances Survival Prediction In High Grade Glioma.** Hamstra, D. (USA)
14:30-15:15	**Coffee break**				
15:15-16:00	**Plenary Lecture 2 in "APOLLON"**	**Advances in Imaging Adoptive Cell Immunotherapies** **Caius** Radu (UCLA, USA)			
16:00-17:00	**Poster Session, Coffee**				
17:10-18:40	**Workshop 1** **IBA Molecular Imaging**	**Workshop 2** **GE Small Animal Imaging**	**Workshop 3** **GE Optical Imaging**	**Workshop 4** **Philips**	**Workshop 5** **VisEn Fluorescence Imaging**

September 12

	Educational Session 6 Combined MRI/PET technology	Educational Session 7 Aptamer Imaging	Educational Session 8 Radiopharmaceuticals for molecular CNS imaging	Educational Session 9 Animal Models of Disease	Educational Session 10 Approaches to Nanoparticle Development
8:30-9:00	Coffee break				
9:00-9:45	Plenary Lecture 3	Deep cancer invasion and resistance nisches detected by infrared-excited two-photon microscopy Peter Friedl (Netherlands)			
9:45-10:30	Coffee break				
	Parallel Session 11 Molecular Imaging for Detection and Characterization of Cancer with PET **Co-Chairs:** Juri Gelovani (USA) and Stefano Fanti (Italy)	**Parallel Session 12** Molecular Imaging of Hypoxia **Co-Chairs:** Yasuhisa Fujibayashi (Japan)	**Parallel Session 13** Molecular Neuro-Imaging Co-Chairs: James Frost (USA) & Andreas Jacobs (Germany)	**Parallel Session 14** Advances in PET and SPECT Instrumentation Co-Chairs: Simon Cherry (USA) & Steve Meikle (Australia)	**Parallel Session 15** Advances in Nanoparticle Imaging Approaches Co-Chairs: Sam Gambhir (USA) and Benoit Dubertret (France)
10:30-10:45	**Detection and Characterization of Cancer with PET: European Perspective** Fanti, S. (Italy)	**Combined MRSI, Optical, and Mass Spectrometric Imaging Revealed Distinct Molecular Profiles in Hypoxic Breast Tumor Regions** Glunde, K (USA)	**Molecular and Biomarker Imaging in Addiction and Dependence: Drug Development to New Diagnostics** Frost, J. (USA)	**Recent Advances in PET and SPECT Instrumentation** Cherry S & Meikle S. (USA/Australia)	**Application of 111In-Labeled Micelles in Molecular Imaging of EGFR-Overexpressed Cancer** Lee, H. (Canada)
10:45-11:00	**Molecular Imaging of Receptors for Selection of Therapy** Baum, R. (Germany)	**#1050 Molecular Imaging Assessment of the Impact of Intermittent Hypoxia in Glioblastoma Multiforme Progression** Hsieh, C.-H. (Taiwan)	**Assessment of dopaminergic and opioidergic neurotransmission in addictive behaviour** Schreckenberger, M. (Germany)	**Time-of-flight Imaging Performance of a Lanthanum Bromide PET Scanner** Karp, J. (USA)	**Multiplexed Imaging in Living Mice Using Non-invasive Raman Spectroscopy in Conjunction with 10 Spectrally Unique Raman Nanoparticles** Zavaleta, C. (USA)
11:00-11:15	**Molecular Imaging of Tumor Proliferation for Evaluating Response to Treatment** Herrmann, K. (Germany)	**Longitudinal evaluation of tissue hypoxia and glucose metabolism in different preclinical models of cancer.** Coradeschi, E. (Italy)	**Translational PET imaging of the type 1 cannabinoid receptor** Koen Van Laere (Netherlands)	**Latest Advances in Molecular Imaging Technology: PET/MRI** Pichler, B. (Germany)	**Nanocrystal core high-density lipoproteins: A multimodal molecular imaging contrast agent platform** Cormode, D. (USA & Netherlands)
11:15-11:30	**Detection of Prostate Cancer with PET** Chierichetti, F. (Italy)	**Multimodality approach in the study of angiogenesis: Magnetic Resonance, Positron Emission Tomography and micro-Synchrotron Computer Tomography** Dominietto, M. (Switzerland)	**Developing vigabatrin for treating drug addiction: From bench top to bed side** Dewey S. (USA)	**Performance Investigation of a Trimodal SPECT-CT-OT Small Animal Imaging Instrument** Peter ,J. (Germany)	**Bioimaging of cancer theragnostics using nanoparticle-conjugated AS1411 nucleolin aptamer** Ko, H.-Y. (Korea)
11:30-11:45	**PET/CT with 18F-Fluoroacetate and 18F-FDG, Serum and Tumor Tissue Biomarkers in Rhesus Macaques with Colon Carcinoma** Tian, M. (USA)	**A Comparative Study between [18F]fluoro-azomycin-beta-deoxyriboside, [18F]fluoroazomycin-alpha-deoxyriboside, [18F]FAZA and [18F]FMISO** Maier, F. (Germany)	**Imaging HIV-associated depression using [11C]DASB-PET** Hammoud, D. (USA)	**Multi-functional PET/MR Imaging: First Results from Combined fMRI, ASL and PET** Wehrl, H. (Germany)	**Dual Modality Magnetic Resonance and Fluorescence Imaging Superparamagnetic Iron Oxide-Based Nanoprobe for Sentinel Node Imaging** Bumb ,A. (USA)
11:45-12:00	**Molecular Imaging of EGFR Expression-Activity in Tumors with 18F / 124I -labeled oligoPEG-lPQA PET for Selection and Monitoring of Therapy.** Yeh, H.-H. (USA)	**In Vivo Imaging of Tumor Oxygen Levels using Paramagnetic Resonance Imaging** Matsumoto, S. (USA)	**In Vivo PET Quantification of DA-Receptor and -Transporter Binding Potential in Mice Deficient of Large Conductance Calcium- and Voltage-Activated Potassium (BK) Channels** Fischer, K. (Germany)	**Characterization of a Sub-Millimeter, High Contrast SPECT System for Multimodality SPECT/PET/CT Small Animal Imaging** Tainter, K. (USA)	**Theragnostics with Magnetic Gold Nanoshells: Photothermal Therapy and T2* Magnetic Resonance Imaging** Melancon, M. (USA)
					#307 - 2.0; #235 - 2.0
12:00-13:00	Lunch Break				

	Parallel Session 16	Parallel Session 17	Parallel Session 18	Parallel Session 19	Parallel Session 20
	Clinical Translation of Novel Oncologic Imaging Agents and Methods **Co-Chairs:** Johanes Czernin, Wolfgang Weber.	**Molecular Imaging of Inflammation** **Co-Chairs:** Andreas Wunder (Germany) and James Basilion (USA)	**Molecular Imaging of Neuro-Degenerative Diseases** **Co-Chairs:** Karl Herholz (Manchester, UK), Chester Mathis (Pittsburg, USA).	**Advances in MR Instrumentation** **Co-Chairs:** Chrit Moonen (France), Tom Budinger (USA)	**Molecular Imaging of Cardio-Vascular System** **Co-Chairs:** Markus Schwaiger (Munich, Germany) & David Sosnovik (Boston, USA)
13:00-13:15	**Radiation dosimetry and Biodistribution of 18F-HX4 Measured in Healthy Volunteers** Yu, J.Q. (USA)	**Evaluation of [18F]PBR111 in a rat model of neuroinflammation: a new radiotracer for the TSPO 18kD (Peripheral Benzodiazepine Receptor)** van Camp, N. (Australia)	**In vivo Imaging in Animal Models of Neurodegenerative Diseases: Where Are We Now?** Doudet, D.J. (Canada)	**Biomedicine Horizons from Advances in Magnetic Resonance Instrumentation** Budinger, T. (USA)	**Advances MRI of Cardiovascular Diseases** Sosnovik, D. (USA)
13:15-13:30	**Pharmacokinetics, Biodistribution, Metabolism, and Radiation Dosimetry of [18F]FPEG6-IPQA in Non-Human Primates: A pre-IND Study.** Tian, M. (USA)	**Tracking the Inflammatory Response in Stroke in vivo by Sensing the Enzyme Myeloperoxidase** Breckwoldt, M. (USA)	**Design, synthesis, and testing of difluoroboron derivated curcumins as "smart" near Infrared probes for in vivo detection of amyloid-beta deposits** Ran, C. (USA)	**Multi-Channel RF-Coils for MRI of Small Animals in Clinical Environment** Wichmann, T. (Germany)	**PET in Translational Research of Cardiovascular Diseases** Bengel, F.
13:30-13:45	**68Ga-DOTA-Tyr3-Octreotide PET in thyroid cancer patients compared to 18F-FDG-PET and radioiodine-avidity** Putzer, D. (Austria)	**Live imaging of TLR2 induction and microglial activation in brain injuries** Kriz, J. (Canada)	**Identifying Amyloid-Positive Controls using PiB PET** Price, J. (Pittsburg, USA)	**Direct Imaging of Ferumoxides using Magnetic Particle Imaging: Instrument Construction, Sensitivity, and 3d Imaging** Goodwill, P. (USA)	**Bioluminescence Imaging in Cardiovascular Disease** Dong Kim
13:45-14:00	**Diffusion-Weighted MR Imaging (DWI) for Detection of Pelvic Lymph Node Metastases in Correlation with 11C-Cholin-PET/CT - Preliminary Experience** Eiber, M. (Germany)	**In vivo [18F]FAZA PET-Imaging of Inflammation-induced Hypoxia in a Small Animal Model of Rheumatoid Arthritis** Fuchs, K. (Germany)	**Association between microstructural and functional alterations in early AD: a combined DTI-PET study** Yakushev, I. (Germany)	**Simultaneous PET and MRI - Why Bother** Jacobs, R. (USA)	**Fluorescence Reflectance Imaging of Macrophage-Associated Alpha(v)beta(3) Integrin Expression in Atherosclerotic Lesions with RGD-Cy 5.5** Waldeck, J. (Germany)
14:00-14:15	**Targeted biotherapies of cancer assisted by optical imaging** Coll, J.-L. (France)	**Molecular imaging of VCAM-1 expression in inflammatory pathologies by using low molecular weight peptides conjugated to a paramagnetic reporter** Burtea, C. (France)	**Correlation of Glucose Metabolism and Microglial Activation in Multiple System Atrophy - a PET study** Gerhard, A. (UK)	**Local control of transgene expression using MRI guided HIFU on a transgenic mouse** Deckers, R. (France)	**Modulation of atherosclerotic plaque and Matrix Metalloprotainase (MMP) activity by Minocycline: Evaluation by molecular imaging of MMP expression** Ohshima, S. (Japan)
14:15-14:30	**Image Fusion to Guide Molecular Interventions.** Wood, B. (USA)	**Design and characterization of new MR imaging agents sensitive to myeloperoxidase activity** Rodriguez, E. (USA)	**In vivo SPECT imaging of vesicular acetylcholine transporter using [123I]-IBVM in neurodegenerative diseases** Mazere, J. (France)	**1D and 2D Correlation MR Spectroscopy at 7T: A Feasibility Study on Human Bone Marrow and Soleus Muscle** Mountford, C. (USA)	**Noninvasive Characterization of Human Carotid Plaques by Imaging of αvβ3 Expression with [18F]Galacto-RGD PET/CT** Beer, A. (Germany)
14:30-15:15	**Coffee break**				
15:15-16:00	**Plenary Lecture 4**	**Imaging Metabolism** Kevin Brindle (UK).			
16:00-17:00	**Poster Session, Coffee**				
17:10-18:40	**Workshop 6** **MIP, Eckert & Ziegler Radiopharma, GE 68Ga Labeled Radiotracers in Molecular Imaging**	**Workshop 7** **Carestream/Kodak**	**Workshop 8** **Siemens Small Animal Imaging**	**Workshop 9** **BioSpace In Vivo Pre-Clinical Imaging Solutions**	**Workshop 10** **Bruker Molecular Targets for Cardio-Vascular Imaging**
18:40-20:00	**Free Time**				
20:00-11:00	**Evening and Cultural Events**				

September 13

	Educational Session 11	Educational Session 12	Educational Session 13	Educational Session 14	Educational Session 15
	Approaches and Methods in MRI probe Design	**Advances in vivo microscopy**	**Molecular imaging of the vascular system**	**Radiolabeled regulatory peptides in tumor imaging and therapy**	**Molecular MRI for CNS imaging**
8:30-9:00	**Coffee break**				
9:00-9:45	**Plenary Lecture (Session) 5**	**Of Mice and Man and Imaging** Markus Rudin (Zurich)			
9:45-10:30	**Coffee break**				

	Parallel Session 21	Parallel Session 22	Parallel Session 23	Parallel Session 24 (ISMRM)	Parallel Session 25 (RSNA)
	Advances in PET/SPECT Probes **Co-Chairs:** William Eckelman (USA) and Silvio Aime (Italy)	**Molecular Imaging of Apoptosis, Autophagy & Necrosis** **Co-Chairs:** Kevin Brindle (Cambridge, UK) and Leonard Hofstra (Mastricht, Netherlads)	**Molecular Imaging of Epigenetic Regulation of Gene Expression** **Co-Chairs:** Juri Gelovani (USA) & Eric Hostetler (Merck, USA)	**Advances in MR probes and Spectroscopic Imaging** **Co-Chairs:** John Waterton (UK) and Alexei Bogdanov (USA)	**Novel Imaging for Clinical Studies.** **Co-Chairs:** Gabriel Kerstin (Netherlands) and Jan Grimm (USA)
10:30-10:45	**Indium-111 Labeled Conjugates of Naltrindole: Radioligands for SPECT Visualization of Delta Opioid Receptors Expressed by Small Cell Lung Cancers.** Lever, J. (USA)	**The Current Status of Imaging Apoptosis, Autophagy and Necrosis.** Leonard Hofstra (Netherlands)	**Imaging and Drug Targeting of Epigenetic Regulation** Eric Hosteler (Merck)	**Advances in MR Probes and Spectroscopy** Sarah Nelson	**#1681 Requirements for Imaging from a Molecular Oncologist's Point on View** Stadler, W. (USA)
10:45-11:00	**A Library Approach: Synthesis of 11C-Carbonyl-Labelled Irreversible Binding EGFR Inhibitors as Potential Biomarkers for Tumours Using [11C]Carbon Monoxide.** Aberg, O. (Sweden)	**Molecular MRI of Apoptosis in the Heart within Four Hours of Ischemia Reperfusion Injury.** Sosnovik, D. (USA)	**Labeling and biodistribution of the histone deacetylase inhibitor SAHA.** Haberkorn, U. (Germany)	**#924 A novel technique for screening a library of CEST MRI** McMahon, M. (USA)	**#1683 Imaging Biomarkers** Nunn, A. (USA)
11:00-11:15	**Radiopharmaceutical Strategies for the Imaging of Angiogenesis in Cancer.** Ilovich, O. (Israel)	**Imaging Acute Cardiac Cell Death using 99mTc-Duramycin.** Zhao, M. (USA)	**Assessment of Dose-Dependent Inhibition of HDACs Activity in the Rat Brain Induced by Different HDAC Inhibitors Using In Vivo PET Imaging with 18FAHA.** Yeh, H.-H. (USA)	**#1127 A high relaxivity Gd(III)DOTA-DSPE-based liposomal contrast agent for target-specific MRI.** Nicolay, K. (Netherlands)	**#1684 MR Imaging in Clinical Trials** Schwartz, L. (USA)
11:15-11:30	**A Submicrogram-Scale PET Imaging of Biomolecules: New Labeling of Lysines via 6pai-Azaelectrocyclization** Tanaka, K. (Japan)	**Imaging Of Intracellular Caspase-3 To Visualize Apoptosis.** Hermann, S. (Germany)	**[18F]FAHA is a Useful PET Tracer for Determining Inhibition of Central Histone Deacetylase (HDAC) Activity in Rhesus Monkey.** Hostetler, E. (USA)	**#264 In Vivo Evaluation of Tissue Redox Status using Metabolically Responsive MRI Contrast Agents.** Krishna, M. (USA)	**#1685 PET Imaging in Clinical Trials** von Schulthess, G. (Switzerland)
11:30-11:45	**Silicon-Based One-Step Method for 18 F-Labeling of Peptides and A Theoretic Model for Predicting Hydrolytic Stability.** Mu, L. (Germany)	**In Vivo Imaging of HSP60 expression after arteroial…** Wick, M. (Austria)	**Biodistribution and Radiation Dosimetry of [18F]-FAHA in Non-human Primates: a Pre-IND Study.** Nishii, R. (Japan)	**#456 Monitoring Dynamic Calcium Homeostasis Alterations by Cardiac Manganese-Enhanced MRI (MEMRI) with T1 Mapping in a Murine Myocardial Infarction Model** Waghorn, B. (USA)	**#1682 Clinical Optical Imaging** Seiden, M. (USA)
11:45-12:00	**18F-labeled aryltrifluoroborates - products of a one step aqueous labeling of biomolecules with 18F-fluoride upon reaction with arylboronic acids.** Perrin, D. (Canada)	**Cell-Permeable 99mTc(CO3)-Labeled Fluorogenic Caspase Substrate for Dual Modality Detection of Apoptosis.** Li, C. (USA)	**Measurement of hTERT gene silencing induced by specific siRNA using NIS reporter gene.** Kim, S. (Korea)	**#1118 Towards the Multiple Detection of MRI Probes.** Terreno, E. (Italy)	**Panel Discussion**
12:00-13:00	**Lunch Break**				

	Parallel Session 26 (SNM)	Parallel Session 27	Parallel Session 28	Parallel Session 29	Parallel Session 30 (FASMI)
	Co-Chairs: Homer Macapinlac (USA) and Henry Van Brocklin (USA)	**Molecular Imaging of Signal Transduction & Protein-protein Interactions** **Co-Chairs:** David Piwnica-Worms (USA), Eyal Mishani (Israel)	**Advances in US probes** **Co-Chairs:** Alex Klibanov (USA) and Michel Schneider (Bracco, Switzerland)	**Advances in MR Spectroscopy using hyperpolarized agents** **Co-Chairs: Chrit Moonen (France) and Sarah Nelson (USA)**	**Co-Chairs:** Yasuhisa Fujibayashi (Japan) and Ren S. Liu (Taiwan)
13:00-13:15	**Advocacy Issues** Atcher, R. (USA)	**Quantification of dynamic protein complexes in real-time using Renilla luciferase-fragment complementation** Stefan, E. (Canada)	**Advances in Contrast Agents for Ultrasound Molecular and Cellular Imaging** Klibanov, A. (USA)	**In Vivo Hyperpolarized 13C MR Spectroscopic Imaging in a Rat Model of Brain Tumor** Park, I. (USA)	**Sentinel Node Navigation Surgery in Lung Cancer Using A Novel Receptor Binding Agent (Tc-99m Neomannsyl human serum albumin, 99m Tc-MSA): First clinical trial and ongoing study.** Kim, S. (Korea)
13:15-13:30	**Regulatory challenges for clinical translation of novel radiotracers in North America.** Schwarz, S. (USA)	**Construction of Protein Fragment Complementation Using GFP-like fluorescent protein Dronpa** Han, Y.S. (Korea)	**Molecular ultrasound imaging of vascular markers of inflammation in rodents.** Bettinger, T. (Bracco, Switzerland)	**Temperature-Controlled Signal Amplification for Detection of Functionalized Xenon Biosensors** Schröder, L. (USA)	**Near-Infrared Fluorescent Imaging of Cathepsin-B Enzyme Activity Reflects Anti-Atherosclerotic Effects Of Statin Both In Mice And Humans.** Kim, J-Y (Korea)
13:30-13:45	**Regulatory challenges for clinical translation of novel radiotracers in Europe.** Verbruggen, A. (Belgium)	**GPI anchored avidin- a novel protein reporter for in vivo imaging** Lehmann, S. (Switzerland)	**Clinical Applications of Kupffer Cell Targeted Imaging of the Liver Using a New Ultrasound Contrast Agent, Perflubutane Microbubble**. Moriyasu, T. (Japan)	**Tumor and metastatic cancer cells detection using targeted contrast agent in iMQC and hyperpolarized 3He experiments** Branca R.T.(USA)	**Targeted Therapeutic Evaluation on Inhibition of Fatty Acid Synthase in a Human Prostate Carcinoma LNCaP/tk-luc Bearing Animal Model with Molecular Imaging.** Tai, W.-T. (Taiwan)
13:45-14:00	**Regulatory challenges for clinical translation of novel radiotracers in Asia.** Fujibayashi, Y. (Japan)	**Non-invasive assessment of E2F-1 mediated transcriptional regulation in vivo** Monfared, P. (Germany)	**Targeted versus Free Circulating Ultrasound Contrast Agents: Towards New Molecular Imaging Strategies** van Wamel, A. (Netherlands)	**Hyperpolarized MR Spectroscopy: An In Vivo Marker of PDH Activity** Schroeder, M. (UK)	**Non-invasive reporter gene imaging for determining the inhibition kinetics of tumorigenesis by actin depolymerizing factor (ADF)/cofilin.** Lee, Y.-J. (Taiwan)
14:00-14:15	**Predictive PET Imaging for Nucleoside Analog Resistance in Cancer.** Laing, R. (USA)	**A double transgenic rat for the in vivo imaging of human prolactin dual promoter gene expression** Semprini, S. (UK)	**Dual-targeted Contrast Agent for Ultrasonic Assessment of Tumor Angiogenesis in Vivo** Willmann, J. (USA)	**Tissue-specific T2 of Hyperpolarized 13C Metabolites** Yen, Y.-F. (USA)	**Development of a radiolabeled peptide derivative targeting matrix metalloproteinase-2, for imaging tumors.** Hanaoka, H. (Japan)
14:15-14:30	**Comparison of Bone Scintigraphy and Imaging of αvβ3 Expression with [18F]Galacto-RGD PET for Evaluation of Osseous Metastases in Prostate Cancer Patients.** Beer, A. (Germany)	**Molecular Imaging Captures the Highs and Lows of Endogenous Cdc25A in Mice and MEFs** Piwnica-Worms, H. (USA)	**Activatable Perfluorocarbon Ultrasound Probes for Cellular Imaging** Matsuura, N. (Canada)	**Hyperpolarized Carbon-Carbon Intermolecular Multiple Quantum Coherences** Warren, W. (USA)	**MRI Probe to detect enzyme activity using paramagnetic relaxation enhancement.** Mizukami, S. (Japan)

14:30-15:15	**Coffee break**
15:15-16:00	**3 Presentations by the Young Investigator Award Competitors**
16:00-17:00	**Poster Session, Coffee**

17:10-18:40	Workshop 11	Workshop 12	Workshop 13	Workshop 14	Workshop 15
	GE Current GMP in academia: Facilities Design, Manufacturing and Documentation				

19:00-23:00	**GALA Event and Closing Ceremony**