

DAY 0 September 10

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

DAY 1 September 11

	Educational Session 1 Quantitative In Vivo Pharmacological Imaging Co-Chairs: Richard Carson and Gitte Knudsen	Educational Session 2 Cell Labeling Methodologies Co-Chairs: Win-Ping Deng and Joseph Frank	Educational Session 3 In Vitro Molecular Imaging Assays Co-Chairs: Clemens Lowik and David Piwnica-Worms	Educational Session 4 Discovery of New Imaging Targets Co-Chairs: Christopher Morris and Renata Pasqualini	Educational Session 5 Reporter Genes Co-Chairs: Vikas Kundra and Andreas Jacobs
7:00-7:30	Compartmental Modeling AA Lammertsma	Molecular-genetic reporter labeling of stem cells for imaging Win-Pin Deng	Optical in vitro molecular imaging assays David Piwnica-Worms	In vivo Phage Display methods for discovery of new targets and imaging ligands Wadih Arap	Introduction and Clinical Translation of Reporter Gene Imaging Vikas Kundra
7:30-8:00	Parametric Receptor Imaging Richard Carson	Magnetic labeling of stem cells and immune cells for imaging Ali S Arbab	In vitro radiotracer kinetics assays: methods and measures Juri Gelovani	Identification of Neuroimaging Targets in Dementia Using Whole Genome Approaches Chris Morris	Applications of Reporter Gene Imaging in Neuroscience Alexandra Winkler
8:00-8:30	In vivo Pharmacology, Gitte Knudsen	Labeling of stem cells and immune cells for optical imaging Vladmir Ponomarev	Reference molecular-biological assays for validation of novel molecular imaging agents Anna Planas	Target selection and effective probe development Julie Sutcliffe	Molecular Basis of Imaging Gene Expression Philip Liu
8:30-9:00	Coffee break				
9:00-9:45	Plenary Lecture 1 Advances in Stem Cell Biology and Imaging, Bernd Fleischmann				
9:45-10:30	Coffee break				
	Scientific Session 1 Molecular Imaging of Stem Cells Co-Chairs: Win-Pin Deng and Joseph Frank	Scientific Session 2 Molecular Imaging of Vascular Targets Co-Chairs: Clemens Lowik and Renata Pasqualini	Scientific Session 3 Molecular Imaging of Gene Delivery and Expression Co-Chairs: June-Key Chung and Bertrand Tavitian	Scientific Session 4 Advances in Optoacoustic Instrumentation and Applications Co-Chairs: Paul Beard and Alexander Oraevsky	Scientific Session 5 SNIDD Molecular Imaging in Drug Development Co-Chairs: Michael Tweedle and Jean-Luc Vanderheyden
10:30-10:45	Doublecortin Promoter-Based Reporter Systems for Optical Imaging of Neurogenesis Couillard-Despres S	Therapeutic Implications of Vascular Targeting and Nanotechnology Pasqualini, R	Molecular Imaging of Gene Delivery and Expression Andreas Jacobs	Probing microvascular morphology, blood oxygenation and gene expression with in vivo functional and molecular optoacoustic imaging: current progress and future prospects Zemp R	Use of Exploratory INDs for Selection of 18F-AV-45 as a PET Amyloid Plaque Imaging Agent Daniel Skovronsky

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	Molecular Imaging of Vascularisation and Function using BLI Clemens Lowik	Novel Viral Vectors for Multi-Modality Imaging of Tumor-Targeted Gene Delivery and Expression Krasnykh V	A High Resolution Optoacoustic Scanner Based on an Optical Ultrasound Sensor for Imaging of small animals Beard P	Use of exploratory IND for Early phase clinical trials using PET or SPECT imaging Gilles Tamagnan
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 NOGA Assisted Transcatheter Implantation in a Porcine Model of Acute Myocardial Infarction Marini F	Phage display selected peptide identifies furin protease as potential target for imaging target on pediatric soft tissue sarcoma rhabdomyosarcoma Bernasconi M	PET Assessment of Transgene-Mediated Dopamine Synthesis in a Primate Model of Parkinson's Disease S-I Muramatsu	Photoacoustic CT Scanner for Preclinical Molecular Imaging Kruger R	Radioligand discovery during Hit-to-Lead in CNS Drug Development: Earlier can be Better Mark Schmidt
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	Conjugated Branched Peptides as Targeting Agents for Tumor Imaging and Therapy Pileri S	Imaging siRNA silencing in vivo with a ribozyme-mediated reporter So M-K	Photoacoustic Molecular Imaging with simultaneous intravascular and extravascular targeting Pai Chi Li	Detection of Dose Response in Chronic Doxorubicin mediated Cell Death with Cardiac SPECT 99mTc Annexin V Imaging Kathleen Gabrielson
11:30-11:45	Prevention of Osteoporosis in SAMP8 Mice by Growth Factor Extract and Progenitor Cell-Based Transplant Wu A	MicroCT Imaging of Angiogenesis in Non-Small Cell Lung Cancer (NSCLC) by Tumor Vasculature Targeting Dunne M	A Titratable Two-Step Transcriptional Amplification Strategy for Cardiac Gene Therapy Based on Ligand-Induced Intramolecular Folding of a Mutant Estrogen Receptor Chen I	In vivo whole body fluorescent protein imaging by means of multispectral optoacoustic tomography Daniel Razansky	Recombinant Escheirichia Coli and Attenuated Salmonella Typhimurium As a Tumor Targeting Imageable Therapeutic Probe Jung-Joon Min
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	Molecular Imaging of Atherosclerosis using PEG-Micelles targeted by an ApoE Derived Peptide Vucic E	Gene-Based Contrast for MRI: Comparison of MagA and Modified Ferritin Subunits Goldhawk D	High Sensitivity Optoacoustic Molecular Imaging using Single Walled Carbon Nanotubes in Living Mice Zerda A De la	A novel nanomedicine-based anti-inflammatory treatment for atherosclerosis monitored by clinical multimodality imaging Willem Mulder
12:00-13:00	Lunch Break				
	Scientific Session 6 Molecular Imaging of Immune Cell Therapies Co-Chairs: Vladimir Ponomarev and Mathias Hoehn	Scientific Session 7 Molecular Imaging in Radiobiology and Radiotherapy Co-Chairs: Ted Graves and Andreas Brahme	Scientific Session 8 Molecular Imaging of Infection Co-Chairs: Christopher Contag and Martin Pomper	Scientific Session 9 Advances in Optical Instrumentation Co-Chairs: Vasilis Ntziachristos and Elizabeth Hilmann	Scientific Session 10 Molecular Imaging of Antibody Therapies Co-Chairs: Ana Wu and Vladimir Tolmachev
13:00-13:15	Nuclear Imaging in Cancer Immunotherapies Vladimir Ponomarev	PET-CT, Dose and dose response imaging in photon and light ion therapy Andres Brahme	Molecular Imaging of Infection - State of the Art Oyen WJ G	Advances in Photonic Imaging Vasilis Ntziachristos	Advances in Molecular Imaging with Antibodies Anna Wu
13:15-13:30	A Critical Re-Examination of the Capability of MRI to Detect Macrophage Infiltration into Ischemic Tissue Tracy Farr	In Vitro Optical Imaging of Host Organ-Specific Tumor Responses to Radiation Schwartz D	Molecular Imaging Strategies for Tuberculosis: Visualizing the White Plaque Cirillo J	Simultaneous PET and Multispectral Three-Dimensional Fluorescence Optical Tomography Imaging System for Small Animals Cherry, S	Affibody molecules - high affinity scaffold proteins Vladimir Tolmachev

13:30-13:45	Optical Imaging in the Pre-Clinical Development of Cancer Immunotherapies Steven Thorne	Effects of Radiation on NF-κB and Hypoxia in Breast Xenograft Model Stantz K	Real time non-invasive assessment of inflammation and bacterial load in live TB-infected animals Jain S	Hybrid X-ray CT / FMT approach for high-performance molecular imaging applications Schulz, R	Antibody PET Imaging in Cancer Detection and Treatment Steven Larson
13:45-14:00	Tracking of Dendritic Cells in Melanoma Patients Jolanda de Vries	Correlation between various molecular imaging based dose painting targets in radiation oncology Jeraj R	Manifestation of Extrapulmonary Tuberculosis Infection on Integrated Fusion Imaging Modality Positron Emission Tomography Computed Tomography ; A Pilot Study Nordin A	Pump-Probe Optical Coherence Tomography Development for High-Resolution Imaging of the Microvasculature Applegate B	Immuno-PET: a navigator in monoclonal antibody development and clinical applications Guus van Dongen
14:00-14:15	Cellular MRI of Magneto-vaccination and DC Homing to Lymph Nodes as a Surrogate Marker of In Vivo T Cell Activation Long C	Optimizing PET-CT quantification for radiation treatment planning in treating cancers of the head and neck Hadi M	Image-guided gene expression profiles of the pathogen Listeria monocytogenes in vivo Eimerman P	Spatially-Modulated Near-Infrared Imaging for Image-Guided Surgery Gioux S	Overview of Pretargeted Immuno-SPECT and Immuno-PET Goldenberg D
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	Combined Parametric Response Mapping (PRM) of Diffusion and Perfusion Changes During Radiotherapy Enhances Survival Prediction In High Grade Glioma Hamstra D	Imaging EBV and KSHV-associated tumors in Vivo Fu D-X	Real-time multi-spectral surgical fluorescence imaging using attenuation correction Themelis G	Assessment of Structure-Biodistribution Relationship for Optimal Nanobody Design for In vivo Imaging Vaneycken I
14:30-15:15 Coffee break					
15:15-16:00 Plenary Lecture 2 Advances in Imaging Adoptive Cell Immunotherapies Caius Radu					
16:00-17:00 Poster Session, Coffee					
17:10-18:40	Workshop 1 Optical Imaging: From Chemistry to Clinical Translation (GE Healthcare)	Workshop 2 Fluorescence In vivo Imaging: Translational Data from Research through Medicine (VisEn Medical)	Workshop 3 Revolutions in Pre-clinical Imaging (GE Healthcare)	Workshop 4 Advancing Translational Medicine: Illustrations with Molecular Imaging (Philips)	Workshop 5 Developing Imaging Radiopharmaceuticals for the Future (IBA Molecular) Calliope Room
18:40-20:00 Free Time					
20:00-11:00 Evening and Cultural Events					

DAY 2 September 12

	Educational Session 6 Combined MRI/PET Technology Co-Chairs: John Clark and Simon Cherry	Educational Session 7 Reporter Animals as Novel Tools for Drug Discovery Co-Chairs: Sam Gambhir and Adriana Maggi	Educational Session 8 Radiopharmaceuticals for Molecular CNS imaging Co-Chairs: Denis Guilloteau and Christer Halldin	Educational Session 9 Approaches to Nanoparticle Development Co-Chairs: Chun Li and Luisa Decola	Educational Session 10 Molecular MRI of CNS Imaging Co-Chairs: (EIBIR) Mathias Hoehn and Mike Modo
7:00-7:30	Introduction to PET/MRI, Simon Cherry	Designing Reporter Mice Christopher Contag	Regulation issues for Radioligand development for Molecular CNS imaging Alfons Verbruggen	Core-Shell Structured Metal Nanoparticles in Cancer Diagnosis and Therapy, Chun Li	Issues of fMRI in Rodents Mathias Hoehn

7:30-8:00	Different Approaches to Achieving Integrated PET/MRI Systems Rob Hawkes	Reporter Systems and Drug Development Adriana Maggi	Radioligand Preclinical evaluation for Molecular CNS imaging Sylvie Chalon	Multi-modality Nanoparticles Jeff Bulte	Brain Regeneration followed with MR Cell Tracking Mike Modo
8:00-8:30	Roadmap of first in vivo results on preclinical and clinical PET/MRI Bernd Pichler	Reporter Mice in Drug Development Peter Lassotta	Clinical PET Neuroscience and Drug Development Christer Halldin	Nanoparticles and Nano-containers: Synthesis and Applications Luisa Decola	Axonal Tracing Using Manganese MRI Rick Dijkhuizen
8:30-9:00	Coffee break				
9:00-9:45	Plenary Lecture 3 Deep cancer invasion and resistance niches detected by infrared-excited two-photon microscopy, Peter Friedl				
9:45-10:30	Coffee break				
	Scientific Session 11 Molecular Imaging of Hypoxia Co-Chairs: Yasuhisa Fujibayashi and Bernd Pichler	Scientific Session 12 Molecular Neuro-Imaging Co-Chairs: James Frost and Andreas Jacobs	Scientific Session 13 Advances in PET and SPECT Instrumentation Co-Chairs: Simon Cherry and Steve Meikle	Scientific Session 14 Molecular Imaging for Detection and Characterization of Cancer with PET Co-Chairs: Juri Gelovani and Stefano Fanti	Scientific Session 15 Advances in Nanoparticle Imaging Approaches Co-Chairs: Sam Gambhir and Benoit Dubertret
10:30-10:45	Combined MRSI, Optical, and Mass Spectrometric Imaging Revealed Distinct Molecular Profiles in Hypoxic Breast Tumor Regions Glunde K	Molecular and Biomarker Imaging in Addiction and Dependence: Drug Development to New Diagnostics James Frost	Recent Advances in PET and SPECT Instrumentation Cherry S & Meikle S	Detection and Characterization of Cancer with PET: European Perspective Stefano Fanti	Application of 111In-Labeled Micelles in Molecular Imaging of EGFR-Overexpressed Cancer Lee H
10:45-11:00	Molecular Imaging Assessment of the Impact of Intermittent Hypoxia in Glioblastoma Multiforme Progression Hsieh C-H	Assessment of dopaminergic and opioidergic neurotransmission in addictive behaviour Mathias Schreckenberger	Time-of-flight Imaging Performance of a Lanthanum Bromide PET Scanner Karp J	Monitoring Response after Peptide Receptor Radionuclide Therapy (PRRT) in patients with metastasized neuroendocrine tumors (NET): Comparison of metabolic (F-18-FDG), molecular (Ga-68-DOTA-NOC) and morphologic response (RECIST) using PET/CT Richard Baum	Multiplexed Imaging in Living Mice Using Non-invasive Raman Spectroscopy in Conjunction with 10 Spectrally Unique Raman Nanoparticles Zavaleta C
11:00-11:15	Longitudinal evaluation of tissue hypoxia and glucose metabolism in different preclinical models of cancer Coradeschi E	Translational PET imaging of the type 1 cannabinoid receptor Koen Van Laere	Performance Investigation of a Trimodal SPECT-CT-OT Small Animal Imaging Instrument Peter J	Molecular Imaging of Tumor Proliferation for Evaluating Response to Treatment Ken Herrmann	Nanocrystal core high-density lipoproteins: A multimodal molecular imaging contrast agent platform Cormode D
11:15-11:30	Multimodality approach in the study of angiogenesis: Magnetic Resonance, Positron Emission Tomography and micro-Synchrotron Computer Tomography Dominietto M	Developing vigabatrin for treating drug addiction: From bench top to bed side Stephen Dewey	Characterization of a Sub-Millimeter, High Contrast SPECT System for Multimodality SPECT/PET/CT Small Animal Imaging Tainter K	Detection of Prostate Cancer with PET Franca Chierichetti	Bioimaging of cancer theragnostics using nanoparticle-conjugated AS1411 nucleolin aptamer Ko H-Y

11:30-11:45	A Comparative Study between [18F]fluoro-azomycin-beta-deoxyriboside, [18F]fluoroazomycin-alpha-deoxyriboside, [18F]FAZA and [18F]FMISO Maier F	Imaging HIV-associated depression using [11C]DASB-PET Hammoud D	Latest Advances in Molecular Imaging Technology: PET/MRI Pichler B	PET/CT with 18F-Fluoroacetate and 18F-FDG, Serum and Tumor Tissue Biomarkers in Rhesus Macaques with Colon Carcinoma Tian M	Dual Modality Magnetic Resonance and Fluorescence Imaging Superparamagnetic Iron Oxide-Based Nanoprobe for Sentinel Node Imaging Bumb A
11:45-12:00	In Vivo Imaging of Tumor Oxygen Levels using Paramagnetic Resonance Imaging Matsumoto S	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	Multi-functional PET/MR Imaging: First Results from Combined fMRI, ASL and PET Wehrl H	Molecular Imaging of EGFR Expression-Activity in Tumors with 18F / 124I -labeled oligoPEG-IPQA PET for Selection and Monitoring of Therapy Yeh, H-H	Theranostics with Magnetic Gold Nanoshells: Photothermal Therapy and T2* Magnetic Resonance Imaging Melancon M
Lunch Break					#307 - 20; #235 - 20
12:00-13:00	Scientific Session 16 Molecular Imaging of Inflammation Co-Chairs: Andreas Wunder and James Babilion	Scientific Session 17 Molecular Imaging of Neuro-Degenerative Diseases Co-Chairs: Karl Herholz and Chester Mathis	Scientific Session 18 Advances in MR Instrumentation Co-Chairs: Chrit Moonen and Tom Budinger	Scientific Session 19 Molecular Imaging of Cardio-Vascular System Co-Chairs: Markus Schwaiger and David Sosnovik	Scientific Session 20 Clinical Translation of Novel Oncologic Imaging Agents and Methods Co-Chairs: Johannes Czernin and Wolfgang Weber
13:00-13:15	Evaluation of [18F]PBR111 in a rat model of neuro-inflammation: a new radiotracer for the TSPO 18kD (Peripheral Benzodiazepine Receptor) Van Camp N	In vivo Imaging in Animal Models of Neurodegenerative Diseases: Where Are We Now? Doudet DJ	Biomedicine Horizons Resulting from Advances in Magnetic Resonance Instrumentation Budinger T	Advances MRI of Cardiovascular Diseases David Sosnovik	Radiation dosimetry and Biodistribution of 18F-HX4 Measured in Healthy Volunteers Yu, JQ
13:15-13:30	Tracking the Inflammatory Response in Stroke in vivo by Sensing the Enzyme Myeloperoxidase Breckwoldt M	Design, synthesis, and testing of difluoroboron derivated curcumins as "smart" near Infrared probes for in vivo detection of amyloid-beta deposits Ran C	Multi-Channel RF-Coils for MRI of Small Animals in Clinical Environment Wichmann T	Molecular Imaging of Cardiovascular System Schafers, M	Pharmacokinetics, Biodistribution, Metabolism, and Radiation Dosimetry of [18F]FPEG6-IPQA in Non-Human Primates: A pre-IND Study Tian M
13:30-13:45	Live imaging of TLR2 induction and microglial activation in brain injuries Kriz J	Identifying Amyloid-Positive Controls using PiB PET Price J	Direct Imaging of Ferumoxides using Magnetic Particle Imaging: Instrument Construction, Sensitivity, and 3d Imaging Goodwill P	Optical Imaging in Cardiovascular Disease Kim, D	68Ga-DOTA-Tyr3-Octreotide PET in thyroid cancer patients compared to 18F-FDG-PET and radioiodine-avidity Putzer D
13:45-14:00	In vivo [18F]FAZA PET-Imaging of Inflammation-induced Hypoxia in a Small Animal Model of Rheumatoid Arthritis Fuchs K	Association between microstructural and functional alterations in early AD: a combined DTI-PET study Yakushev	Local control of transgene expression using MRI guided HIFU on a transgenic mouse Deckers R	Fluorescence Reflectance Imaging of Macrophage-Associated Alpha(v)beta(3) Integrin Expression in Atherosclerotic Lesions with RGD-Cy 55 Waldeck J	Diffusion-Weighted MR Imaging (DWI) for Detection of Pelvic Lymph Node Metastases in Correlation with 11C-Cholin-PET/CT - Preliminary Experience Eiber M

14:00-14:15	Molecular imaging of VCAM-1 expression in inflammatory pathologies by using low molecular weight peptides conjugated to a paramagnetic reporter Burtea C	Correlation of Glucose Metabolism and Microglial Activation in Multiple System Atrophy - a PET study Gerhard A	1D and 2D Correlation MR Spectroscopy at 7T: A Feasibility Study on Human BoneMarrow and Soleus Muscle Mountford C	Modulation of atherosclerotic plaque and Matrix Metalloproteinase (MMP) activity by Minocycline: Evaluation by molecular imaging of MMP expression Ohshima S	Targeted biotherapies of cancer assisted by optical imaging Jean-Luc Coll
14:15-14:30	Design and characterization of new MR imaging agents sensitive to myeloperoxidase activity Rodriguez E	In vivo SPECT imaging of vesicular acetylcholine transporter using [123I]-IBVM in neurodegenerative diseases Mazere J		Noninvasive Characterization of Human Carotid Plaques by Imaging of $\alpha\beta3$ Expression with [18F]Galacto-RGD PET/CT Beer A	Image Fusion to Guide Molecular Interventions Wood B

14:30-15:15 **Coffee break**

15:15-16:00 **Plenary Lecture 4: #1669 Imaging Metabolism Kevin Brindle (UK)**

16:00-17:00 **Poster Session, Coffee**

17:10-18:40	Workshop 6 Shaping the Future of Clinical and Preclinical Imaging (Siemens Medical Solutions)	Workshop 7 Molecular MRI of the Cardiovascular System and Novel Techniques for Tissue-based Proteomics based on Maldi Imaging (Bruker)	Workshop 8 68Ga Labeled Radiotracers in Molecular Imaging (Eckert & Ziegler Radiopharma GmbH, GE Healthcare, and Molecular Insight Pharmaceuticals)	Workshop 9 Molecular Imaging Strategies for In vivo Studies: One Kinetic Step ahead with BioSpace Labs Solutions (BioSpace Labs)	Workshop 10 Advances and Applications in Small Animal Multispectral and Multimodal Optical Molecular Imaging (Carestream Molecular Imaging, formerly Kodak Molecular Imaging)
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18:40-20:00 **Free Time**

20:00-11:00 **Evening and Cultural Events**

DAY 3 September 13

	Educational Session 11 Approaches and Methods in MRI Probe Design Co-Chairs: Silvio Aime and Klaas Nikolai	Educational Session 12 Molecular Imaging of the Vascular System Co-Chairs: Michael Schäfers and Mike McConnell	Educational Session 13 Advances in In Vivo Microscopy Co-Chairs: Chen Yuang Dong and Christopher Contag	Educational Session 14 Radio-labeled Peptides in Tumor Imaging and Therapy Co-Chairs: Helmuth Maecke and Uwe Haberkorn	Educational Session 15 Aptamer Imaging Chair: Bertrand Tavitian
7:00-7:30	Molecular MR Imaging Using Paramagnetic and Superparamagnetic Contrast Agents Gustav Strijkers	Scintigraphic Imaging of Atherosclerosis Michael Schäfers MRI of Vascular Inflammation Mike McConnell Fluorescence Imaging of Vascular Disease David Sosnovik	Developing Intravital Multiphoton Microscopy for Biomedical Research Chen Yuang Dong	Target Definition and Development of Receptor Antagonists Jean-Claude Reubi	Aptamers for Molecular Imaging Bertrand Tavitian
7:30-8:00	CEST and PARACEST Agents Enzo Terreno	Targeted microbubbles - molecular imaging agents for intravascular targets Alexander Klivanov	Advances in Microendoscopy Jon Liu	Evaluation of Non-SST Receptor Molecules Marion deJong	Radiolabeling of Oligonucleotides for PET Imaging Frederic Dolle Live-cell SELEX on Whole Living Cells Agnes Cibiel
8:00-8:30	Hyperpolarization approaches for molecular sensing Leif Schroeder		New Dyes and Probes for In Vivo Microscopy Sam Achilefu	Problems of peptide identification: the day after biopanning Uwe Haberkorn	Selection and imaging of Tumor Targeting Aptamers Frederic Duconge
8:30-9:00	Coffee break				

9:00-9:45	Plenary Lecture 5: Of Mice and Man and Imaging Markus Rudin				
9:45-10:30	Coffee break				
	Scientific Session 21 (RSNA) Novel Imaging for Clinical Studies Co-Chairs: Gabriel Kerstin and Jan Grimm	Scientific Session 22 (ISMRM) Advances in MR Probes and Spectroscopic Imaging Co-Chairs: John Waterton and Alexei Bogdanov	Scientific Session 23 Molecular Imaging of Epigenetic Regulation of Gene Expression Co-Chairs: Juri Gelovani and Eric Hostetler	Scientific Session 24 Advances in PET/SPECT Probes Co-Chairs: William Eckelman and Eyal Mishani	Scientific Session 25 Molecular Imaging of Apoptosis Autophagy & Necrosis Co-Chairs: Kevin Brindle and Leonard Hofstra
10:30-10:45	Requirements for Imaging from a Molecular Oncologist's Point on View Walter Stadler	Advances in MR Probes and Spectroscopy Sarah Nelson	Imaging and Drug Targeting of Epigenetic Regulation Eric Hostetler	Indium-111 Labeled Conjugates of Naltrindole: Radioligands for SPECT Visualization of Delta Opioid Receptors Expressed by Small Cell Lung Cancers Lever J	Annexin A5; Imaging Biomarker for Cell Death Leonard Hofstra
10:45-11:00	Imaging Biomarkers Adrian Nunn	A novel technique for screening a library of CEST MRI McMahon M	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	A Library Approach: Synthesis of 11C-Carbonyl-Labelled Irreversible Binding EGFR Inhibitors as Potential Biomarkers for Tumours Using [11C]Carbon Monoxide Aberg O	Molecular MRI of Apoptosis in the Heart within Four Hours of Ischemia Reperfusion Injury Sosnovik D
11:00-11:15	MR Imaging in Clinical Trials Larry Schwartz	A high relaxivity Gd(III)DOTA-DSPE-based liposomal contrast agent for target-specific MRI Nicolay K	[18F]FAHA is a Useful PET Tracer for Determining Inhibition of Central Histone Deacetylase (HDAC) Activity in Rhesus Monkey Hostetler E	Radiopharmaceutical Strategies for the Imaging of Angiogenesis in Cancer Ilovich O	Imaging Acute Cardiac Cell Death using 99mTc-Duramycin Zhao M
11:15-11:30	PET Imaging in Clinical Trials Gustav von Schulthess	In Vivo Evaluation of Tissue Redox Status using Metabolically Responsive MRI Contrast Agents Krishna M	Biodistribution and Radiation Dosimetry of [18F]-FAHA in Non-human Primates: a Pre-IND Study Nishii R	A Submicrogram-Scale PET Imaging of Biomolecules: New Labeling of Lysines via 6pai-Azaelectrocyclization Tanaka K	Imaging Of Intracellular Caspase-3 To Visualize Apoptosis Hermann S
11:30-11:45	Clinical Optical Imaging Michael Seiden	Monitoring Dynamic Calcium Homeostasis Alterations by Cardiac Manganese-Enhanced MRI (MEMRI) with T1 Mapping in a Murine Myocardial Infarction Model Waghorn B	Measurement of hTERT gene silencing induced by specific siRNA using NIS reporter gene Kim S	Silicon-Based One-Step Method for 18 F-Labeling of Peptides and A Theoretic Model for Predicting Hydrolytic Stability Mu L	In Vivo Imaging of HSP60 expression after arterioal... Wick M
11:45-12:00	Panel Discussion	Towards the Multiple Detection of MRI Probes Terreno E	Combination Therapy and Non-invasive Imaging Using a Dual Therapeutic Vector Expressing MDR1 shRNA and Sodium Iodide Symporter (NIS) Cha K	18F-labeled aryltrifluoroborates - products of a one step aqueous labeling of biomolecules with 18F-fluoride upon reaction with arylboronic acids Perrin D	Cell-Permeable 99mTc(CO3)-Labeled Fluorogenic Caspase Substrate for Dual Modality Detection of Apoptosis Li C
12:00-13:00	Lunch Break				
	Scientific Session 26 (SNM) Overcoming Challenges in Clinical Translation of Novel Radiotracers Co-Chairs: Homer Macapinlac and Henry Van Brocklin	Scientific Session 27 Advances in MR Spectroscopy using hyperpolarized agents Co-Chairs: Arend Heerschap and Sarah Nelson	Scientific Session 28 (FASMI) Co-Chairs: Yasuhisa Fujibayashi and Ren-Shyan Liu	Scientific Session 29 Advances in US probes Co-Chairs: Alex Klibanov and Michel Schneider	Scientific Session 30 Molecular Imaging of Signal Transduction & Protein-protein Interactions Co-Chairs: David Piwnicka-Worms and Andreas Jacobs

13:00-13:15	Advocacy & Molecular Imaging - A Challenge for the Field Atcher R	In Vivo Hyperpolarized 13C MR Spectroscopic Imaging in a Rat Model of Brain Tumor Ilwoo Park	Sentinel Node Navigation Surgery in Lung Cancer Using A Novel Receptor Binding Agent (Tc-99m Neomansyl human serum albumin 99m Tc-MSA): First clinical trial and ongoing study Kim S	Advances in Contrast Agents for Ultrasound Molecular and Cellular Imaging Alexander Klibanov	Quantification of dynamic protein complexes in real-time using Renilla luciferase-fragment complementation Stefan E
13:15-13:30	Regulatory challenges for clinical translation of novel radiotracers in North America Schwarz S	Temperature-Controlled Signal Amplification for Detection of Functionalized Xenon Biosensors Leif Schröder	Near-Infrared Fluorescent Imaging of Cathepsin-B Enzyme Activity Reflects Anti-Atherosclerotic Effects Of Statin Both In Mice And Humans Kim J-Y	Molecular ultrasound imaging of vascular markers of inflammation in rodents Bettinger T	Construction of Protein Fragment Complementation Using GFP-like fluorescent protein Dronpa Han YS
13:30-13:45	Regulatory challenges for clinical translation of novel radiotracers in Europe Verbruggen A	Tumor and metastatic cancer cells detection using targeted contrast agent in iMQC and hyperpolarized 3He experiments Rosa T Branca	Targeted Therapeutic Evaluation on Inhibition of Fatty Acid Synthase in a Human Prostate Carcinoma LNCaP/tk-luc Bearing Animal Model with Molecular Imaging W-T Tai	Clinical Applications of Kupffer Cell Targeted Imaging of the Liver Using a New Ultrasound Contrast Agent Perflubutane Microbubble Moriyasu T	GPI anchored avidin- a novel protein reporter for in vivo imaging Lehmann S
13:45-14:00	Regulatory challenges for clinical translation of novel radiotracers in Asia Fujibayashi Y	Hyperpolarized MR Spectroscopy: An In Vivo Marker of PDH Activity Marie A Schroeder	Non-invasive reporter gene imaging for determining the inhibition kinetics of tumorigenesis by actin depolymerizing factor (ADF)/cofilin Lee Y-J	Targeted versus Free Circulating Ultrasound Contrast Agents: Towards New Molecular Imaging Strategies van Wamel A	Non-invasive assessment of E2F-1 mediated transcriptional regulation in vivo Monfared P
14:00-14:15	Predictive PET Imaging for Nucleoside Analog Resistance in Cancer Laing R	Tissue-specific T2 of Hyperpolarized 13C Metabolites Yi-Fen Yen	Development of a radiolabeled peptide derivative targeting matrix metalloproteinase-2 for imaging tumors Hanaoka H	Dual-targeted Contrast Agent for Ultrasonic Assessment of Tumor Angiogenesis in Vivo Willmann J	A double transgenic rat for the in vivo imaging of human prolactin dual promoter gene expression Semprini S
14:15-14:30	Comparison of Bone Scintigraphy and Imaging of $\alpha\beta 3$ Expression with [18F]Galacto-RGD PET for Evaluation of Osseous Metastases in Prostate Cancer Patients Beer A	Hyperpolarized Carbon-Carbon Intermolecular Multiple Quantum Coherences Warren W	MRI Probe to detect enzyme activity using paramagnetic relaxation enhancement Mizukami S	Activatable Perfluorocarbon Ultrasound Probes for Cellular Imaging Matsuura N	Molecular Imaging Captures the Highs and Lows of Endogenous Cdc25A in Mice and MEFs Piwnicka-Worms H
14:30-15:15	Coffee break				
15:15-16:00	Young Investigator Award Session				
16:00-17:00	Poster Session Coffee				
17:10-18:40	Workshop 11 Current GMP Lifecycle and Its Implications in PET: Facilities Design Manufacturing and Documentation				
19:00-23:00	GALA Event and Closing Ceremony				