

Wednesday, 5 September 2012										
ROOM	Wicklow 1		Liffey 2		Wicklow 2		Auditorium			
SESSION	Chemistry of contrast media		What life scientists should know about imaging modalities		Postprocessing and Cross Validation		Biology and Pathology			
07:45 - 08:00	<b>Basics - probes and suitable imaging modalities</b> Fabian Kiessling & Twan Lammers - Aachen, Germany	Basics in pharmacokinetics Twan Lammers, Aachen	<b>Optical Imaging, Ultrasound, Photoacoustics</b> Jorge Ripoll - Heraklion, Greece & Georg Schmitz - Bochum, Germany	Physics of Ultrasound Imaging - Georg Schmitz, Bochum	<b>Modeling and quantification</b> Adriaan Lammertsma - Amsterdam, Netherlands	Basic principles of quantification using PET Marc Huisman, Amsterdam	<b>Cardiovascular</b> René Botnar - London, UK	Introduction to Biology and Treatments - Atherosclerosis Michael McConnell, Stanford		
08:00 - 08:15		Physical limits: Sensitivity, specificity and quantitation - Bernd Pichler, Tuebingen & Fabian Kiessling, Aachen		Advanced microscopy technologies - Udo Birk, Heidelberg		Basic principles of quantification using MR - Markus Rudin, Zuerich		Introduction to MR and PET imaging - Atherosclerosis René Botnar, London		
08:15 - 08:30				Monoclonal Antibodies, Antibody Fragments and Peptides - Nick Devoogdt, Brussels		Basic principles of quantification using optical techniques - Adrian Taruttis, Munich		Introduction to Molecular Contrast Agents and New Devices - Klaas Nicolay, Eindhoven		
08:30 - 08:45				Protein and Oligonucleic Acid Scaffolds - Imaging using Affibody molecules Vladimir Tolmachev, Uppsala		Optical tomography - Jorge Ripoll, Madrid				
08:45 - 09:00	<b>Biologicals</b> Tony Lahoutte - Brussels, Belgium	Reporter gene imaging - Veerle Baekelandt, Leuven	Photoacoustic imaging - Stanislav Emelianov, Austin	Basic principles of tracer kinetic modelling Adriaan Lammertsma, Amsterdam	<b>Systems biology and its link to MI</b> Hermann-Georg Holzhütter - Berlin	Systems Biology of single cells - Hermann-Georg Holzhütter, Berlin				
09:00 - 09:15		coffee break								
09:15 - 09:30		<b>Small molecules</b> Dean Sherry - Dallas, US	Hyperpolarised probes - Damian Tyler, Oxford	<b>MR Fundamentals for Life Scientists</b> Michal Neeman - Rehovot, Israel & Joseph Ackerman - St. Louis US		Introduction to MR Physics - Andrew Fagan, Dublin	<b>Basics of image processing</b> Wiro Niessen - Rotterdam, The Netherlands	Image segmentation: methodology and validation Wiro Niessen - Rotterdam	<b>Cancer</b> Markus Rudin - Zuerich, Switzerland & Robert Gillies - Tampa, US	Image Analysis and Informatics - Robert Gillies, Tampa
09:30 - 09:45			Chelate complexes for imaging - Dean Sherry, Dallas			Introduction to MR Hardware - Dominik von Elverfeldt, Freiburg				Biomarkers - Oncology and Inflammation - Markus Rudin, Zuerich
09:45 - 10:00	Small molecules for nuclear medicine - Danielle Vugts, Amsterdam		Contemporary MR: Pushing the Limits - Joel Garbow, St. Louis		Oncology and Inflammation - Zaver Bhujwalla, Baltimore					
10:00 - 10:15	lunch break									
10:15 - 10:30	lunch break									
10:30 - 10:45	lunch break									
10:45 - 11:00	<b>Particles and polymers</b> Klaas Nicolay - Eindhoven, Netherlands	Basic considerations on the use of particles and polymers - Hisataka Kobayashi, Bethesda	<b>Nuclear Imaging</b> Steven Meikle - Sydney, Australia	Principle of PET and SPECT - Steven Meikle, Sydney	<b>Focus Session on new imaging tools: Cerenkov luminescence imaging</b> Jan Grimm - New York, US	Faster than the speed of light - applications for Cerenkov imaging Jan Grimm, New York	<b>CNS</b> Doris Doudet - Vancouver, Canada	Pathophysiology and imaging of neurodegenerative diseases - Karl Herholz, Manchester		
11:00 - 11:15				Established particles and polymers - Willem Mulder, New York		Detector technologies - Dennis Schaart, Delft		Cerenkov Luminescence Endoscopy: Feasibility and Challenges - Zhen Cheng, Stanford	Neuroplasticity - Anemie van der Linden, Antwerp	
11:15 - 11:30				Advances in particles and polymers - Sanjiv Sam Gambhir, Stanford		Hybrid imaging systems Roger Fulton, Sydney		Cerenkov specific contrast agents - Edward J. Delikatny, Philadelphia	Pathophysiology and imaging of stroke - Mathias Hoehn, Cologne	
11:30 - 11:45						Meet the Experts				
11:45 - 12:00	Chemistry of contrast media		What life scientists should know about imaging modalities		Postprocessing and Cross Validation		Biology and Pathology			
12:00 - 12:15	Opening Ceremony									
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