

TOTAL-BODY PET2022 IN-PERSON – 24TH SEPTEMBER 2022

PRELIMINARY AGENDA

8:00	Welcome desk opens
PRE-CONFERENCE SESSIONS START	
THEME: TOTAL-BODY PET CURRENT STATUS & NEW CONCEPTS FOR DATA ANALYSIS	
9:30 – 11:00	Total-Body PET: commissioning, operations and users experiences Chairs: TBC
<i>15-20 min</i>	Asia's Total-Body PET experience Dr Hongcheng Shi, Shanghai Institute of Medical Imaging, Shanghai, China
<i>15-20 min</i>	Australia's Total-Body PET experience Prof Steven Meikle, The University of Sydney, Australia
<i>15-20 min</i>	Europe's Total-Body PET experience Prof Kuangyu Shi, University of Bern, Switzerland
<i>15-20 min</i>	US's Total-Body PET experience Prof Ramsey Badawi, UC Davis, USA
11:00 – 12:00	Imiomics and whole-body analysis principles Chairs: TBC
<i>30 min</i>	A concept for holistic whole body imaging data analysis, Imiomics Prof Robin Strand, Uppsala University, Sweden
<i>30 min</i>	Radiomics in medical imaging—"how-to" guide TBC
12:00 – 13:00	Lunch and networking
13:00 – 15:00	Systems biology and connectome analysis methods and interpretation Chairs: TBC
<i>30 min</i>	"Network correlation analysis: principles and applications" Prof Tom Freeman, The Janssen Pharmaceutical Companies of Johnson & Johnson, UK
<i>30 min</i>	Fundamentals of systems biology approach and connectome analysis TBC
PRE-CONFERENCE SESSIONS ENDS	
THEME: TOTAL-BODY PET CURRENT STATUS & NEW CONCEPTS FOR DATA ANALYSIS	
15:00 – 17:00	Opening of Total-Body PET 2022 Coffee break/welcome; Posters and Exhibition opens
17:00-17:10	Welcome Moira Whyte (Vice-Principal and Head of the College of Medicine and Veterinary Medicine, University of Edinburgh, UK)
17:10 – 18:10	Opening session Chairs: TBC
<i>20 min</i>	"Total-body PET past, present and future of instrumentation" Stefaan Vandenberghe, Ghent University, Belgium
<i>20 min</i>	"Total-body PET imaging: transforming the role of PET in oncology" Patricia Price, Imperial College London, UK
<i>20 min</i>	"Whole person research: Prospects and Role for MI" Helene Langevin, NCCIH, USA
Welcome reception at McEwan Hall, Edinburgh, UK	

TOTAL-BODY PET2022 IN-PERSON – 25TH SEPTEMBER 2022

PRELIMINARY AGENDA

8:00	Welcome desk re-opens Posters and Exhibition opens
9:20 – 10:00	ESMI-Plenary Lecture Chairs: TBC
<i>30 min</i>	Kinetic modelling challenges in Total-Body PET imaging Adriaan Lammertsma, Amsterdam University Medical Centre, Netherlands
10:00 – 10:30	Coffee break
10:30 – 11:45	Invited Speakers Session 1 Instrumentation Chairs: TBC
<i>15 min</i>	Total-Body PET rodent imaging Roel van Holen, Ghent University, Belgium
<i>15 min</i>	Clinical and research opportunities with PennPET Explorer Joel Karp, University of Pennsylvania, USA
<i>15 min</i>	EXPLORER and Beyond: Challenges and Opportunities for Total-Body Human Imaging Simon Cherry, UC Davis, USA
<i>15 min</i>	First in-vivo positronium imaging of humans with a portable J-PET scanner - on the way to total-body positronium imaging Pawel Moskal, Jagiellonian University, Poland
<i>Scientific presentations to be selected from submitted abstracts</i>	
12:30 – 14:00	Lunch, site visit (Surgeons' Anatomy Museum / Edinburgh Imaging) and posters
<i>Scientific presentations to be selected from submitted abstracts</i>	
15:00 – 16:00	Invited Speakers Session 2 Emerging applications I Chairs: TBC
<i>15 min</i>	Translational oncology and total-body PET imaging to visualize the effects of immunotherapy Elisabeth de Vries, University Medical Centre Groningen, Netherlands
<i>15 min</i>	Musculoskeletal total-Body PET imaging Abhijit Chaudhari, UC Davis, USA
<i>15 min</i>	Estimating risk of drug-drug interactions with PET Nicolas Tournier, INSERM/CEA, Centre Hospitalier Frédéric Joliot, France
16:00 – 16:30	Coffee break
16:30 – 17:30	Cross-engagement session: big data tools, platforms and innovation Chairs: TBC
<i>10 min</i>	The human connectome project: a retrospective on how to collect, analyse and share big imaging datasets Prof David C. Van Essen, Washington University, USA
<i>10 min</i>	Latest advances in deep learning techniques applied to large PET imaging datasets Prof Irene Buvat, Institute Curie Research Center, France
<i>10 min</i>	How super-computers can help mine big datasets: the EPCC experience Prof Mark Parsons, University of Edinburgh, UK
<i>Round table discussions</i>	
17:30 – 18:30	Industry sponsored session
Conference dinner at National Museum of Scotland, Edinburgh, UK	

TOTAL-BODY PET2022 IN-PERSON – 26TH SEPTEMBER 2022

PRELIMINARY AGENDA

8:00 – 9:20	Welcome desk re-opens Posters and Exhibition opens
9:20 – 10:00	Plenary Lecture Chairs: TBC
<i>30 min</i>	Systems biology and noninvasive imaging of atherosclerosis Zahi A. Fayad, Icahn School of Medicine, Mount Sinai, USA
10:00 – 10:30	Coffee break
10:30 – 11:30	Invited Speakers Session 3 Emerging applications II Chairs: TBC
<i>15 min</i>	The heart-brain axis Frank Bengel, Hannover Medical School, Germany
<i>15 min</i>	The gut-brain axis Nicola Pavese, Newcastle University, UK
<i>15 min</i>	Applied systems biology: whole body dynamics in small animals and humans Marcus Hacker, Medical University Vienna, Austria
<i>Scientific presentations to be selected from submitted abstracts</i>	
12:20 – 13:50	Lunch, site visit (Surgeons' Anatomy Museum / Edinburgh Imaging) and posters
<i>Scientific presentations to be selected from submitted abstracts</i>	
14:40 – 15:20	Cross-engagement session: whole and total-body medicine Chairs: TBC
<i>15 min</i>	“Whole-body cardiovascular research: current approaches and future opportunities” Prof David Newby, University of Edinburgh, UK
<i>15 min</i>	“Fast PET: imaging multi-organ inflammation and infection in the intensive care unit?” Prof Andor Glaudemans, University of Groningen, Netherlands
<i>Round table discussions</i>	
15:20 – 16:10	Closing session Chairs: TBC
<i>30 min</i>	“Total-Body PET imaging: current and future applications” Terry Jones, UC Davis, USA
END of Conference	