

# TOTAL-BODY PET2022 IN-PERSON – 24<sup>TH</sup> SEPTEMBER 2022

## PRELIMINARY AGENDA

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

# TOTAL-BODY PET2022 IN-PERSON – 25<sup>TH</sup> SEPTEMBER 2022

## PRELIMINARY AGENDA

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

# TOTAL-BODY PET2022 IN-PERSON – 26<sup>TH</sup> SEPTEMBER 2022

## PRELIMINARY AGENDA

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