UK PET CHEMISTRY MEETING

4th May 2016

Final Program

Wednesday 4th May 2016	
09:00 am to 10:00 am	Registration & Poster Set-Up Tea / Coffee
10:00 am to 10:05 am	**Welcome** *Prof Edwin Van Beek, University of Edinburgh*
Session 1 & 2 **10:05am-11:30am** 6 x 10min talks (2 min qs)	**Fluorine-18 & Carbon-11** **Chairs: Sajinder Luthra & Franklin Aigbirhio**
T01	[^{18}F]fluorosulfate for PET imaging of sodium-iodide symporter expression *Alex Khoshnevisan, Kings College London*
T02	Fully Automated SPE Purified Radiosynthesis of [^{18}F]GE-179 on FASTlab Using a New More Stable Precursor *Anna Kirjavainen, Kings College London*
T03	Development of B-F…P pincer containing ^{18}F-fluorine radiolabelled TPP derivatives for mitochondrial imaging by positron emission tomography (PET) *Juozas Domarkas, University of Hull*
T04	Last Step ^{18}F-Labelling of Peptides in Aqueous Condition Catalyzed by Fluorinase *Qingzhi Zhang, University of St Andrews*
T05	The Use of Aryl Boronic Ester Precursors in Providing Facile Access towards ^{123}I and ^{18}F Radiolabelled Targets for SPECT and PET Imaging *Thomas Wilson, University of Oxford*
T06	From [^{11}C]CO_2 to [^{11}C]Amides and [^{11}C]Ureas: A Rapid One-Pot Mitsunobu Reaction *Salvatore Bongarzone, Kings College London*
11:30 am to 11:50am	Coffee & Posters
Session 3 **11:50am-12:50pm**	
11:50am to 12:50pm	***POSTER PRESENTATIONS – 2 min pitches*** *Chairs: Sally Pimlott & Christophe Lucatelli*

12:50 pm to 2:00pm	Lunch & Poster Session **Poster presenters please stand by your posters during this session**
2:00pm to 2:30pm	**Invited Talk: Cardiovascular Calcification: Chalk and Cheese** *Prof David Newby, University of Edinburgh* *Chair: John Clark*
Session 4 & 5 **2:30pm -4:05pm** 7x 10min talks (2 min qs)	**Other Positron Emitters & New Technology** **Chairs: Tony Gee & Gavin Brown**
T07	Improved tris(hydroxypyridinone) Chelators for ^{68}Ga Imaging *Cinzia Imberti, Kings College London*
T08	Scaling-down of Zirconium-89 Antibody Radiolabeling Reactions *Stephen Paisey, Cardiff University*
T09	Monolith-based microfluidic device for ^{68}Ga processing and direct radiolabelling *Ping He, University of Hull*
T10	One step kit labelling for PET imaging of prostate cancer using ^{68}Ga-tris(hydroxypyridinone)-PSMA, *Jennifer Young, Kings College London*
T11	Copper-64 PET imaging of CXCR4: optimised small molecule bis-tetraazamacrocyclic chemokine receptor antagonists *Benjamin Burke, University of Hull*
T12	Extremely rapid, kit-based biomolecule labelling and molecular imaging with gallium-68: tris(hydroxypyridinone) chelators, *Michelle Mahindra*, *Kings College London*
T13	A New GMP-compatible Radiolabelling Method Enables Long Term in vivo PET Tracking of Preformed Liposomal Nanomedicines *Rafael T.M. De Rosales, Kings College London*
4:05pm to 4:20pm	Coffee & Posters
Session 6 **4:20pm-5:00pm**	
4:20 pm to 4:50 pm	**Invited Talk:** *Prof Paul Matthews, Imperial College London* *Chair: Mike Carroll*
4:50 pm to 5:00 pm	***Summary, Prize Awards and Goodbye***

Posters

Fluorine-18

P01 The first automated synthesis of N-succinimidyl 4-[^{18}F]fluorobenzoate ([^{18}F]SFB) on the Eckert & Zeigler Modular Lab, *Amit Mahindra, Newcastle University*

P02 Performance Nucleophilic ^{18}F-FluoroDOPA synthesis with TRASIS ALL in one system one year on, *Stephen Paisey, Cardiff University*

P03 Development of $\alpha_v\beta_6$–targeted Cyclic RXD Peptides for Positron Emission Tomography Imaging of Idiopathic Pulmonary Fibrosis, *James Thompson, University of Hull*

P04 Microfluidic devices for electro-trapping of [^{18}F]fluoride from [^{18}O]water and radiosynthesis of [^{18}F]FLT, *Ping He, University of Hull*

P05 Radiochemical Synthesis of ^{18}F-ProTides for PET, *Alessandra Cavaliere, Cardiff University*

P06 Development of an Automated F-18 Radiosynthesis of 5-Aminolevulinic Acid Amides, *Amaia Carrascal Minino, University of Manchester*

P07 Preparation of Fluorine-18 Radiolabelled Thia-Fatty Acid Tracers for Imaging Cardiac Metabolism by Positron Emission Tomography (PET), *Zainab Al-Ali, University of Hull*

P08 Optimising the specific activity of [^{18}F]sodium tetrafluoroborate, *Alex Khoshnevisan, Kings College London*

Carbon-11

P09 Improved automated radiosynthesis and purification of the organic anion-transporting polypeptide (OATP) substrate [^{11}C]rosuvastatin by a captive solvent synthesis method, *Michael Fairclough, University of Manchester*

Other Positron Emitters

P10 The Development of a Plant Virus Capsid as a ^{68}Ga PET Imaging Agent, *Rebecca Ullah, University of Hull*

P11 Rapid Chelation of Gallium-68 at Neutral pH, *Thomas Price, University of Hull*

P12 Gallium-68 PET imaging of CXCR4 expression: optimised small molecule azamacrocyclic chemokine receptor antagonists, *Rhiannon Lee, University of Hull*

P13 Design Synthesis and Characterisation of New Multimodal Composites for PET Imaging Based on Fe_3O_4 Nanoparticles Thiosemicarbazones and DFO, *Marina Lledos, University of Bath*

P14 Synthesis Of Multimodal PET And SPECT Imaging Agents - Towards Hypoxia Selective Inhibitors, *Sophia Sarpaki, University of Bath*

P15 Development of ^{89}Zr Chelators for Use in Positron Emission Tomography (PET) Imaging, *Boon-Uma Jowanaridhi, University of Hull*

New Technology

P16 Gallium-68 Radiolabelling of Macrocyclic Chelators Using Microreactor Technology for Use in Positron Emission Tomography Imaging, *Hayley Bignell, University of Hull*

P17 A New Solid Phase Radioiodination Method for the Preparation of PET and SPECT Imaging Agents, *Nikki Sloan, University of Glasgow*

P18 Multimodal Bacterial Detection Probes, *Nina Svensen, Edinburgh Molecular Imaging Ltd*