

Radionuclide production in the UK workshop

This meeting, hosted by the National Physical Laboratory (NPL) and the Royal Society of Chemistry (RSC) will explore the current and potential future status of radionuclide production for nuclear medicine and other applications.

Location: National Physical Laboratory, Hampton Road, Teddington, TW11 0LW

Date: Wednesday 16 October 2024

Time: 09:00 – 19:00 (UTC+1)

Agenda

09:00 – 09:30	Registration and Refreshments
Session 1	
09:30 – 09:50	Welcome and overview of Nuclear Medicine Metrology at NPL. Louise Natrajan, Royal Society of Chemistry Michael Adeogun, National Physical Laboratory
09:50 – 10:20	The UK Medical Radionuclide Innovation Programme. Molly Dickinson and Matt Green, Department of Energy Security and Net Zero
10:20 – 10:40	Radionuclides for Health UK. Jennifer Young, Kings College London
10:40 – 11:00	Advanced Radioisotope Technology for Health Utility Reactor (ARTHUR) Programme. Luci Gleeson, Welsh Government Office for Science
11:00 – 11:30	Break and posters

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Session 2	
11:30 – 11:50	Development of UK Astatine-211 Production Capability. Jane Sosabowski, Queen Mary University London
11:50 – 12:10	Developing Iodine-124 Supply and Radiopharmaceutical Research Opportunities in the UK. Stephen Archibald, Kings College London
12:10 – 12:30	Laser plasma accelerators as a new path for radionuclide production. Dino Jaroszynski, University of Strathclyde
12:30 – 12:50	End-to-End Accelerator Production of Actinium-225 from Radium-226. Seán Collins, National Physical Laboratory
12:50 – 14:00	Lunch and posters / tours
Session 3	
14:00 – 14:20	Medical Radionuclide Production in the UK: A Drug Discovery Perspective. Juliana Maynard, Medicine Discovery Catapult
14:20 – 14:40	Extraction of radionuclides for Targeted Radionuclide Therapy from UK Legacy Material. Howard Greenwood, National Nuclear Laboratory
14:40 – 15:00	Nuclear Medicine trends, supply chain and Urenco role. Adriana Ceruso, Urenco
15:00 – 15:30	Break and posters
Session 4	
15:30 – 15:50	Title TBC Samuel Rawlinson, Cyclife Aquila Nuclear

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15:50 – 16:10	Steps towards the Optimised Production of Theragnostic Isotopes of Copper and Scandium (OPTICS), including in nanoparticle form. Fred Currell, University of Manchester
16:10 – 16:30	Medical Isotope Production at Birmingham, Present and Future. Dawid Hampel, University of Birmingham
16:30 – 19:00	Final discussion and drinks reception



Poster presentations

1	Medical radionuclide production with deuterium-tritium fusion technology. Lee J. Evitts, UKAEA
2	Synthesis and Radiochemistry of Novel Azamacrocyclic Chelators for the Stable Coordination of ^{161}Tb. Christina Siakalli, Imperial College London
3	On the development of separation methods for the purification of Ac-225 using TK221 and TK222 Resins. Steffen Happel, TrisKem International
4	On the separation of Terbium from elevated amounts of Gadolinium using TK221 and TK211/2 Resins. Steffen Happel, TrisKem International
5	Production of Iodine-131 Using a compact fusion reactor based on Multi-State Fusion. Tom Haywood, Astral Systems
6	UK Domestic Production of Therapeutic Isotopes Via Fusion. Tom Haywood, Astral Systems

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7	<p>Radioisotopes used at the Institute of Cancer Research, London: an overview.</p> <p>Chiara Da Pieve, Institute of Cancer Research</p>
8	<p>Hot Cells to House a Lead-212 Generator for Integration into a Hospital Environment.</p> <p>Samuel Rawlinson, Cyclife Aquila Nuclear</p>

Exhibitors

<p>Cyclife Aquila Nuclear</p> 	<p>TrisKem International</p> 
<p>LabLogic</p> 	<p>Mirion Technologies</p> 
<p>Siemens Healthineers</p> 	<p>URENCO Isotopes</p> 