

**Metals in Engineering Biology**  
**An E3B BBSRC NIBB & ELEMENTAL Hub Meeting**  
**Radisson Blu Hotel, Durham University**

**Tuesday 9<sup>th</sup> July 2024**

**10:30 Arrival & Registration (Auger Suite), Refreshments & Poster Set-Up**

**11:00 Welcome/Housekeeping**

**11:05 'Metalation Overview/E3B BBSRC NIBB'**

*Peter Chivers, Durham University*

**11:20 'ELEMENTAL - A BBSRC Engineering Biology Mission Hub'**

*Martin Warren, University of Kent/Quadram Institute*

**11:45 'Enabling a circular economy for metals'**

*Julia Stegemann, University College London*

**12:15 'An introduction to Johnson Matthey and our interests in the biorecovery of PGMs'**

*Sam Douglas, Johnson Matthey*

**12:30 Lunch & Networking & Poster Set-Up**

**13:30 'Development of an arsenite biosensor'**

*Jo Santini, University College London*

**14:00 'f-element luminescence spectroscopy in biological settings'**

*Louise Natrajan, The University of Manchester*

**14:30 'Discovery of O<sub>2</sub> protected [FeFe]-hydrogenases and their application to sustainable synthesis'**

*Simone Morra, University of Nottingham*

**14:45 'The importance of ingredients for metal control within consumer goods'**

*Linsey Fuller, Procter & Gamble*

**15:00 Refreshment Break & Room Key Check-In (from Registration Desk)**

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**16:00 'Bacterial metal handling systems – lessons learnt from human pathogens'**

*Jen Cavet, The University of Manchester*

**16:30 'Genetic engineering of acidophiles: progress and perspectives'**

*Ana Santos, Natural History Museum*

**17:00 'Massively parallel transposon mutagenesis as a tool in metallobiology research'**

*Mark Webber, Quadram Institute*

**17:30 'P3EB Hub - Preventing plastic pollution with engineering biology'**

*Lu Shin Wong, The University of Manchester*

**17:40 Free time**

**18:30 Dinner, Posters & Networking**

**Wednesday 10<sup>th</sup> July 2024**

**08:30 Refreshments available on arrival**

**09:00 'Trace metals and recombinant biotherapeutic protein bioprocessing in Chinese Hamster Ovary cells'**

*Mark Smales, University of Kent/NIBRT*

**09:30 'Biotechnology - from laboratory bench to commercialisation'**

*Robert Holt, CPI (Centre for Process Innovation)*

**10:00 'BBSRC Support for Industrial Biotechnology'**

*Colin Miles, BBSRC, Head of Sector for Bioscience for Advanced Manufacturing and Clean Growth*

**10:15 Refreshment Break**

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**10:30 'Blueprints to engineer biological protein metalation with different elements'**

*Arthur Glasfeld, Durham University*

**11:00 'Developing ferritins for biotechnology applications'**

*Nick Le Brun, University of East Anglia*

**11:30 'Paramagnetic spectroscopic approaches to identify and characterise metals and their fate'**

*Fraser MacMillan, University of East Anglia*

**12:00 'Biogenic iron in limpet tooth, the strongest known biomaterial'**

*Robin Rumney, University of Portsmouth*

**12:15 'Conserving the position of rare codons for heterologous enzyme production'**

*Ciaran Kelly, Northumbria University*

**12:30 Lunch & Networking & Poster Removal**

**13:30 'Copper responses in plants - finding the Goldilocks Zone'**

*Keith Lindsey, Durham University*

**14:00 'Developing a plant-based Platinum Group Metal recovery system'**

*Paulina Dani, University of York*

**14:15 'Biotechnological recovery of Platinum Group Metals as nanocatalysts'**

*Chris Egan Morriss, The University of Manchester*

**14:30 'Establishing metal recovery technologies in plant-based systems'**

*Alistair Droop, University of York*

**15:00 'Care-ful Synthesis: How RRI can help lead to better science and better policies'**

*Joy Zhang, University of Kent*

**15:30 ELEMENTAL funding opportunities**

*Martin Warren, University of Kent/Quadram Institute*

**15:45 Meeting Close**