



# 13th September 2023

# TranslationalResearch Manchester 2023

EARLY CAREER RESEARCHERS EVENT
KICKSTART YOUR TRANSLATIONAL RESEARCH CAREER

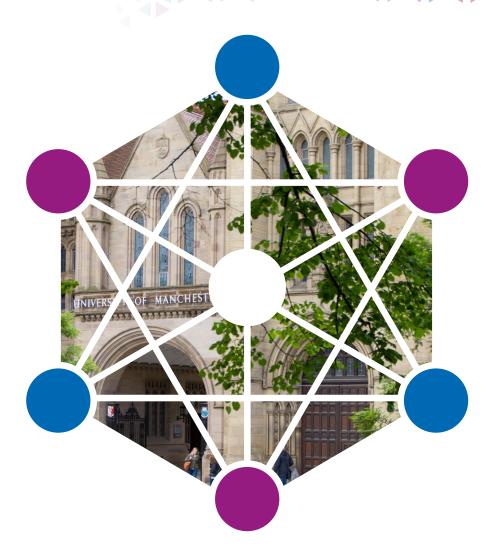
X @Translation\_Mcr

**#TranslationMCR23** 

CORE TECHNOLOGY FACILITY, 46 GRAFTON ST, MANCHESTER M13 9WU

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# Foreword from Professor Luke Georghiou

Deputy President and Deputy Vice-Chancellor PI of the Wellcome Translational Partnership Award (TPA)



We have a duty to society to ensure that our excellent research is applied for benefit to health, well-being and the economy. Successful translational research is achieved by connecting people with complementary skills and assets at all stages of the process from early discovery to clinical implementation.

Supported by the Translational Partnership Award (TPA) from Wellcome, Translation Manchester was established to help overcome the obstacles to conducting translational research by bringing together a network of support, facilities and expertise to make the pathway to translation quicker and easier. This event highlights through career journeys insights, information sessions, and networking sessions the steps required and the support available for ECRs to kickstart their translational research careers. We hope that you enjoy this event and look forward to hearing how we can support your research needs now and in the future.

# **Translation** Manchester Supporting translational research



### How do you support researchers in Manchester?

The University of Manchester was one of the first institutions to receive a Wellcome Translational Partnership Award (TPA) back in 2018. The 6 year award amounts to £3.6m of funding to build better links between science. technology and innovation by removing barriers between disciplines and making it easier to take the first translational step. The TPA is delivered through Translation Manchester which launched in February 2019.

Our Translational Research Managers (TRMs), Dr Alessandro Faroni and Dr Fiona Foster manage the TPA award and Translation Manchester. The TRMs support translational researchers and projects across all stages of the Translational Research Pathway.

## We help researchers by:

- Forging new and productive connections between UoM researchers and NHS clinical staff
- Raising awareness and increasing engagement in translational research across UoM and associated Greater Manchester NHS Trusts
- Supporting investigators, enabling them to overcome hurdles and bottlenecks along their translational research journey

Our TRMs manage two translational funding schemes 'Confidence for Translation (C4T)' and 'Access to Expertise (A2E)'. These funding schemes provide pump priming funding to address a specific bottleneck or hurdle within an ongoing transitional research project.

The TRMs also manage the Informatics Training Scheme, which provides

researchers with an opportunity to gain skills in the areas of health informatics, bioinformatics and biostatistics that can be applied to their translational research projects.

## At what stage in their research project should a researcher approach you for support?

Researchers who are experiencing a bottleneck or hurdle that is preventing them from progressing their translational research project should approach Translation Manchester for support. This could be anything from needing a connection to clinical staff in the NHS or help finding the right person to collaborate with.

Our TRMs also support translational funding applications and access to patient samples and data. Researchers who want to engage in transitional research and need advice on how to do so should also contact our TRMs.

**Translational Stages Supported:** 























# **Meet the Translation Manchester Team**



Professor Luke
Georghiou
Deputy President
and Deputy Vice-Chancellor;
TPA Principal Investigator



Professor Nigel Hooper
Associate Vice-President for
Research; TPA Co-Investigator



**Dr Lloyd Gregory**Academic Partnerships Director at
Health Innovation Manchester;
TPA Operational Lead



Dr Natalie Theodoulou

Research Development and
Innovation Manager;
TPA Operational Lead



**Dr Alessandro Faroni** Translational Research Manager TPA Programme Manager



**Dr Fiona Foster**Translational Research Manager
TPA Programme Manager



**Dr Lijing Lin**Translational Research
Bioinformatician



Iqra Habib
Translational Research
Support Officer

# **The Translation Manchester Research Network**

Translational research relies on collaborations and multidisciplinary working, but in organisations as large as the University of Manchester, finding the support you need at the right time can sometimes be tricky. We are extremely fortunate that there are a number of groups and organisations that span the University and the Greater Manchester NHS Trusts, which exist to facilitate translational research.

In an attempt to bring this infrastructure together into one, easily accessible space, Translation Manchester has created the 'Translation Manchester Research Network (TMRN)' as your one-stop shop for all your research support needs. Spanning funding to biobanks, statistics to trial design- there is something for every type and stage of research project.

The following pages detail how each network partner can support researchers and outlines when and how to contact them to utilise their services.

We hope this initiative will help direct you to the right people at the right time so we can work together to enable Manchester's translational research projects to progress towards innovations and treatments that impact healthcare locally, nationally and internationally.

The pathway indicator, at the bottom of each page, shows which stages of the translational pathway the partner is able to support. If you're interested in joining the network, or think there's a gap that needs filling, get in touch- we are always looking to add new partners to the network.

★ translation@manchester.ac.uk

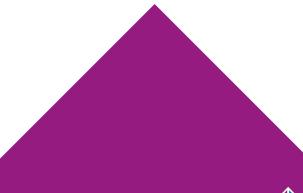
"We already have major research infrastructure in the BRC and CRF and a multitude of support systems for producing high quality research. We now need a co-ordinated approach to successfully deliver research for patient benefit."

Professor Graham Lord
Vice-President and Dean of the
Faculty of Biology, Medicine
and Health at The
University of
Manchester

Scan this code or follow this link to view or download the Translation Manchester Research Network booklet and learn about all its partners



# **Current Initiatives**



TranslationManchester
Research Connections Tool



Translation Manchester is developing the Research Connections Tool, a web application that will help connect colleagues based on areas of expertise. It will work as a "dating app" allowing you to search for expertise based on keywords. You will be able to find researchers across the University as well as research support and technical staff. You will also be able to connect to clinicians in our partner NHS trusts to give multi-disciplinary dimension and clinical relevance to your translational research.

In the next few months we will be running focus groups to gather feedback on the tool and its features.

# TranslationManchester Research Skills Training



In the next few months we will be opening the course to a test cohort to gather feedback on its content.

mindset, securing translational funding,

collaborating with industry, creating

impact from healthcare research and

much more.

Get involved in testing our newest tools





SCAN THIS CODE OR FOLLOW THIS LINK TO REGISTER YOUR INTEREST

If you wish to be involved in either (or both) these initiatives please follow the instructions above and provide your details.

If you have any question on these initiatives get in touch with us via email:

translation@manchester.ac.uk

# Translational Research at Manchester 2023



Translational Research at Manchester 2023 is an in-person event offering a fantastic opportunity for early career researchers interested in translational research.

There will be also a networking session with lunch and a poster competition (with prizes!) for Early Career Researchers and we will be announcing the winners of our conference support grants.

This event will be held at Core Technology Facility, 46 Grafton St, Manchester M13 9WU.

For details on each of the sessions, including speaker names and talk titles, please refer to the following pages.

## Programme at a glance

WHEN	WHAT
9.30 - 9:55	Registration and coffee
9:55 – 10:45	TRANSLATIONAL PARTNERSHIP AWARD INTRODUCTION AND OPENING KEYNOTE Chair: Prof Nigel Hooper, Associate Vice-President for Research at the University of Manchester Opening Keynote address: Prof Petra Hamerlik, Chair of Translational Neuro Oncology
10.45 - 11:15	SESSION 1: TRANSLATIONAL RESEARCH FUNDING & GENERATING IMPACT FROM TRANSLATIONAL RESEARCH Chair: Laura Breen, Research Development & Impact Manager
11.15 - 11:45	Coffee Break
11.45 - 12:15	SESSION 2: TEAMSBUILDDREAMS: ENHANCING CULTURE AND RESEARCH THROUGH INTERDISCIPLINARY, COLLABORATIVE WAYS OF WORKING.  Chairs: Nicola Telfer and Karon Mee
12.15 - 13:30	Lunch and Poster Competition for Early Career Researchers
13.30 - 14:00	SESSION 3: BENEFITS OF WORKING WITH INDUSTRY TO TRANSLATE RESEARCH Chair: Chris Hepworth, Business Engagement manager
14:00 - 14:20	SESSION 4: SUPPORTING THE NEXT STEPS IN YOUR TRANSLATIONAL PATHWAY Chair: Lloyd Gregory, Academic Partnerships Director, Health Innovation Manchester
14:20 - 14:50	CLOSING KEYNOTE SESSION Chair: Professor Luke Georghiou, Deputy President and Deputy Vice- Chancellor at the University of Manchester  Closing Keynote address: Professor Rachel Lennon, Professor of Nephrology and Consultant Paediatric Nephrologist
14:50 - 15:00	CLOSING REMARKS AND PRIZE GIVING
15:00 - 15:30	Afternoon tea & Networking

# **Full Programme - Morning**



TRANSLATIONAL PARTNERSHIP AWARD INTRODUCTION AND OPENING KEYNOTE  Chair: Prof Nigel Hooper, Associate Vice-President for Research at the University of			
Manchester			
9:55 - 10:00	WELCOME FROM THE CHAIR		
	Translation Manchester and the Translational Partnership Award		
10:00 - 10:15	<b>Prof Nigel Hooper</b> , Associate Vice-President for Research at the University of Manchester		
	OPENING KEYNOTE ADDRESS		
10:15 - 10:40	Drug discovery and brain cancer: the industry perspective of (a former) academic		
	Prof Petra Hamerlik, Chair of Translational Neuro Oncology		
10:40 - 10:45	Questions & Answers		
	TRANSLATIONAL RESEARCH FUNDING & GENERATING IMPACT FROM TRANSLATIONAL RESEARCH		
SESSION 1	Chair: Laura Breen, Research Development & Impact Manager		
	All you need to know about Research Impact (in 5 minutes)		
10:45 - 10:50	Emma Hatton, Impact Officer		
10:50 - 11:00	Upstream, downstream and everything in between		
10.50 - 11.00	<b>Prof Jo Dumville</b> , Professor of Applied Health Research		
11:00 - 11:10	Pathways to Translational Funding		
11.00 - 11.10	<b>Dr Sam Butterworth</b> , Senior Lecturer of Medicinal Chemistry		
11:10 - 11:15	Questions & Answers		

Talks and presentations will be held in The Dalton Room, poster exibition in The Innovation Suite. Refreshments to be served in the main foyer area.



	SESSION 2	TEAMS BUILD DREAMS Chairs: Nicola Telfer and Karon Mee
11.45 - 12:15	Enhancing culture and research through interdisciplinary, collaborative ways of working	
	This session will focus on the University of Manchester's <b>Team Research Programme (TRP)</b> : progress and successes to date and next steps. We will share our co-created definition of Team Research; screen our new animated video; and present results from our community workshops.	
	There will be audience participation so be ready to get involved!  The TRP is part of the UoM institution-wide Research Culture Improvement Portfolio funded by Research England, and is supported by The Christabel Pankhurst Institute and the Manchester NIHR Biomedical Research Centre.	



#### **LUNCH & ECR POSTER COMPETITION**







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# **Full Programme - Afternoon**

SESSION 3	BENEFITS OF WORKING WITH INDUSTRY TO TRANSLATE RESEARCH
323310143	Chair: Chris Hepworth, Business Engagement Manager
	Bridging the gap between academia and industry: how we can work
13:30 - 13.35	together
	Chris Hepworth, Business Engagement Manager
	An Academic view of working with industry
13:35 - 13.45	<b>Dr Richard Unwin</b> , Senior Lecturer in Mass Spectrometry and Proteomics
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
42.45 42.55	Generating commercial impact from your research; the what, why and how
13:45 - 13.55	
	<b>Prof Aline Miller</b> , Professor of Biomolecular Engineering
13.55 - 14:00	Questions and Answers
	SUPPORTING THE NEXT STEPS IN YOUR TRANSLATIONAL PATHWAY
SESSION 4	Chair: Dr Lloyd Gregory
	Smiles and Strategies: Keeping antibiotics working via policy and
14:00 - 14:10	practice
	<b>Dr Wendy Thompson</b> , NIHR Clinical Lecturer in Primary Dental Care
	Commercialisation & IP - what support does UMIF offer?
14:10 - 14:20	Joanna Denbigh, University of Manchester Innovation Factory
CLOSING KEYN	OTE, FINAL REMARKS AND PRIZE GIVING
Chair: Professo	r Luke Georghiou, Deputy President and Deputy Vice-Chancellor at the
University of Ma	nchester
	CLOSING KEYNOTE ADDRESS
44.00 44.17	Towards matrix therapies in the Alport Research Hub
14:20 - 14:45	<b>Professor Rachel Lennon</b> , Professor of Nephrology and Consultant Paediatric Nephrologist
14:45 - 14:50	Questions and Answers

Talks and presentations will be held in The Dalton Room, poster exibition in The Innovation Suite. Refreshments to be served in the main foyer area.

Professor Luke Georghiou, Deputy President and Deputy Vice-

**CLOSING REMARKS AND PRIZE GIVING** 

Chancellor at the University of Manchester

14:50 - 15:00



#### **AFTERNOON TEA & NETWORKING**

This afternoon tea session will formally close the event and will provide another opportunity to network with other researchers and clinicians with an interest in translation across different disciplines.

#### The winners of the following prizes will be announced:

- Best poster and runner up (PhDs and Post-Docs/Fellows categories)
- Best poster: People's choice
- ECR Conference Support Grant Winner 2023



EVENT FEEDBACK
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# **Opening Keynote Session**



## **Professor Petra Hamerlik**

Chair of Translational Neuro-Oncology

Division of Cancer Sciences

#### **TALK TITLE**

Drug discovery and brain cancer: the industry perspective of (a former) academic

#### **BIOGRAPHY**

Petra Hamerlik is an accomplished researcher in pharmacology and brain cancer research. She has worked as a Group Leader at the Danish Cancer Society and an Associate Professor at the University of Copenhagen (2012-2020).

Petra has received several prestigious awards, including the DFF Young Elite Scientist, Hallas-Møller Investigator, and Danish Cancer Society Young Researcher Awards.

These awards enabled her to establish a research line primarily focused on improving our understanding of DNA damage response (DDR) regulation and its impact on genomic instability of glioblastoma, a deadly form of brain cancer. In August 2020, Petra joined AstraZeneca as a Principal Scientist in Early Oncology to lead the DDRi drug discovery programs for brain tumours.

In September 2022, Petra was recruited to University of Manchester as the Inaugural Brain Tumour Charity Chair of Translational Neuro-Oncology. Her academic work is focused on identifying novel treatments for glioblastoma and an early detection of intracranial tumour.

# **Closing Keynote Session**



## **Professor Rachel Lennon**

Professor of Nephrology and Honorary Consultant Paediatric Nephrologist.

Director of the Wellcome Centre for Cell-Matrix Research.

Director of the Stoneygate and Kidney Research UK Alport Research Hub

#### **TALK TITLE**

Towards matrix therapies in the Alport Research Hub

#### **BIOGRAPHY**

Rachel graduated from Nottingham University
Medical School in 1994. She completed clinical
training in paediatric nephrology and began her
research training in 2004 with a Wellcome Research
Training Fellowship. She was then appointed to an
NIHR Clinical Lectureship in 2007 and in 2008 she
began working at the Wellcome Centre for CellMatrix Research in Manchester.

In 2010 she was awarded a Wellcome Intermediate Clinical Fellowship to establish her research group

followed by a Wellcome Senior Research Fellowship in 2016.

Rachel's research is focused on understanding specialised structures called basement membranes, which are affected in many types of kidney disease including Alport syndrome.

Rachel is Director of the Wellcome Centre for Cell-Matrix Research in Manchester and leads the newly established Stoneygate and Kidney Research UK Alport Research Hub. She combines her academic work with clinical duties as a Consultant Paediatric Nephrologist at the Royal Manchester Children's Hospital.

## **Poster Presentations**

- Tadpong Tantipanjaporn, Andrew Povey, Holly Shiels, and Martie van Tongeren High Levels of Heat Stress among Sugarcane Farmers and Workers in Thailand
- 2 Lucy Roberts, Graham Coutts, Craig Smith, Kieron South, Stuart Allan caADAMTS13 demonstrates greater efficacy and safety as a stroke thrombolytic in platelet-rich thrombi than rtPA and Tenecteplase
- 3 Lauren Floyd, Sandip Mitra, Christine Rowland, Ajay Dhaygude Patient reported outcomes in ANCA associated vasculitis; challenges and prospects for the future
- 4 Tanuj Puri, Marcel van Herk, Eliana Vasquez osorio, Jane Shortall, Andrew P. Morris, Sarah Kerns, David Azria, Marie-Pierre Farcy-Jacquet, Jenny Chang-Claude, Alison Dunning, Maarten Lambrecht, Barbara Avuzzi, Dirk de Ruysscher, Petra Seibold, Elena Sperk, Christopher Talbot, Ana Vega, Liv Veldeman, Adam Webb, Tiziana Rancati, Barry Rosenstein, Catharine West, Ananya Choudhury, Peter Hoskin and Alan McWilliam

  Assessing Interaction between Toxicity Outcomes and Dose Surface Maps for Bladder and Rectum in Prostate Cancer Patients
- Katherine Dodd, Jon Sussman, Madhvi Menon
   Widespread Immune Dysfunction in Refractory Myasthenia Gravis
- Jane Shortall, Eliana Vasquez Osorio, Andrew Green, David Wong, Tanuj Puri, Peter Hoskin, Ananya Choudhury, Marcel van Herk, Alan McWilliam The value of post Radiotherapy PSA dynamics for prostate cancer risk stratification

models

- 7 Sasha Philbert, Stephanie Church, Richard D. Unwin, Federico Roncaroli, David Eisner, Garth J. S. Cooper Can sodium be used as a biomarker for vascular dementia? Evidence for widespread disturbed brain sodium homeostasis
- 8 Osarenmwindamwen Osatohanmwen,
  Alharbi M. Ahmad, Pamela J. Vallely, Paul
  Klapper
  Development of a Novel Multiplex Polymerase Chain Reaction (mPCR) for HCMV
  glycoprotein genotyping
- 9 Lucy Tindale, Hannah Percival, Muhammad Babur, Keith Brennan and Katie Finegan Enhanced EDAR signalling alters the immune profile during skin tumourigenesis to encourage development of aggressive squamous tumours
- 10 Michael Dubec, John Gaffney, David L
  Buckley, Michael Berks, Ross Little, Anubhav
  Datta, Damien J McHugh, Cynthia L Eccles,
  Marcel van Herk, Ananya Choudhury, Julian
  Matthews, Geoff JM Parker, Andrew McPartlin, James PB O'Connor
  First-in-human technique translation of oxygen-enhanced MRI to an MR Linac system
- 11 Elif Evren, Costas Demonacos, Katie Finegan Targeting ERK5 Enhances the DNA Damage Response to Radiotherapy

- 12 Sorayut Chattrakarn, Grace Mallett, Helen Parker, Mang Xu, Lu Qiao, Wei Zhang, Neus Lozano, Kostas Kostarelos and Andrew S. MacDonald Graphene oxide: a nanoscale delivery platform for enhancing targeted cancer immunotherapy
- Sevim Gurler, Oliver Wagstaff, Lili Dimitrova, Fuhui Chen, Robert Pedley, William Weston, Ian Donaldson, Brian A. Telfer, David Novo, Kyriaki Pavlou, George Taylor, Yaqing Ou, Kaye J. Williams, Andrew Gilmore, Keith Brennan, Ahmet Ucar

  HER2 overexpression induces breast tumorigenesis in a non-cell autonomous manner by inducing oxidative stress in the tissue microenvironment
- 14 Jenny King, Dr James Wingfield Digby,
  Shannon Galgani, Rachel Dockry, Kimberley
  Holt, Joanne Mitchell, Dr Paul Marsden, Prof.
  Jaclyn Smith
  Patients with IPF demonstrate hyper-responsiveness and hypersensitivity to a
  range of tussive agents in a different pattern
  to R/UCC patients
- 15 Jahanara Miah, Rathi Ravindrarajah and
  Evan Kontopantelis
  Evaluation of an App Recommendation Platform for University Students Seeking Mental
  Health Support: A Mixed-Methods Approach
- 16 Tanseer Ahmed, Bielka Carvajal, Prof. Kashif Shafique, Prof. Dawn Dowding, Dr. Alison Cooke
  High rates of neonatal mortality and its interventions available in low-and-middle income countries: A Systematic Review'

## **Poster Presentations**

- 17 Shannon Galgani, Jenny King, Chelsea Sawyer, James Wingfield Digby, Rachel Dockry, Kimberley Holt, Joanne Mitchell, Jacky Smith, Paul Marsden, Janelle Yorke A novel questionnaire describing sensations and triggers associated with refractory and unexplained chronic cough.
- 18 Conrado Guerrero Quiles, Julia Gonzalez A.,
  Rekaya Shabbira, V. Smitha, Michael Eyersc, J.
  D. Humphriesd, Peter Hoskina, M. J. Humphriesb, A. Choudhurya, C. Westa.
  Multi-omics and functional characterisation of the effect of hypoxia on remodelling of the extracellular matrix in bladder cancer
- 19 Rishabh Sharma, C. Y. Hu, A. Achari, P. Rowe, H. Xiao, S. Suran, Z. Li, K. Huang, C. Chi, C. T. Cherian, V. Sreepal, P. D. Bentley, A. Pratt, N. Zhang, K. S. Novoselov, A. Michaelides & R. R. Nair

  Unleashing Molecular Intelligence: pH-Regulated MoS2 Membranes for Autonomous Wound Infection Monitoring
- 20 Chang Bian, Martin Fergie, Tim Cootes, Beth Phillips Image-to-Image Translation of H&E stained sections to mIHC using deep learning
- 21 **Rinal Sahputra**, Halima A. Sylvia Lui, Christopher Jagger, David. J. Morgan, Oliver Brand, I-Hsuan Lin, Tracy Hussell, Madhvi Menon **Aberrant B cell responses in chronic obstructive pulmonary disease**
- 22 Lisa Mcdaid, Asher Ezekiel, Michael Dubec, Cynthia Eccles Are carbon fibre wedges an absolute contraindication for head and neck radiotherapy on an MR Linac?

- 23 **Debra Jones**, Anne Marie Sowerbutts and Sorrel Burden
  Evaluation of a mobile health application (MUST app) that identifies people at risk of malnutrition
- Abigail Pienaar, Annette Allen
  Investigating circadian modulation of visual
  processing within the visual thalamus
- 25 Laura Burgess Tornaletti, S. Rashmi, A. Thistlethwaite, A. Day, J. Derrick The design and plant-based expression of a novel vaccine against gonorrhoea
- 26 Breanna Dixon, Dr Waqar Ahmed, Dr Drupad Trivedi, Prof Stephen Fowler, Dr Tim Felton Metabolomic signatures of antimicrobial resistance in Enterobacteriaceae
- 27 Lucy Davies, Angela Davey, Abigail Bryce-Atkinson, Jose Benitez-Aurioles, Eliana Vasquez Osorio, Cynthia Eccles, Shermaine Pan, Gillian Whitfield, Marianne Aznar Detecting Facial Landmarks on Routine MRI to Assess Facial Asymmetry After Head and Neck Radiotherapy in children





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# **Venue Information**



The University of Mancheste



### **Core Technology Facility**

The University of Manchester
Grafton Street
Manchester
M13 9WU

#### **Car Park information**

Parking is available at the **multi-storey car part on Booth Street East (M13 9SS)**, open from 6:00 am to midnight, 7 days per week (maximum height 2.1 metres). **Current rates:** £2.50 up to 2 hours, £4.50 up to 4 hours, £8.00 up to 9 hours, £12,00 up to 24 hours.

#### **Access Information**

We aim to ensure all people have equal access to public events. If you need alternative formats or other reasonable adjustments, please contact Translation Manchester on +44 0161 306 8356 or via email: translation@manchester.ac.uk with your request by close of business on Friday 8th September so that arrangements, where possible, can be made.

#### Where in the building will the event be?

Talks and presentations will be held in The Dalton Room, poster exibition in The Innovation Suite. Refreshments to be served in the main foyer area.

#### Wi-fi access available:

Password will be available at the venue. Limited Eduroam coverage also avalable.

### How to get here:

The Core Technology Facility is located on the corner of Grafton Street and Upper Brook street. All meeting rooms are on the ground floor, accessed via the main entrance. The venue (highlighted in red in the map below) is a 20 minutes walk from Piccadilly Station.



#### **Event Feedback**



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### **CONTACT US**



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