

## Healthcare Technologies Strategy Engagement Events Summary Notes

### Background

In March 2023 the Engineering and Physical Sciences Research Council (EPSRC) Healthcare Technologies Theme published its new Health Technologies Strategy. The new strategy is a refreshed vision for EPSRC to stimulate advances in transformative engineering and physical sciences research to have a significant impact in health and ultimately enable people to live healthier lives.

The new strategy was developed in response to community advice and changes to the healthcare landscape since the original strategy was published in 2015. The strategy was developed over a year in consultation with many academic, industry and policy experts.

The strategy focuses on three areas:

- improving population health and prevention
- transforming prediction and early diagnosis
- discovering and accelerating the development of new interventions

To make sure these challenges are realised in a way that is responsible and most likely to lead to impact in the health space, the strategy also outlines several enablers that research within health technologies should address:

- responsible approaches to data
- patient and public involvement and engagement
- sustainable healthcare and health systems
- improving translation readiness
- reducing health inequalities
- supporting knowledge and skills in health technologies

To launch and engage the community in our new strategy, we held a series of engagement events. These events took place in person across the UK between May and October 2023. The engagement events took place in:

- Cardiff (18 May)
- Manchester (7 June)
- London (27 July)
- Edinburgh (7 September)
- Belfast (4 October)

Almost 600 people registered to attend across the five engagement events, the majority from academia but also with representatives from industry, government, policy and the healthcare sector.

## Objectives

The objectives of the strategy engagement events were to:

- disseminate and socialise the new strategy and for stakeholders to share their different perspectives
- gather input on short-term and long-term priorities and how EPSRC can best support the activities needed to start to implement the strategy

## Agenda

Below is an overview of the agenda at the engagement events.

<b>10:00</b>	<b>Arrival &amp; Registration</b>
<b>10:30</b>	<b>EPSRC welcome and overview of our Strategy</b>
<b>11:20</b>	<b>Speaker presentations reflecting on the 3 challenge areas in our Strategy</b>
<b>12:05</b>	<b>Panel discussion on the enablers</b>
<b>13:00</b>	<b>Lunch and networking</b>
<b>14:00</b>	<b>Keynote: What does the future of healthcare look like and how does EPSRC help achieve that?</b>
<b>14:30</b>	<b>Workshop session</b> Key questions: <ul style="list-style-type: none"> <li>- What do you see as the short- and long- term priorities in the strategy?</li> <li>- What might success look like in 3-5 years and 10 years+?</li> <li>- How can EPSRC best enable or support each challenge and add value?</li> </ul>
<b>15:45</b>	<b>Wrap up and next steps</b>
<b>16:00</b>	<b>Finish</b>

## Overview of Discussions at the Engagement Events

Over the five events, a range of speakers from across the health technologies research and innovation system shared examples of current and recent research and offered personal perspectives of the opportunities and challenges for transforming future health and the healthcare system.

Speakers and panel members across the events felt strongly that better public involvement should be a priority for the health technologies strategy. The importance of incorporating patient and public involvement and engagement (PPIE) at an early stage in healthcare research was highlighted, as well as the importance of engaging with a diverse range of patients and the public. Suggestions for how to do this included being creative and adapting to people's needs when planning engagement, for example subsets of patients may find it easier to engage online rather than in person. Further skills and training for researchers to enable them to carry out meaningful PPIE would be welcomed.

Consideration of health inequalities was also highlighted as important and panel members discussed the significance of considering this throughout the lifecycle of the development of a health technology.

The challenges of navigating and accessing data for health research was also discussed across the events and panel members raised the importance of thinking about a person-centered approach for this, as well as ensuring knowledge of the regulations around data. More support and guidance from EPSRC to access health data is needed.

Support for collaborations was raised as important, not just with patients and health professionals but also with researchers from other scientific disciplines.

Another point raised by panelists was that EPSRC should provide support and resources to fill the gaps between research and translation. Concerns were raised that there are gaps between the different research funders in terms of a smooth pathway from research to translation.

The keynote speakers at all five events discussed the future challenges in healthcare, some of the challenges noted were the escalating costs needed to deliver care and the longer waiting times for patients, the challenges of caring for an increasingly ageing population and for people living with multiple long-term conditions. Some opportunities highlighted where engineering and physical sciences could play a role were tools and technologies to help people manage their health in their own homes and technologies to allow earlier detection of disease which could have a significant impact on better outcomes for patients.

Please find a list of speakers and panelists in annex 1.

At all five engagement events there was a facilitated workshop session where attendees discussed the following questions:

- what do you see as the short-term and long-term priorities in the strategy?
- what might success look like in three to five years and 10 years+?
- how can EPSRC best enable or support each challenge and add value?

A summary of the discussions from the workshop sessions over the five engagement events can be found in annex 2.

The outputs of the strategy engagement events will inform the development of an action plan against which EPSRC can monitor progress and evolve and adapt future plans.

### **Attendee List**

A contact list of those who registered to attend the strategy engagement events can be found in Annex 2.

## Annex 1- List of speakers and panelists

Special thanks to our panel members and speakers for their insightful contributions.

### Cardiff Event

- Professor Ian Craddock, Department of Electrical and Electronic Engineering, University of Bristol
- Professor Emma MacPherson, Department of Physics, University of Warwick
- Professor Jonathan Rossiter, Department of Engineering Mathematics, University of Bristol
- Trish Menash, PPIE representative
- Professor Matt Jones, Morgan Advanced Studies Institute, Swansea University
- Dr Liba Sheeran, School of Healthcare Sciences, Cardiff University
- Professor Liam Grover, School of Chemical Engineering, University of Birmingham

### Edinburgh Event

- Professor Linda Bauld, College of Medicine, and Veterinary Medicine University of Edinburgh
- Professor Maiwenn Kersaudy-Kerhoas, School of Engineering and Physical Sciences, Heriot Watt University
- Professor Manuel Salmeron-Sanchez, James Watt School of Engineering, University of Glasgow
- Professor John Girkin, Department of Physics, Durham University
- Mr Eric Deeson, PPIE representative
- Professor Duncan Hand, School of Engineering and Physical Sciences, Heriot Watt University
- Professor Abi Durrant, School of Computing, Newcastle University
- Dr Ana Talbot, Consultant in Older Peoples Services, University Hospital Monkland
- Dr Andrew Fraser, Public Health Scotland

### London Event

- Dr David Crosby Head of Prevention and Early Detection Research, Cancer Research UK
- Professor Malcolm Skingle Director Academic Liaison, GSK
- Miss Celia Theodoreli Riga Consultant Vascular Surgeon and Clinical Senior Lecturer in Surgery at Imperial College London
- Abigail Needham Project Manager, NIHR Devices for Dignity MedTech Co-operative
- Professor Dan Stoyanov Professor of Robot Vision, Department of Computer Science, University College London
- Professor Rebecca Shipley Professor of Healthcare Engineering, Department of Mechanical Engineering, University College London

### Manchester Event

- Professor Catherine Noakes, School of Civil Engineering, University of Leeds

- Professor Richard Hall, School of Mechanical Engineering, University of Leeds
- Professor Russell Harris, School of Mechanical Engineering, University of Leeds
- Professor Ian Hall, School of Mathematics, University of Manchester
- Professor Rory O'Connor, School of Medicine, University of Leeds
- Professor Niels Peek, School of Health Sciences, University of Manchester
- Professor Rachel Cooper, Lancaster Institute for the Contemporary Arts, Lancaster University
- Jay Hamilton Programme Director / Industry & Commercial Partnerships, Health Innovation Manchester
- Professor Neil Hanley, Vice Dean for Research and Innovation, University of Manchester

#### Belfast Event

- Professor Carmel Moran, Centre for Cardiovascular Science, University of Edinburgh
- Professor Chris Nugent, Director of the Computer Science Research Institute, Ulster University
- Professor AJ McKnight, School of Medicine, Dentistry and Biomedical Sciences, Queens University Belfast
- Professor Chris McCabe, Centre for Public Health, Queen's Business School, Queens University Belfast
- Professor Jim McLaughlin, School of Engineering, Ulster University
- Professor Frank Kee, School of Medicine, Dentistry and Biomedical Sciences, Queens University Belfast
- Dr Joann Rhodes, Health Innovation Research Alliance Northern Ireland (HIRANI)

## Annex 2- Summary of discussions at engagement events

Below is a summary of the feedback and discussions shared at the engagement events.

### What do you see as the most pressing priorities in the strategy?

#### Improving Population Health and Prevention:

- Indoor pollution
- Tackling obesity
- Mental health post-COVID-19
- Improving lifestyle at the population level - gamification apps
- Holistic approach to health economics
- Measuring outcomes – ‘prevention’ makes it difficult.
- Longitudinal studies
- Addressing health inequalities (digital divide)
- Digital twins
- Preparing for next pandemic - learn from innovations during the pandemic
- Built environment and relationship to health
- Lifestyle habits/diet
- Healthier living and working environments.
- Community based interventions
- Utilising sensor rich wearables and environmental sensors
- Research to better understand risk factors
- Personalized monitoring methods (smart homes)
- Epigenetic causes of disease
- Patient level awareness on digital health
- Automatic screening genotype from birth – understanding risks
- Healthy ageing

#### Transforming early prediction and diagnosis:

- Early diagnosis of chronic disease
- Identify current problems in diagnosis
- Better diagnostic tests
- Development of non-invasive sensors – for good quality data/diagnostics
- Responsible diagnosis – diagnosing a disease earlier for effective treatment/good outcome
- Prevention multiplexed diagnostic technologies
- Sensing technologies – non-invasive
- Developing a holistic approach to diagnostics
- Non-invasive diagnostics via use of data from devices etc



- Non-intrusive technologies
- Computational modelling for predicting patient status
- Improved bioelectronic and sensing devices
- Making early diagnostic tools more accessible in the home
- Extracting data from chat bots and reuse for later appointments
- Cheap sustainable degradable sensors and diagnostic tools
- Family and friends support – how can technology help?
- Non-invasive diagnostic technology for long term health monitoring
- Integration of artificial intelligence (AI) with advanced diagnostic tools
- Pre-empting disease – technologies to diagnose that are low cost and affordable
- Monitoring, data to model predict strokes
- Digital twin for medical data
- Better identification of co-morbidities so we can apply screening in a more effective way
- Personalised early prediction and diagnosis based on social determinants of health
- Putting diagnostic tools in everyday things that people use
- Need data collection representative of population so diagnostic predictions hold true for whole population
- Imaging + AI

#### **Discovering and accelerating the development of new interventions:**

- Manufacture at scale
- Managing multimodality
- Non-invasive personalised interventions
- More low-cost initiatives
- Long term smart drug delivery for chronic conditions (Inflammatory Bowel Disease, endocrinological conditions)
- Ageing society
- Road to manufacture
- Reusing, repurposing technologies already out there
- Miniaturization of interventions
- Targeted drug delivery
- Improved supply chain
- Cell therapies
- Drug delivery
- Personalized AI algorithms for patient specific solutions
- Robotics for interventions
- New surgical imaging
- Systems engineering for hospitals
- Materials technologies to address foreign body response to implants



- Barrier to long term implants such as bioelectronics
- In vitro disease models for human on chip for large scale device + drug testing
- In silico models for rational design of organ specific implants
- Application of quantum computing
- Enabling remote care by moving interventions into home and community
- Virtual medicine
- Understanding patient behaviour and attitudes
- Merging of data and advanced manufacturing

### **How can EPSRC best support these priorities within the strategy?**

#### **1. Ensure cross disciplinary collaboration and work with appropriate partners (across UKRI and other funders) when developing funding opportunities.**

- Require partner organisations
- Collaborative conversations between academics and clinicians
- Funding schemes for cross sector and cross region collaboration
- Networking events and opportunities
- Facilitation, match making
- Network grants funding
- International collaboration
- Connecting with policy
- Charitable engagement on specific diseases
- Have clinical focus groups
- Showcase events for people to meet around calls, topics etc

#### **2. Explore mechanisms to fund high risk, disruptive research in health technologies.**

- Sandpits
- Pilot grants or small transformative grants

#### **3. Encourage and support the translation of health technologies research into the clinic.**

- Support innovation with existing technologies
- More early translation and implementation funding
- Work with other funding providers to cover later technology readiness levels (TRLs)
- Improve visibility, plus usability of health translation plus impact toolkits
- More translation schemes
- Clarify which costs you can request for translation
- Support for clinical studies to translate research (without needing to switch to another funder)



**4. Identify skills that need to be developed within health technologies.**

- More discipline hopping
- Train more clinicians in engineering and AI (Centres for Doctoral Training)
  
- Post Doctoral Fellowships plus training
- Multidisciplinary training
- Career development opportunities in priority areas
- Secondments to support translation
- Train new researchers in translation skills

**5. Peer Review Process.**

- Consider funding processes, for example, fair deadlines, not after school holidays etc
- Ensure reviewers and panel members are multidisciplinary and equipped to assess health technology proposals
- Diversify funding portfolio to less funded centres
- Educating reviewers about multidisciplinary proposals

**6. Improve guidance and support for embedding PPIE in health technologies research.** <sup>[OBJ]</sup>

- Investing in PPIE agnostic to the university, for example, like VOICE (Valuing our Intellectual, Capital and Experience) at Newcastle University
- Matchmaking PPIE for researchers
- Funding to develop PPIE
- Sign posting to existing PPIE resources, for example, National Institute for Health and Care Research (NIHR)
- Business models for charities to provide PPIE service to researchers
- Better co-production with patient partners organisations to understand priorities
- Funding for Equality, Diversity and Inclusion (EDI) approach in PPIE
- Regional teams that support PPIE
- Creative approaches to public engagement
- Seed funding for PPIE
- Public engagement support, as an example, for science festivals

**7. Decide principles for embedding sustainable healthcare practices into the research we fund and encourage sustainability throughout the portfolio.** <sup>[OBJ]</sup>

- Increase emphasis on responsible sustainable research
- Embed sustainability of materials and devices in assessment criteria

**8. Support for data infrastructure and guidance on data.**



- Collation of existing data
- Support for trusted research environments and data fusion functionality
- More projects entirely on making data sets
- Clarity around EPSRC data strategy
- Support data driven analytics research
- Support data sharing
- Encouraging more inclusive data collection (so it's representative of the population) [OBJ]
- Funding for access to data
- Some data challenges common to other sectors? Could there be cross learning? For example, finance
- Promote data sharing and open access – make mandatory in some calls
- Data sources
- Data banks
- Library of data sets
- Mandate better open data curation
- Understand access to data and potential solutions
- Guidance on ethics, data sharing, Intellectual Property etc
- Transparency
- Build trust
- Co-ordinate and collaborate across UKRI and Health Data Research UK (HDRUK) in relation to data availability and platforms

#### **9. Health inequalities.**

- Fund research in areas where health inequalities are most acute
- Include diverse communities in research- PPI

#### **10. Funding.**

- Funding for applied AI
- Predictive analytics for healthcare diagnosis research and Centres for Doctoral Training (CDTs)
- Targeted funding streams with commercial data providers
- Early detection sandpits for primary and pre-primary care
- Calls for sustainable (materials) in healthcare
- Funding for microsystems – miniaturised medical implants – minimally invasive for implantation
- International grants and collaboration funding
- Maintain funding for blue skies research
- Continue to support improved computation for chemistry and biology.
- AI for drug discovery
- Reintroduce panel observers



- Antimicrobial Resistance

## **What will success look like in five years?**

### **More sustainable healthcare practices**

- Less medical waste
- Sustainable healthcare needs no plastics

### **Broader use of AI and digital tech solutions**

- Use of AI in healthcare (at General Practitioners)
- Smart watch telling us to see a General Practitioner (GP)
- More evidence of AI driven diagnostic tools used in clinical settings
- From AI to responsible AI
- Education of health professionals in interpretation AI derived data
- Policy developments for trustworthy AI

### **Reliable data**

- Reliable data collection
- Managing the bias in data
- Better data capture and storage
- Medical data currently inadequate or missing. So collection and organization of bigger and better datasets
- Diverse datasets, representative datasets and population datasets
- Streamlined data access across the healthcare system
- Dedicated funding to support longitudinal studies

### **Better Public engagement in research**

- Public awareness and community engagement
- Upskilling around PPIE
- PPIE coming through all research

### **Innovative technologies**

- Self-care improvements
- Neurodiagnostics and decision support for epilepsy
- Innovative approaches to treating diseases that are not just iterative
- Better real time trials access
- Multiple streams tackling waiting lists- diagnosis, systems, efficiencies
- Better remote care and enabling self-management and independence
- Stratification systems linked to earlier diagnosis making better use of data
- Technologies available in the home, for example mini GP at home and 'her for health'

- High energy – density and compact batteries (and better solutions for energy)
- Novel biosensors
- New chemical tools for the study of 1000 new proteins – de-risks many areas for pharma (this is currently not possible in five years)
- Quantum Computing for design to get failures identified quickly
- Increased funding in nano sensing diagnostics and therapeutics
- Missed areas, including rare diseases, artificial organs

## **Being more agile to support innovative technologies**

### **Bridging translation gap**

- Cross-council calls
- Clear funding mechanism for translation from research to clinical studies

### **Trust in health data**

- Patient access and sharing of own data
- Trust in data management
- Data storage patient involved sharing

### **Equity of access to health technologies**

- Equality of health
- Inclusion of all regions of the UK in the portfolio of funding
- Addressing health inequalities in a more impactful way

### **More preventative less reactive healthcare**

- More research directed to prevention
- Behavioural interventions

### **Improvements in peer review**

- Peer review coping with interdisciplinarity
- Matched clinicians to projects

### **Healthier society**

- Fewer people with chronic diseases
- Fewer prescriptions for mental health problems
- Better ability to impact health outcomes and plan for care
- Earlier diagnosis
- Percentage decrease in chronic disease prevalence and the burden of those that are lifestyle related
- Healthier population
- Improved quality of life

## **Infrastructure for facilitating and validating new technologies for interventions and getting engineers, clinicians and other research stakeholders ‘in the room’**

### **What will success look like in 10 years?**

- Primary care mainly at home
- Increased technologies actually reaching the patient
- Healthier society
- Shorter waiting lists
- Lower sickness related unemployment
- AI systems impacting healthcare at a large scale
- Hospital admissions for acute trauma (all scheduled care in community settings)
- Clear assessment criteria and guidelines for PPIE
- Regular facilitated mixed domain meetings across sectors
- Solutions for more extensive access to population groups, in terms of recruitment and engagement
- Repository of standardized data
- Improved translation pathways
- Personalized recommendations based on personal risk (social determinant or health + genetics)
- Preventative care the norm
- Better diagnosis
- Better data access that is representative of the population
- Use of data to select diagnostic tests.
- More easily accessible sensor systems. For example, low-cost systems for home care
- More available accessible prediction tools
- Clinically validated predictive biomarkers for risk stratification for better intervention
- Improved sustainability – full life-cycle analysis
- Reduced costs for the NHS
- Support for lobbying policy makers to help us sustain implementation of healthcare technologies
- Chemical tools for the study (in cells) of all proteins
- Tailored interventions based on personal risk factors
- Self-management of disease at home (low-cost technology)
- Lowering health inequalities, improving patient quality of life
- Transformative healthcare devices
- One health circular ecosystem
- Number of life years created thanks to digital innovation



- Quality of life overextending life
- Efficient integrated healthcare system
- Improved patient outcomes

## Annex 2- Registration List

First Name	Surname	Organisation	Email Address
Fergus	Pick	Swansea University	953420@swansea.ac.uk
Matt	Hall	Swansea University	961500@swansea.ac.uk
Akram	Alomainy	Queen Mary University of London	a.alomainy@qmul.ac.uk
Anne	Elliott	Middlesex University	a.elliott@mdx.ac.uk
Antonio J	Torija Martinez	University of Salford	A.J.TorijaMartinez@salford.ac.uk
Animesh	Jha	University of Leeds	a.jha@leeds.ac.uk
Agnieszka	Marczuk-Dupim	University of Salford	a.marczuk-dupim@salford.ac.uk
Adelaide	Marzano	Edinburgh Napier University	a.marzano@napier.ac.uk
AbuBakr	Bahaj	University of Southampton	a.s.bahaj@soton.ac.uk
Alex	Shenfield	Sheffield Hallam University	a.shenfield@shu.ac.uk
Ad	Spiers	Imperial College London	a.spiers@imperial.ac.uk
Toby	Jenkins	University of Bath	a.t.a.jenkins@bath.ac.uk
Adriana	Wilde	University of Southampton	a.wilde@soton.ac.uk
Anna	Wildner	University of Surrey	a.wildner@surrey.ac.uk
Ana	Serra	University of Bath	aaas35@bath.ac.uk



Abiola	Saka	University of Bristol	abiola.saka@bristol.ac.uk
Andrew	Flewitt	University of Cambridge	ajf@eng.cam.ac.uk
Alsn	Myrray	University of Edinburgh	Alan.Murray@ed.ac.uk
Alessandro	Borghi	Durham University	alessandro.borghi@durham.ac.uk
Alessia	Faggian	University of Trento	alessia.faggian@unitn.it
Alex	Casson	University of Manchester	alex.casson@manchester.ac.uk
Alex	Cole	CPI	Alex.cole@uk-cpi.com
Alex	Dickinson	University of Southampton	alex.dickinson@soton.ac.uk
Alex	Dyson	King's College London	alex.dyson@kcl.ac.uk
Alex	Peden	University of Edinburgh	alex.peden@ed.ac.uk
Aline	Miller	University of Manchester	aline.miller@manchester.ac.uk
Alistair	McCormick	University of Edinburgh	alistair.mccormick@ed.ac.uk
Waraf	Al-yaseen	University of Cardiff	Al-yaseenw1@cardiff.ac.uk
Amberly	Brigden	University of Bristol	amberly.brigden@bristol.ac.uk
Amr	Ahmed	Edge Hill University	Amr.Ahmed@edgehill.ac.uk
Amy	Hicks	University of Bristol	amy.hicks@bristol.ac.uk
Amy	Romaniuk	Innovate UK KTN	amy.romaniuk@iuk.ktn-uk.org
Ana	Teixeira	Oracle Health	ana.t.teixeira@oracle.com
Anastassia	Bolotkova	Bruntwood SciTech	anastassia.bolotkova@bruntwood.co.uk
Andrew	Fraser	formerly Public Health Scotland	andrewkfraser@gmail.com
Andy	Roberts	Bruntwood SciTech	andy.roberts@alderleypark.co.uk
Ania	Jolly	Henry Royce Institute	ania.jolly@royce.ac.uk
Ankush	Aggarwal	University of Glasgow	ankush.aggarwal@glasgow.ac.uk
Anton	Dubenko	University of Edinburgh	anton.dubenko@ed.ac.uk
Antonia	Mey	University of Edinburgh	antonia.mey@ed.ac.uk
Arjan	Buis	University of Strathclyde	arjan.buis@strath.ac.uk
Adeel	Shafi	St Andrews Innovation, University of St Andrews	as607@st-andrews.ac.uk
Ali	Shahaab	Cardiff Metropolitan University	ashahaab@cardiffmet.ac.uk
Ashley	Warner	University of the West of Scotland	ashley.warner@uws.ac.uk
Ashraf	Khair	Durham University	ashraf.w.khair@durham.ac.uk
Liana	Azizova	Cardiff University	AzizovaL@cardiff.ac.uk
Beatriz	de la Iglesia	University of East Anglia	b.iglesia@uea.ac.uk





Bharat	Pokhrel	University of Leeds	b.pokhrel@leeds.ac.uk
Stephan	Onggo	University of Southampton	b.s.s.onggo@soton.ac.uk
Bo	Su	University of Bristol	b.su@bristol.ac.uk
Barbara	Camanzi	Science and Technology Facilities Council - UK Research and Innovation	barbara.camanzi@stfc.ac.uk
Harry	Barraza	National Measurement Laboratory at LGC	barrazaharry@gmail.com
Ardhendu	Behera	Edge Hill University	beheraa@edgehill.ac.uk
Michael	Berthume	London South Bank University	berthume@lsbu.ac.uk
Sue	Bevan	Cardiff University	bevans2@cardiff.ac.uk
Bing	Wang	Great Ormond Street Hospital for Children NHS Foundation Trust	bing.wang@gosh.nhs.uk
Bruce	Guthrie	University of Edinburgh	bruce.guthrie@ed.ac.uk
Niek	Buurma	Cardiff University	buurma@cardiff.ac.uk
Carlos A	Ramos Romero	University of Salford	C.A.RamosRomero@salford.ac.uk
Claire	Brockett	University of Sheffield	C.Brockett@sheffield.ac.uk
Cuong	Cao	Queen's University Belfast	c.cao@qub.ac.uk
Charmaine	Childs	Sheffield Hallam University	c.childs@shu.ac.uk
Charmaine	Childs	Sheffield Hallam University	C.childs@shu.ac.uk
Chris	Cole	University of Dundee	c.cole@dundee.ac.uk
Catherine	Cowton	University of Liverpool	c.cowton@liverpool.ac.uk
Cheryl	Metcalfe	University of Southampton	c.d.metcalfe@soton.ac.uk
Chenfen g	Li	Swansea University	c.f.li@swansea.ac.uk
Christopher	Hancock	Bangor University	c.hancock@bangor.ac.uk
Carolyn	Arbuckle	University of Glasgow	carolyn.arbuckle@glasgow.ac.uk
Charlotte	Wu	Harness Health Global	Charlotte.wu@harnesshealthglobal.org



Cheryl	Scott	West of England Academic Health Science Network	cheryl.scott11@nhs.net
Chaminda	Hewage	Cardiff Metropolitan University	chewage@cardiffmet.ac.uk
Chiara	Ceresa	University of Salford	chiara.ceresa@uniupo.it
Heungjae	Choi	Cardiff University (School of Engineering)	ChoiH1@cardiff.ac.uk
Cicely	Kerr	Research Data Scotland	cicely.kerr@researchdata.scot
Cigdem	Sengul	Brunel University London	cigdem.sengul@brunel.ac.uk
Claire	Ford	University of Manchester	claire.ford@manchester.ac.uk
Claire	Sharpe	Institute of Physics and Engineering in Medicine	Claire@ipem.ac.uk
Claudia	Lindner	The University of Manchester	claudia.lindner@manchester.ac.uk
Barbara	Coles	Cardiff University	colesb2@cf.ac.uk
Colin	Veal	University of Leicester	colin.veal@leicester.ac.uk
Sivakumar	Govintharaj	WAANNABEE LTD	collagenprotech@gmail.com
Craig	Fairgrieve	Knowledge Centre for Materials Chemistry - CPI	craig.fairgrieve@uk-cpi.com
Cristian	Rodriguez Rivero	Cardiff Metropolitan University	crodriguezrivero@cardiffmet.ac.uk
John	Culling	Cardiff University	CullingJ@cardiff.ac.uk
Daniel	Abasolo	University of Surrey	d.abasolo@surrey.ac.uk
Daniela	Carta	University of Surrey	d.carta@surrey.ac.uk
Duncan	Hand	Heriot-Watt University	D.P.Hand@hw.ac.uk
Deepak	Sahoo	Swansea University	d.r.sahoo@swansea.ac.uk
Daniele	Tartarini	University of Sheffield	d.tartarini@sheffield.ac.uk
Damian	Mohammed	CPI	damian.mohammed@uk-cpi.com
Daniel	Gooch	The Open University	daniel.gooch@open.ac.uk
David	Young	Northumbria University	david.g.young@northumbria.ac.uk
David	Quinn	Queen's University Belfast	david.quinn@qub.ac.uk
Deanna	McPherson	St Mary's University	deanna.mcpherson@stmarys.ac.uk
Deanne	Hewson	University of Nottingham	deanne.hewson@nottingham.ac.uk



Delyth	Morgan	Welsh Government	Delyth.morgan@gov.wales
Denise	Davidson	The University of Manchester	denise.davidson@mancheser.ac.uk
Dikshyanta	Rana	HEHTA, University of Glasgow	dikshyanta.rana@glasgow.ac.uk
Donna	Graham	The Christie NHS Foundation Trust	donna.graham8@nhs.net
Douglas	Houston	University of Edinburgh	DouglasR.Houston@ed.ac.uk
David	Robertson	University of Edinburgh	dr@inf.ed.ac.uk
Nazanin	Mirhosseini	University of Manchester	drnazanin.mirhosseini@gmail.com
Emma	MacPherson	Warwick University	e.macpherson@warwick.ac.uk
Ezio	Preatoni	U of Bath	e.preatoni@bath.ac.uk
Asa	Tsui	Imperial College London	e.tsui@imperial.ac.uk
Abdalla	Eblabla	Cardiff University	eblablaa@cardiff.ac.uk
Jennifer	Edwards	Cardiff university	edwardsjk@cf.ac.uk
Elaine	Bousfield	ZunTold	elaine@zuntold.com
maria elena	Giannaccini	University of Aberdeen	Elena.Giannaccini@abdn.ac.uk
Emma	Glass	BSI	emma.glass@bsigroup.com
Elizabeth	Rendon-Morales	University of Sussex Department of Engineering and Design	er241@sussex.ac.uk
Emilie	Ringe	University of Cambridge	er407@cam.ac.uk
Eric	Deeson	none: public involvement volunteer	ericdeeson@aol.com
Dr Erin	Dooley	University of Bristol	erin.dooley@bristol.ac.uk
Rachel	Errington	Cardiff University	erringtonrj@cardiff.ac.uk
Emiliano	Spezi	Cardiff University	espezi@cardiff.ac.uk
Eva	Kagiri-Kalanzi	Scientia Scripta Communication Services	eva@scientiascripta.co.uk
Francis	Li	University of Salford	f.f.li@salford.ac.uk
Federico	Turkheimer	Institute of Psychiatry, Psychology, Neuroscience, King's College London	federico.turkheimer@kcl.ac.uk
Feihu	Zhao	Swansea University	feihu.zhao@swansea.ac.uk
Felicity	Rose	University of Nottingham	felicity.rose@nottingham.ac.uk
Elaine	Ferguson	Cardiff University	Fergusonel@cardiff.ac.uk
Andrea	Folli	Cardiff University	follia@cardiff.ac.uk



Fernando	Pabst Silva	Cardiff Metropolitan University	fpabstsilva@cardiffmet.ac.uk
Francesca	Hodges	Innovate UK KTN	francesca.hodges@iuk.ktn-uk.org
Frankie	Rawson	University of Nottingham	frankie.rawson@nottingham.ac.uk
Carolina	Fuentes	Cardiff University	fuentestoroc@cardiff.ac.uk
Fumie	costen	The University of Manchester	fumie.costen@manchester.ac.uk
fumie	costen	the university of manchester	fumie.costen@manchester.ac.uk
Gerard	Cummins	University of Birmingham	G.Cummins@bham.ac.uk
Guogang	Ren	University of Hertfordshire	g.g.ren@herts.ac.uk
Gianluca	Tozzi	University of Greenwich	g.tozzi@gre.ac.uk
Gabriella	Spinelli	Brunel University London	gabriella.spinelli@brunel.ac.uk
Daniel	Gallichan	Cardiff University	gallichand@cardiff.ac.uk
Maria	Galvez Trigo	Cardiff University	galveztrigom@cardiff.ac.uk
Gemma	Carfray	LumiraDX	gemma.carfray@lumiradx.com
Gerard	Briscoe	Royal College of Art	gerard.briscoe@rca.ac.uk
Michael	Germuska	Cardiff University	germuskam@cardiff.ac.uk
Giovanni	Stracquadano	University of Edinburgh	giovanni.stracquadano@ed.ac.uk
Gordon	Marshall	University of Stirling	gordon.marshall1@stir.ac.uk
GRANT	TREWART HA	NURVV	grant@nurvv.com
Clive	Gregory	Cardiff University	gregoryc1@cardiff.ac.uk
Howard	Bowman	University of Kent and University of Birmingham	H.Bowman@kent.ac.uk
Haiping	Lu	University of Sheffield	h.lu@sheffield.ac.uk
Hongnian	Yu	Edinburgh Napier University	h.yu@napier.ac.uk
Hadi	Madinei	Swansea University	Hadi.madinei@swansea.ac.uk
Hammed	Badmos	University of Glasgow	hammed.badmos@glasgow.ac.uk
Hanna	Isotalus	University of Bristol	hanna.isotalus@bristol.ac.uk
Hannah	Batchelor	University of Strathclyde	hannah.batchelor@strath.ac.uk
Howard	Duffy	St George's	hduffy@sgul.ac.uk



Helen	Fowler	University of Wolverhampton	Helen.fowler@wlv.ac.uk
Helen	Mulvana	University of Strathclyde	helen.mulvana@strath.ac.uk
Helena	Copsey	Institute of Occupational Medicine	helena.copsey@iom-world.org
Henrik	Boejen	Association of Commonwealth Universities	henrik.boejen@acu.ac.uk
Hatice	Gunes	University of Cambridge	hg410@cam.ac.uk
Yulia	Hicks	Cardiff University	hicksya@cf.ac.uk
Katja	Hill	Cardiff University	hillke1@cardiff.ac.uk
Anita	Howman	Cardiff Uni	howmana@cardiff.ac.uk
Hannah	Leese	University of Bath	hsl25@bath.ac.uk
Hua	Wei	University of Manchester	hua.wei@manchester.ac.uk
Hubin	Zhao	UCL	hubin.zhao@ucl.ac.uk
Hubin	Zhao	UCL	hubin.zhao@ucl.ac.uk
Hubin	Zhao	University College London	hubin.zhao@ucl.ac.uk
Ioannis	Georgilas	University of Bath	i.georgilas@bath.ac.uk
Ivor	Simpson	University of Sussex	i.simpson@sussex.ac.uk
Ian	Simpson	The University of Edinburgh	ian.simpson@ed.ac.uk
India	Cook	University of Southampton	ijjc1g21@soton.ac.uk
Imtiaz	Khan	Cardiff Metropolitan University	ikhan@cardiffmet.ac.uk
Nicola	Innes	Cardiff University	InnesN@cardiff.ac.uk
Ismail	Ben Mabrouk	Durham University	ismail.benmabrouk@durham.ac.uk
Joseph	Jackson	University of Salford	J.A.Jackson@Salford.ac.uk
Jon	Ashley	Liverpool John Moores University	j.ashley@ljmu.ac.uk
Jeff	Bezemer	UCL	j.bezemer@ucl.ac.uk
Jagmohan	Chauhan	University of Southampton	J.Chauhan@soton.ac.uk
James	Chandler	University of Leeds	j.h.chandler@leeds.ac.uk
Jemma	Kerns	Lancaster University	j.kerns@lancaster.ac.uk
Julie	Fielding	Swansea University	j.l.fielding@swansea.ac.uk
Joe	Latimer	University of Salford	j.latimer2@salford.ac.uk
John	Girkin	Durham University	j.m.girkin@durham.ac.uk



Janice	Murray	Advanced Care Research Centre, The University of Edinburgh	j.murray@ed.ac.uk
James	Gavin	School of Health Sciences, University of Southampton	J.P.Gavin@soton.ac.uk
James	Gavin	School of Health Sciences, University of Southampton	J.P.Gavin@soton.ac.uk
Jim	McLaughlin	Ulster University	jad.mclaughlin@ulster.ac.uk
James	Windmill	University of Strathclyde	james.windmill@strath.ac.uk
Jamie	Marland	University of Edinburgh	jamie.marland@ed.ac.uk
Jason	Davis	University of Oxford	jason.davis@chem.ox.ac.uk
Jaume	Bacardit	Newcastle University	jaume.bacardit@newcastle.ac.uk
Javier	Escudero	University of Edinburgh	javier.escudero@ed.ac.uk
JANE	LEWIS	Cardiff Metropolitan University	jealewis@cardiffmet.ac.uk
Jemma	Trick	The Francis Crick Institute	jemma.trick@crick.ac.uk
Jesus	Jiménez García	Verlight	jesusj78@gmail.com
Jon	Dawson	University of Southampton	jid@soton.ac.uk
Jill	Mulligan	Durham University	jill.e.mulligan@durham.ac.uk
Jinju (vicky)	Chen	Newcastle University	jinju.chen@ncl.ac.uk
Ze	Ji	Cardiff University	jiz1@cardiff.ac.uk
James	Joseph	University of Dundee	jjoseph001@dundee.ac.uk
Jeffrey	Lewis	Cardiff Metropolitan University	jlewis@cardiffmet.ac.uk
Jo	Knight	Lancaster University	Jo.Knight@Lancaster.ac.uk
John	Baker	Knowledge Centre for Materials Chemistry	John.Baker@uk-cpi.com
John	Murray	University of Sunderland	john.murray@sunderland.ac.uk
Jonathan	Turner	Kilogramme Animation	jon.turner@kilogramme.co.uk
Dafydd	Jones	Cardiff University	jonesdd@cardiff.ac.uk
Josh	Williams	STFC UKRI	josh.williams@stfc.ac.uk
James	Pope	University of Bristol	jp16127@bristol.ac.uk
Jasim	Uddin	Cardiff Metropolitan University	juddin@cardiffmet.ac.uk
Julian	Jones	Imperial College London	julian.r.jones@imperial.ac.uk
Julien	Reboud	University of Glasgow	julien.reboud@glasgow.ac.uk



June	Middleton	University of Aberdeen	june.middleton@abdn.ac.uk
Katherine	Dunn	University of Edinburgh	k.dunn@ed.ac.uk
Katie	Court	University of Southampton	K.L.Court@soton.ac.uk
Karl	Hawkins	Swansea University	k.m.hawkins@swansea.ac.uk
Vincent	Teng	Swansea University	k.s.teng@swansea.ac.uk
Krasimira	Tsaneva-Atanasova	University of Exeter	k.tsaneva- atanasova@exeter.ac.uk
Katie	Wilde	HDRUK Scotland/University of Aberdeen	k.wilde@abdn.ac.uk
Karen	Faulds	University of Strathclyde	karen.faulds@strath.ac.uk
Karen	Hampson	University of Manchester	karen.hampson- 2@manchester.ac.uk
Karolina	Kluk	The University of Manchester	karolina.kluk@manchester.ac.uk
Kathi	Edkins	University of Manchester	katharina.edkins@manchester.ac .uk
Katherine	Quinn	University of Edinburgh	Katherine.quinn@ed.ac.uk
Kedar	Pandya	EPSRC-UKRI	kedar.pandya@epsrc.ukri.org
Kia	Nazarpour	The University of Edinburgh	kianoush.nazarpour@ed.ac.uk
Kimia	Witte	University of Strathclyde	kimia.witte@strath.ac.uk
Kinjiro	Amano	University of Manchester	kinjiro.amano@manchester.ac.uk
Kirsten	Paterson	University of Edinburgh	kirsten.paterson@ed.ac.uk
Kathryn	Jarvis	University of Central Lancashire	KJarvis1@uclan.ac.uk
Kostas	Kostarelos	University of Manchester	kostas.kostarelos@manchester.a c.uk
Luciana	Dadderio	University of Edinburgh	l.d-adderio@ed.ac.uk
liangxiu	Han	Manchester Metropolitan University	L.Han@mmu.ac.uk
Louise	McKenzie	Heriot-Watt University	l.mckenzie@hw.ac.uk
Linh	Nguyen	University College London	l.nguyen@ucl.ac.uk
Linh	Nguyen	University College London	l.nguyen@ucl.ac.uk
Laurence	Kenney	University of Salford	l.p.j.kenney@salford.ac.uk
Lin Yuanbo	Wu	Swansea University	l.y.wu@swansea.ac.uk



Lana	Lai	University of Manchester	lana.lai@manchester.ac.uk
Laura	Kelly	University of Liverpool	laura.kelly@liverpool.ac.uk
Laura Michelle	Parkes	University of Manchester	laura.parkes@manchester.ac.uk
Lauren	Evans	Future Care Capital	lauren.evans@futurecarecapital.org.uk
Lauren	Tempelman	The University of Manchester	lauren.tempelman@manchester.ac.uk
Andrew	Lawrence	Cardiff University	lawrencead@cardiff.ac.uk
Layla	Robinson	Research Data Scotland	Layla.robinson@hotmail.com
Leah	Morris	UWE Bristol	leah.morris@uwe.ac.uk
Leona	Morton	The Welding Institute	leona.morton@twi.co.uk
Leona	Ogene	University of Manchester	Leona.Ogene@postgrad.Manchester.ac.uk
Lian	Gan	Durham University	lian.gan@durham.ac.uk
Lindsay	Sharples	Innovation Agency	lindsay.sharples@innovationagency.nhs.uk
Linsey	Simkin	Association of Commonwealth Universities	linsey.simkin@acu.ac.uk
Lisa	George	University of Wolverhampton	lisa.george@wlv.ac.uk
Leen	Jabban	University of Bath	lj386@bath.ac.uk
Liqaa	Nawaf	Cardiff Metropolitan University	llnawaf@cardiffmet.ac.uk
Louise	Earley	National Physical Laboratory	louise.earley@npl.co.uk
Louise	Gray	University of Strathclyde	louise.gray.100@strath.ac.uk
Lucy	McCloughan	The University of Edinburgh	lucy.mccloughan@ed.ac.uk
Luke	Cerexhe	University of the West of Scotland	luke.cerexhe@uws.ac.uk
Louis	Luk	Cardiff University	lukly@cardiff.ac.uk
Zhiwen	Luo	Cardiff University	luoz18@cardiff.ac.uk
Sophie	Shermer	Swansea University	lw1660@gmail.com
Lynne	McCorriston	University of Glasgow	lynne.mccorriston@glasgow.ac.uk
M Alessandra	Diaz De Rienzo	University of Salford	m.a.diazderienzo@salford.ac.uk
Michelle	Beukes	Heriot-Watt University	M.Beukes@hw.ac.uk
Mirella	Di Lorenzo	University of Bath	m.di.lorenzo@bath.ac.uk





Mirella	Di Lorenzo	University of Bath	m.di.lorenzo@bath.ac.uk
Mohammad	Eissa	The university of Sheffield	M.eissa@sheffield.ac.uk
Mike	Bryant	Leeds Uni	M.g.bryant@leeds.ac.uk
Mazdak	Ghajari	Imperial College London	m.ghajari@imperial.ac.uk
Malcolm	Granat	University of Salford	m.h.granat@salford.ac.uk
Muneeb	Ahmad	Swansea University	m.i.ahmad@swansea.ac.uk
Minkwan	Kim	University of Southampton	m.k.kim@soton.ac.uk
Maiwenn	KERSAUDY-KERHOAS	Heriot-Watt University	m.kersaudy-kerhoas@hw.ac.uk
Mark	Collins	Sheffield Hallam University	m.l.collins@shu.ac.uk
Megan	Maunder	Wellcome Trust	m.maunder@wellcome.ac.uk
Mike	MacDonald	University of Dundee	m.p.macdonald@dundee.ac.uk
Maziar	Nezhad	University of Salford	m.p.nezhad@salford.ac.uk
Mike	Stembridge	Cardiff Metropolitan University	m.stembridge@icloud.com
Mark	Elliott	University of Warwick	m.t.elliott@warwick.ac.uk
Michelle	Swain	University of Dundee	m.t.swain@dundee.ac.uk
Mahdi	Bodaghi	Nottingham Trent University	mahdi.bodaghi@ntu.ac.uk
Marah	Alassaf	University of Bristol	marah.alassaf@bristol.ac.uk
Mark	Briggs	Cardiff and Vale University Health Board	mark.briggs@wales.nhs.uk
Francesco	Masia	Cardiff University	masiaf@cf.ac.uk
Matthew	Todd	UCL	matthew.todd@ucl.ac.uk
Mauricio	Alvarez	University of Manchester	mauricio.alvarezlopez@manchester.ac.uk
Mehdi	Tavakoli	Innovate UK KTN	Mehdi.tavakoli@iuk.ktn-uk.org
Liz	Merrifield	Cardiff University	merrifielder@cf.ac.uk
Michael	Adeogun	National Physical Laboratory	michael.adeogun@npl.co.uk
Michael	Clark	Welsh Wound Innovation Centre	michael.clark@wwic.wales
Michael	Stone	University of Manchester	michael.stone@manchester.ac.uk
Michael	Stone	University of Manchester	michael.stone@manchester.ac.uk



Michele	Svanera	University of Glasgow	Michele.Svanera@glasgow.ac.uk
Miguel	Bernabeu	The University of Edinburgh	miguel.bernabeu@ed.ac.uk
Mike	Batley	Department of Health and Social Care	mike.batley@dhsc.gov.uk
Mingzhong	Li	De Montfort University	mli@dmu.ac.uk
Maeve	Malone	University of Dundee	mmalone001@dundee.ac.uk
Mohamed	Maher	Balsamee LTD	mohamed.maher@balsamee.co.uk
Mohammed	Mir	National Physical Laboratory	mohammed.mir@npl.co.uk
Syed Mohsen	Naqvi	Newcastle University	mohsen.naqvi@newcastle.ac.uk
Mome	Mukherjee	The University of Edinburgh	mome.mukherjee@ed.ac.uk
Momina	Muzammil	University of Manchester	momina.muzammil@postgrad.manchester.ac.uk
Simon	Moore	Cardiff University	moore2@cardiff.ac.uk
Melusine	Pigeon	University of Bath	mp2572@bath.ac.uk
Nigel	Davies	Lancaster University	n.a.davies@lancaster.ac.uk
Niamh	Graham	University of Edinburgh	n.e.graham@sms.ed.ac.uk
Nicola	Hall	University of Sunderland	n.hall@sunderland.ac.uk
Nicola	Purdy	Swansea University	n.j.purdy@swansea.ac.uk
Hendrik	Nahler	Heriot Watt University	n.nahler@hw.ac.uk
Nada	Philip	Kingston University London	n.philip@kingston.ac.uk
Nicholas	Race	Lancaster University	n.race@lancaster.ac.uk
Nick	Stone	University of Exeter	n.stone@exeter.ac.uk
Nicola	Bailey	University of Bath (King's College London from June 2023)	n.y.bailey@bath.ac.uk
Nasim	Dadashiserej	University of west london	nasim.dadashiserej@uwl.ac.uk
Natalie	Theodoulou	University of Manchester	natalie.theodoulou@manchester.ac.uk
Natasha	Ajraam	Royal National Orthopaedic Hospital NHS Trust	natasha.ajraam@nhs.net
Neda	Azarmehr	University of West London	neda.azarmehr@uwl.ac.uk



Nelson	Trujillo-Barreto	The University of Manchester	nelson.trujillo-barreto@manchester.ac.uk
Nicholas	Ratray	University of Strathclyde	nicholas.ratray@strath.ac.uk
Nicky	Cullum	University of Manchester	nicky.cullum@manchester.ac.uk
Niels	Peek	The University of Manchester	niels.peek@manchester.ac.uk
Nan	Li	University of Cambridge	nl276@cam.ac.uk
Nazia	Mehrban	University of Bath	nm2051@bath.ac.uk
Viviana	Novelli	Cardiff University	Novelliv@cardiff.ac.uk
Mari	Nowell	Cardiff University	nowellma@cardiff.ac.uk
NGUYE N T. K.	THANH	Univeristy College London	ntk.thanh@ucl.ac.uk
Owen	Guy	Swansea University	o.j.guy@swansea.ac.uk
Olivia	Howells	Life Science Hub Wales	olivia.howells@lshubwales.com
Owain	Walsh	Bionow	owain.walsh@bionow.co.uk
Ozlem	Ipek	King's College London	ozlem.ipek@kcl.ac.uk
paul	campbell	univ dundee	p.a.campbell@dundee.ac.uk
Philip	Aston	University of Surrey	p.aston@surrey.ac.uk
Pete	Jones	University of Southampton	p.d.jones@soton.ac.uk
Pedro	Estrela	University of Bath	p.estrela@bath.ac.uk
Pete	Twigg	University of Bradford	p.twigg@bradford.ac.uk
Pietro	Valdastri	University of Leeds	p.valdastri@leeds.ac.uk
Pam	Smith	WMCRN- CANCER	pam.smith@totalise.co.uk
Pardeep	Kumar	Swansea University	Pardeep.kumar@swansea.ac.uk
Patricia	Connolly	Uniersity of Strathclyde	patricia.connolly@strath.ac.uk
Paul	Hatton	University of Sheffield	paul.hatton@sheffield.ac.uk
Paul	Kirkbright	South London Partnership/BIG South London	Paul.Kirkbright@southlondonpartnership.co.uk
Rhys	Pearce-Palmer	Cardiff University	pearcer5@cardiff.ac.uk
Susan	Peirce	Cardiff University	peirces@cardiff.ac.uk
P. Stephen	Patrick	University College London	peter.patrick@ucl.ac.uk
Phyllis	Quinn	University of Strathclyde	phyllis.quinn@strath.ac.uk
Priyatharshini	Rajaram	Cardiff Metropolitan University	PRajaram@cardiffmet.ac.uk
Pranjal	Jain	Swansea University	pranjal.jain@swansea.ac.uk
Peter	sykes	Cardiff Metropolitan Univeristy	psykes@cardiffmet.ac.uk
Pushpajit	Khaire	University of Bristol	pushpajit.khaire@bristol.ac.uk



Rafael	Calvo	Imperial College London	r.calvo@imperial.ac.uk
Rachel	Churm	Swansea University	r.churm@swansea.ac.uk
Raechelle	D'Sa	University of Liverpool	r.dsa@liverpool.ac.uk
Rudolf	Hellmuth	Imperial College London	r.hellmuth@imperial.ac.uk
Ruth	Wilcox	University of Leeds	r.k.wilcox@leeds.ac.uk
Richard	Bracken	Swansea University	r.m.bracken@swansea.ac.uk
Robert	Thomson	Heriot Watt University	R.R.Thomson@hw.ac.uk
Rory	Clark	Swansea University	r.s.clark@swansea.ac.uk
Sashikumar	Ramamirtham	Edinburgh Complex Fluids Partnership	R.Sashik@ed.ac.uk
Rachel	Gemine	Digital Health and Care Wales	rachel.e.gemine@wales.nhs.uk
Raheleh	Kafieh	Durham University	raheleh.kafieh@durham.ac.uk
Richard	Good	University of Glasgow	richard.good@glasgow.ac.uk
Richard	Vaughan	Different Castle Limited	richard@differentcastle.com
RICH	PAXMAN	PAXMAN SCALP COOLING	richard@paxmanscalpcooling.com
Randall	Mrsny	University of Bath	rjm37@bath.ac.uk
Isabel	Straw	UCL	rmhiist@rmh.ac.uk
Rob	Wykes	University of Manchester	rob.wykes@manchester.ac.uk
Robert	Salter	Cwm Taf Morgannwg UHB	Robert.salter@wales.nhs.uk
Ron	Swart	KCMC/CPI	ron.swart@uk-cpi.com
Roxana	Pollack	UoG	roxana.pollack@glasgow.ac.uk
Renin	Toms	Cardiff Metropolitan University	RToms@cardiffmet.ac.uk
Ryan	Mulholland	University of Glasgow	ryan.mulholland@glasgow.ac.uk
Steph	Abraham	University of Bradford	s.abraham2@bradford.ac.uk
Sanem	Bayar	Lancaster University	s.bayar@lancaster.ac.uk
Shilpy	Bhat	University of Southampton	s.bhat@soton.ac.uk
Safak	Dogan	Loughborough University London	S.Dogan@lboro.ac.uk
Sarah	Joseph	Imperial College London	s.joseph@imperial.ac.uk
Sumeet	Mahajan	University of Southampton	s.mahajan@soton.ac.uk
Sotiris	Moschoyiannis	University of Surrey	s.moschoyiannis@surrey.ac.uk
Simon	Robinson	Swansea University	s.n.w.robinson@swansea.ac.uk
Sofia	Pascu	Bath University	s.pascu@bath.ac.uk



Susan	Patrick	University of Southampton	s.patrick@soton.ac.uk
Stephen	Rimmer	University of Bradford	S.rimmer@bradford.ac.uk
Silvia	Taccola	University of Leeds	s.taccola@leeds.ac.uk
Serena	Tricarico	The University of Edinburgh	s.tricarico@ed.ac.uk
Samuele	Vinanzi	Sheffield Hallam University	s.vinanzi@shu.ac.uk
Shelly	Vishwakarma	University of Southampton	s.vishwakarma@soton.ac.uk
Sabina	Hawthornthwaite	The University of Manchester	sabina.hawthornthwaite@manchester.ac.uk
Sadiqa	Esmail	The Association of Commonwealth Universities	sadiqa.esmail@acu.ac.uk
Sagar	Jain	Cranfield university	sagar.m.jain@cranfield.ac.uk
Sameer	Zuberi	NHS GGC / University of Glasgow	Sameer.Zuberi@ggc.scot.nhs.uk / Sameer.Zuberi@glasgow.ac.uk
Sam	Merriel	University of Manchester	Samuel.merriel@manchester.ac.uk
Sanjay	Thakrar	The Dunhill Medical Trust	sanjay.thakrar@dunhillmedical.org.uk
Santiago	Matalonga	University of the West of Scotland	santiago.matalonga@uws.ac.uk
Sarah	Taylor	Life Sciences Hub Wales	sarah.taylor@lshubwales.com
Sarah	Bohndiek	Department of Physics, University of Cambridge	seb53@cam.ac.uk
Seonaid	Lafferty	University of Liverpool	seonaid.lafferty@liverpool.ac.uk
Seth	Mensah	Mechanical engineering	sethmensah6675@gmail.com
Shahid	Awan	UWS	shahid.awan@uws.ac.uk
Shahin	Homaeigohar	University of Dundee	shomaeigohar001@dundee.ac.uk
Shuai	Zhang	Queen's University Belfast	shuai.zhang@qub.ac.uk
Shuai	Zhang	Queen's University Belfast	SHUAI.ZHANG@QUB.AC.UK
Edmond Shu Lim	Ho	University of Glasgow	Shu-Lim.Ho@glasgow.ac.uk
Siamak	Shahandashti	University of York	siamak.shahandashti@york.ac.uk



Silvia	Caggiari	University of Southampton	silvia.caggiari@soton.ac.uk
Simon	Harper	University of Manchester	simon.harper@manchester.ac.uk
Simone	Stumpf	University of Glasgow	simone.stumpf@glasgow.ac.uk
Sina	Saffaran	University of Warwick	sina.saffaran.1@warwick.ac.uk
Siobhan	O'Connor	The University of Manchester	siobhan.oconnor@manchester.ac.uk
Siôn	Charles	ARCH	sion.charles2@wales.nhs.uk
Serena	Best	University of Cambridge	smb51@cam.ac.uk
Senthil Murugan	Ganapathy	University of Southampton	smg@orc.soton.ac.uk
steven	niederer	Alan Turing Institute	sniederer@turing.ac.uk
Soheeb	Khan	University of the West of Scotland	Soheeb.Khan@gcu.ac.uk
Sondipon	Adhikari	The University of Glasgow	Sondipon.Adhikari@glasgow.ac.uk
Anthony	Soroka	Cardiff University	SorokaAJ@cardiff.ac.uk
Simon	Parsons	University of Lincoln	sparsons@lincoln.ac.uk
Sandeep Singh	Sengar	Cardiff Metropolitan University	SSSengar@cardiffmet.ac.uk
Stella	James	Bionow	stella.james@bionow.co.uk
Steph	Oliver-Beech	West Yorkshire Combined Authority	stephanie.oliver-beech@westyorks-ca.gov.uk
Steve	Parr	SR Partners	steve.parr@srpartnersltd.com
Steven	Yule	University of Edinburgh	steven.yule@ed.ac.uk
Matthew	Stott	Cardiff University	Stottmi@cardiff.ac.uk
Suresh	perinpanayagam	University of York	suresh.perin@york.ac.uk
Susan	Shenkin	University of Edinburgh	susan.shenkin@ed.ac.uk
Susie	Maier	University of Bristol	susie.maier@bristol.ac.uk
Tillal	Eldabi	University of Bradford	t.a.eldabi@bradford.ac.uk
Tao	Chen	University of Surrey	t.chen@surrey.ac.uk
Tim	Chico	University of Sheffield	t.j.chico@sheffield.ac.uk
Tom	Macgillivray	University of Edinburgh	t.j.macgillivray@ed.ac.uk
Temitayo	Olugbade	University of Sussex	t.olugbade@sussex.ac.uk
Tiehan	Shen	University of Salford	t.shen@salford.ac.uk
Tanweer	Ahmed	Sheffield Hallam University	tanweer.ahmed@shu.ac.uk
Terry	Reed	AstraZeneca	terry.reed@astrazeneca.com
Tim	Smith	The University of Manchester	tim.smith@manchester.ac.uk



Timm	Krueger	University of Edinburgh	timm.krueger@ed.ac.uk
Timothy	Robbins	UHCW NHS Trust	timothy.robbins@uhcw.nhs.uk
Chris	Ugbolue	University of the West of Scotland	u.ugbolue@uws.ac.uk
Muhammad	Usman	Edge Hill University	usmanm@edgehill.ac.uk
Vivek	Dua	UCL	v.dua@ucl.ac.uk
viktorija	makarovaite	University of Kent	v.makarovaite-255@kent.ac.uk
Vinod	Vergheese	Manchester Metropolitan University	v.verghese@mmu.ac.uk
Vasa	Curcin	King's College London	vasa.curcin@kcl.ac.uk
Dina	Molnar	University of Bristol	vf22838@bristol.ac.uk
Malini	Vieyra	Cardiff University	vieyram@cardiff.ac.uk
Vincenzo	Abbate	King's College London	vincenzo.abbate@kcl.ac.uk
Wenjia	Bai	Imperial College London	w.bai@imperial.ac.uk
William	Holderbaum	University of Reading	w.holderbaum@reading.ac.uk
Wei	Yao	University of Salford	w.yao@salford.ac.uk
Sarah	Waters	University of Oxford	waters@maths.ox.ac.uk
Angharad	Watson	Cardiff University	watsonha1@cf.ac.uk
Wayne	Nishio Ayre	Cardiff University	wayre13@hotmail.com
Xiao-Qing	Wei	Cardiff University	weix1@cardiff.ac.uk
Wendy	Maltinsky	University of Stirling	wendy.maltinsky@stir.ac.uk
Wai Keung	Fung	EUREKA Robotics Centre, Cardiff School of Technologies, Cardiff Metropolitan University	WFung@cardiffmet.ac.uk
Will	Mueller	Institute of Occupational Medicine	will.mueller@iom-world.org
Wenda	Li	University of Dundee	wli001@dundee.ac.uk
Zhangming	Wu	Cardiff University	wuz12@cardiff.ac.uk
Xiaochun	Cheng	Middlesex University	x.cheng@mdx.ac.uk
Xiaochun	Cheng	Middlesex University	x.cheng@mdx.ac.uk
Xinjin	Liang	Queen's University Belfast	x.liang@qub.ac.uk
Xize	Niu	University of Southampton	x.niu@soton.ac.uk
Xin	Fei	University of Edinburgh	xfei@ed.ac.uk



Xianghua	Ding	University of Glasgow	xianghua.ding@glasgow.ac.uk
Xiaohui	Chen	The University of Manchester	xiaohui.chen@manchester.ac.uk
Xu	Xu	Sheffield Hallam University	xu.xu@shu.ac.uk
Yonghong	Peng	Manchester Metropolitan University	Y.Peng@mmu.ac.uk
Yang	Wei	Nottingham Trent University	yang.wei@ntu.ac.uk
Yang	Wei	Nottingham Trent university	Yang.wei@ntu.ac.uk
Yaochun	Shen	Liverpool University	ycshen@liverpool.ac.uk
Yehia	Elkhatib	University of Glasgow	yehia.elkhatib@glasgow.ac.uk
Yuni	Kim	University of Surrey	yuni.kim@surrey.ac.uk
yu yi	tan	giant supermarket	yuyi.tan@hotmail.com
yvonne	murray	University of the West of Scotland	yvonne.murray@uws.ac.uk
Zehor	Belkhatir	University of Southampton	z.belkhatir@soton.ac.uk
Zehor	Belkhatir	University of Southampton	z.belkhatir@soton.ac.uk
Zahraa	Abdallah	University of Bristol	zahraa.abdallah@bristol.ac.uk
Zahraa	Abdallah	University of Bristol	zahraa.abdallah@bristol.ac.uk
Zahraa	Al-Ahmady	Nottingham Trent University	zahraa.al-ahmady@ntu.ac.uk
Zainab	Haboobi	UWS	zimad85@outlook.com
Veronica	Blanco Gutiérrez	University of Bristol	zo22999@bristol.ac.uk
Zheng	Xie	University of Central Lancashire	zxie2@uclan.ac.uk
Zheng	Xie	University of Central Lancashire	zxie2@uclan.ac.uk



