

# Great Health Challenges



**Thursday 18 April 2013  
at MShed**

**“ I’m very happy to support TEDMED Live and sorry that I haven’t been able to join you on the day. TEDMED Live in Bristol is the first event of its kind in the UK, and another example of how the city is leading the way in terms of innovative thinking about today’s biggest challenges.**

**We have now taken over responsibility for public health in Bristol from the NHS, so thinking about new ways to tackle these issues is extremely timely and will make an invaluable contribution to our plans.**



**Please don’t make this a one off, but the start of a broader discussion about how we tackle these challenges together. ”**

**George Ferguson**  
*Mayor*

**“ A warm welcome to the launch of Bristol Health Partners - I know this will be a fantastic event and the first of many celebrating the many achievements of our researchers and clinicians across Bristol. ”**

Deborah Evans was previously Chief Executive of NHS Bristol and the Bristol, North Somerset and South Gloucestershire PCT Cluster. She has been a health service manager for almost 30 years, working in South Wales, Hampshire, London and the South West in a variety of hospital management and commissioning roles.

Deborah is Vice Chair of the South of England Specialised Commissioning Group and chairs the Bristol Research and Development Leaders Group.

Deborah has a longstanding commitment to supporting the development of health service research and has led Bristol's NHS and university collaboration (now Bristol Health Partners) since 2009. She was Interim Managing Director of the West of England Academic Health Science Network, leading it successfully to authorisation.



**Deborah Evans**

**“ Welcome to TEDMED Live Bristol 2013 where we are hosting the launch of Bristol Health Partners, a dynamic collaboration between four NHS trusts, Bristol’s two universities and Bristol City Council which brings a new approach to the way that innovative health benefits will be delivered to patients. ”**

Peter Mathieson qualified in Medicine with honours from London Hospital Medical College in 1983. After junior posts in London, he was awarded a PhD in 1992 from Cambridge University as an MRC training fellow. After a further MRC funded fellowship he moved to Bristol in 1995 as the foundation Professor of Renal Medicine at Bristol University and Honorary Consultant Nephrologist, North Bristol NHS Trust.

Peter was elected Fellow of the Academy of Medical Sciences in 1999. In 2007 he was elected as President of the Renal Association and also became Head of the University Department of Clinical Science at North Bristol. He was also appointed as Director of Research & Development for the North Bristol NHS Trust. Between 2003 and 2007 he chaired the Research Grants Committee of Kidney Research UK. He was a member of the Renal Association Clinical Trials committee from 1996 to 2007 and Chairman between 2000 and 2003. In 2008 Peter was appointed Dean of the Faculty of Medicine and

Dentistry. Following the formation of Bristol Health Partners, Peter was appointed as Director in May 2012, a role which he undertakes alongside the role of Dean with the University of Bristol.



**Professor Peter Mathieson**

*PhD, FRCP, FMed Sci,  
Director of Bristol Health Partners, University of Bristol*

**“ We hope that TEDMED Live Bristol is the start of something bigger - as well as the ideas you will hear what matters is the people you will meet and the conversations that begin. TEDMED Live Bristol is about reframing the way we think about the challenges we face, and building the relationships we need to tackle them. ”**



**David Relph**

*Head of Strategy and Business Planning, University Hospitals  
Bristol NHS Foundation Trust*

# Programme **for the morning**

Time	Session	Speaker
09:00	<b>Welcome</b>	
	The Bristol health system and a welcome to Bristol Health Partners	Deborah Evans & Peter Mathieson
09:20	<b>Role of the Patient</b>	
	What might a healthcare system built round patients look like?	Sarah Purdy
	Surgery, when to say "no"	Jane Blazeby
	How can we make apps that are actually useful?	Milan Bates
	Why medical research is better when patients are partners	John Kirwan & Pam Richards
	A 24/7 digital home health assistant: 'Big Sister' or 'Big Brother'?	Ian Craddock
	Will doctors unify as diseases diversify?	Richard Lee
10:30	<b>Promoting Innovation</b>	
	Experiences from London and Baltimore	David Fish, John Tooke & Edward Miller
11:00	<b>Morning break</b>	
11:30	<b>Open Session</b>	
	Delivering better birthdays	Tim Draycott
	Thinking big in organ regeneration	Anthony Hollander
	Thoughts that go bump in the night	Matt Jones
	The quantum pharmacy	Jeremy O'Brien
	Animation in healthcare	Heather Wright
	Radiology and robotics: minimal intervention, maximum impact	Mark Callaway
13:00	<b>Lunch</b>	

# for the afternoon

Time	Session	Speaker
14:00	<b>Dementia</b>	
	Why are health professionals unfaithful - why do we do research if we don't use its results?	Richard Gray
	Turning the tide of dementia: when do we need to treat?	Derek Hill
	Do I need a brain scan every year? Why population screening for dementia is bad for you	Chris Fox
14:30	<b>Open Session</b>	
	How our genes perform randomised trials	George Davey Smith
	Friend or foe - watching immune cells and cancer cells at war	Paul Martin
	I don't like the way I look	Nichola Rumsey
15:00	<b>Afternoon break</b>	
15:45	<b>Prevention</b>	
	Why is child injury inequitable?	Julie Mytton
	How vaccines really work	Adam Finn
	This place is killing me!	Gabriel Scally
	Are Xenon babies cooler babies?	Marianne Thoresen
	From microbes to motorcars: the public health challenges for Bristol	Janet Maxwell
17:00	<b>End of day</b>	
18:15	<b>TEDMED Live Bristol 2013 'People's Choice' Evening Public Event in association with the Festival of Ideas</b>	
	Dementia - Does everyone want early diagnosis? Discussion Panel: Peter Brindle, Richard Cheston, Richard Gray, Derek Hill, Chris Fox, Sarah Cullum, Anne Rollings and Derek Dominey	
19:45	<b>End of evening</b>	

# The speakers



## **Dr Sarah Purdy**

**Reader in Primary Health Care, University of Bristol, GP and Director of the Integration to Avoid Hospital Admission, Health Integration Team.**

Sarah is a researcher and a local GP. She has previously worked at Hull York Medical School, the University of Newcastle upon Tyne, Harvard University and for the Jackson Hole Group, a health care policy think tank. Sarah leads a research programme and a Health Integration Team (HIT) exploring predictors of, and interventions for, unscheduled care use and avoidable hospital admissions.



## **Professor Jane Blazeby**

**Professor of Surgery and Honorary Consultant Surgeon, University Hospitals Bristol NHS Foundation Trust and University of Bristol**

Jane studied medicine at Bristol University and completed surgical training in the South West of England. She has worked as a clinical academic and consultant surgeon in Bristol since 2000 currently directing the Bristol Surgical Trials Centre, the Medical Research Council (MRC) ConDuCT Hub for Trials Methodology Research in Bristol and leading three randomised surgical trials. She believes that effective collaboration between surgeons and methodologists will improve the design and conduct of surgical research which will contribute to raising standards of surgical practice world wide.



## **Mr Milan Bates**

**MD, FRCS, University Hospitals Bristol NHS Foundation Trust**

For the last 20 years Milan has been working in cardiac surgery at University Hospitals Bristol. In the last five years he has been pursuing his dream of developing innovations such as novel tracheal dressings and changing the ways we communicate with patients using modern technologies and social media. He works with colleagues in the Artificial Intelligence Research Group at the University of Bristol, the Microsoft Research Centre in Cambridge and the Fine Printing Department of the University of the West of England.



## **Professor John Kirwan**

**Consultant Rheumatologist and Professor of Rheumatic Diseases, University of Bristol and University Hospitals Bristol NHS Foundation Trust**

John coordinated the team that first showed unequivocally that glucocorticoids (often called 'steroids') are able to hold back the progress of rheumatoid arthritis. His research interests continue to centre on glucocorticoids and relate to new types of glucocorticoid treatment. He has been the Patient Partner Coordinator for OMERACT (Outcome Measures in Rheumatology) since 1998 and has led the extensive involvement of patients as research and teaching partners.



## **Pam Richards**

**Patient Research Partner, Academic Rheumatology Unit, University Hospitals Bristol NHS Foundation Trust**

Pam Richards has worked primarily at the University of Bristol as a research partner on a number of local and international rheumatology project steering groups. Drawing on her experiences, she acts as an advisor on patient participation and also helps support the team of research partners based in Bristol. She was, until 2012 Chair of Outcome Measures in Rheumatology patient panel.



## **Professor Ian Craddock**

**Research Director for the Merchant Venturers School of Engineering, University of Bristol, and Managing Director of the Toshiba Telecommunications Laboratory, Bristol**

Ian is a Professor of Electronic Engineering. He has been working with clinical scientists and NHS clinicians for the last decade, developing and trialling a new cancer imaging modality. He sits on the Steering Board of the University's Elizabeth Blackwell Health Research Institute and is Director of the new EPSRC funded research centre SPHERE on healthcare sensing. He is also employed part time by Toshiba as Managing Director of their Telecommunications Research Lab, also in Bristol.



## **Dr Richard Lee**

**Lead for Experimental Medicine, Inflammation and Immunotherapy Theme, National Institute for Health Research Biomedical Research Centre for Ophthalmology**

Richard is a clinician and a scientist. He works as part of an international team of researchers in the field of inflammatory eye disease. His main interest is the development of personalised approaches to the diagnosis and treatment of this leading cause of blindness.



## **Professor David Fish**

**Managing Director UCL Partners Academic Health Science Centre**

David took up the post of Managing Director of UCL Partners in June 2009. UCL Partners (UCLP) is one of England's five academic health science centres. The partnership has grown to include nine HEIs and NHS providers across NEL, NCL, South & West Herts, South Beds, South, West and Mid Essex - serving 6 million people. UCLP is currently bidding to also become one of 15 designated Academic Health Sciences Networks across England. David has been Chair of the interim North Central and East London Local Education and Teaching Board (LETB) during its development - now handing over that role to Dame Christine Beasley who has been appointed substantively. David was previously Medical Director Specialist Hospitals Clinical Board at UCL Hospitals NHS Foundation Trust for nine years. This was a full-time clinical leadership role in the NHS at a first wave foundation trust. He previously worked as an academic clinical neurologist at the National Hospital for Neurology & Neurosurgery. 2008 - 2011. David also held the post of Chair of the Medical Advisory Group supporting Monitor.



## **Professor Sir John Tooke**

### **Vice Provost (Health), UCL, and Academic Director UCL Partners**

Professor Sir John Tooke is Vice Provost (Health) and Head of the School of Life & Medical Sciences and the Medical School at UCL, Academic Director of UCL's Academic Health Science Centre, UCL Partners, and President of the Academy of Medical Sciences. In 2007 he led the Inquiry for the Secretary of State for Health into Postgraduate Medical Education and Training, culminating in the final report, "Aspiring to Excellence". In the same year he led a high-level group for the Chief Medical Office on Barriers to Clinical Effectiveness, the report which led to the creation of CLAHRCs (Collaborations for Leadership in Applied Health Research and Care).



## **Dr Edward D. Miller**

### **Former Chief Executive Officer of Johns Hopkins Medicine**

Dr Edward Miller was named Chief Executive Officer of Johns Hopkins Medicine, the 13th Dean of The Johns Hopkins University School of Medicine and Vice President for Medicine of The Johns Hopkins University in January 1997. His appointment followed a year long national search for the first ever CEO of Johns Hopkins Medicine, a then new organisation that formally integrated operations and planning of the School of Medicine with the Johns Hopkins Health System and Hospital to ensure their continued pre-eminence in education, discovery and patient care. As CEO, Dr Miller was responsible for both the school and the health system and reported directly to the University President and the Chairman of the Board of Johns Hopkins Medicine.



## **Dr Tim Draycott**

### **Consultant Senior Lecturer in Obstetrics**

Tim is a consultant obstetrician with a research interest in patient safety, particularly multi-professional training, simulation, team working and reducing preventable harm in intrapartum care - delivering better birthdays. He currently holds a Health Foundation Improvement Science fellowship to investigate the effects of context on training outcomes.



## **Professor Anthony Hollander**

### **Head of Cellular & Molecular Medicine, University of Bristol**

Anthony studies the use of stem cells for cartilage repair in arthritis and other diseases. In 2008, he and a team of scientists and surgeons successfully created and then transplanted the first tissue-engineered trachea (windpipe), using a patient's own stem cells. The bioengineered trachea immediately provided the patient with a normally functioning airway, thereby saving her life. He is co-founder and Scientific Director of Azellon Cell Therapeutics and President of The International Cartilage Repair Society.



## **Dr Matt Jones**

### **Medical Research Council Senior Research Fellow, School of Physiology and Pharmacology, University of Bristol**

Matt has obsessed over various parts of the mammalian nervous system, studying spinal cord as a student in Cambridge and Bristol, hippocampus at the National Institute for Medical Research and frontal cortex at MIT. Matt is now preoccupied by attempting to join the dots, and his team uses electrophysiological recordings to define the nature of neural network interactions during learning, memory and decision making. The lab also has a healthy obsession with ill health; one current focus is on using stimulation to realign decoupled network activity in psychiatric disease.



## **Professor Jeremy O'Brien**

### **Professor of Physics & Electrical Engineering, Director, Centre for Quantum Photonics, University of Bristol**

Jeremy's interests range from the fundamental and applied quantum mechanics at the heart of quantum information science and technology, ranging from prototypes for scalable quantum computing to generalised quantum measurements, quantum control, and quantum metrology.



## **Heather Wright**

### **Executive Producer/Head of Partner Content, Aardman Animation**

After a number of years in the advertising industry at companies like Saatchi & Saatchi and Chiat/Day, followed by eight years as a television producer making commercials, Heather joined Aardman 14 years ago and is responsible for bringing in new business, sourcing and developing the talents of the directors and producers and, as part of the management team, contributing to the overall company strategy.



## **Dr Mark Callaway**

### **Consultant Radiologist, University Hospitals Bristol NHS Foundation Trust and Bristol Robotics Laboratory, University of the West of England**

Mark is a gastro-intestinal radiologist specialising in liver disease and intervention. He trained in radiology in Manchester and Bristol where he has been a consultant since 1998. He has always been interested in medical innovation and recently teamed up with Professor Chris Melhuish at the Bristol Robotics Laboratory to work on the fusion of robotics and imaging.



## **Dr Richard Gray**

### **Professor of Mental Health, University of the West of England**

Richard is mostly interested in how we get people to comply with health interventions and if they don't (and they usually don't) to better understand why not. He has done many clinical trials testing out different ways of getting patients (and indeed health professionals) to adhere to treatment; some of which have been successful. By profession he is a mental health nurse. He trained and worked for many years at the Maudsley Hospital in South London.





## **Mr Derek Hill**

### **Chief Executive IXICO**

Derek is co-founder and Chief Executive of IXICO, an imaging company that provides imaging biomarkers for use in many global trials of potential new treatments for Alzheimer's Disease and other neurological conditions. These tools are now being translated into medical devices to support diagnosis. Derek is a member of the Prime Minister's Research Champion Group for Dementia. He previously worked in academic research, as Professor of Medical Imaging Sciences at UCL (a post he still holds on leave of absence).



## **Dr Chris Fox**

### **Clinical Senior Lecturer in Psychiatry, Chair of the University of East Anglia (UEA) Dementia Research Innovation Group, and DeNDRoN Eastern Region Dementia Research Director.**

Chris' main areas of work have involved evidence based mental health, pharmacological and non-pharmacological interventions in dementia. Chris has developed areas of dementia health service research in primary care and acute hospital settings. His current research themes are focused on enhancing care for patients with established dementia and improving early intervention and prevention strategies in the UK and internationally.



## **Professor George Davey Smith**

### **Professor of Clinical Epidemiology and ALSPAC Scientific Director, University of Bristol**

George's major research interest relates to the use of genetic epidemiology for informing understanding of the causal influence of environmentally modifiable risk factors and how social inequalities in health are generated by exposures acting over the entire lifecourse. He is Scientific Director of the Avon Longitudinal Study of Parents and Children (ALSPAC), Director of the MRC Centre for Causal Analyses in Translational Epidemiology and Professor of Clinical Epidemiology at the University of Bristol.



## **Professor Paul Martin**

### **Professor of Cell Biology, School of Biochemistry, University of Bristol**

Paul's lab has always worked on wound healing and he has established models to study repair and inflammation in mouse and zebrafish and Drosophila. The current focus of his work is to investigate the genetics and cell biology of wound inflammation, in order to learn how best to modulate the inflammatory response to prevent fibrosis, and identifying parallels between wound and cancer-triggered inflammation. Paul first set up a lab in Oxford University, then UCL and moved to Bristol nine years ago.



## **Professor Nichola Rumsey**

### **Co-Director, Centre for Appearance Research, Department of Psychology, University of the West of England**

Nichola is VTCT Professor of Appearance Research at UWE and is Co-Director of the Centre for Appearance Research - a group of 25 psychologists specialising in the fields of body image and disfigurement. Nichola completed her PhD on the psychology of facial disfigurement in 1986, and has since built an international reputation as a leading researcher in this field.



## **Dr Julie Mytton**

### **Associate Professor of Child Health at University of the West of England, Bristol and Consultant in Child Public Health at Bristol City Council**

Julie trained at St Bartholomew's Hospital, London and worked in general practice and community paediatrics before public health. She has been in Bristol since 2004 and now works to improve health outcomes for children and young people across the city whilst developing research in child injury prevention.



## **Professor Adam Finn**

### **Professor of Paediatrics, University of Bristol and Paediatric Consultant, University Hospitals Bristol NHS Foundation Trust**

Adam Finn is a paediatrician from Bristol. Like lots of people, he thinks that prevention is better than cure, but he doesn't think that too many cooks spoil the broth. He really likes explaining science and medicine to anyone who will listen and he likes hearing what other people think too, especially children and other people who don't think they are experts but are interested. Apart from cycling, his favourite thing is communicating with people as a way of getting and sharing ideas.



## **Professor Gabriel Scally**

### **Director of the World Health Organisation Collaborating Centre for Healthy Urban Environments, University of the West of England.**

Born and brought up in Belfast, Gabriel studied medicine and went on to train in general practice and public health. He has been a public health leader in England for 20 years and in addition to his academic post is active with the Soil Association and the Institute for Public Policy Research. He has written and published widely in the professional press.



## **Professor Marianne Thoresen**

### **Professor of Neonatal Neuroscience, School of Clinical Sciences, University of Bristol, and Consultant Neonatologist, University Hospitals Bristol NHS Foundation Trust**

Marianne is a paediatrician specialising in newborn intensive care with an interest in brain protective treatment. She led the development of cooling therapy for babies suffering lack of oxygen, a treatment that has become standard of care world-wide. Currently her team runs a randomised clinical trial letting cooled babies also breathe the inert gas Xenon. She also holds a Chair in Physiology at the University of Oslo, Institute of Basic Medical Sciences in Norway.



## **Janet Maxwell**

### **Strategic Director of Public Health, Bristol City Council**

The challenges for public health have shifted from a simple epidemiological transition from infectious disease to those of long term conditions, to a complex picture of multiple and fast moving transitions. Will the move of the public health responsibility back into local authorities enable us to address these challenges more effectively? Janet has taken up the role of Strategic Director of Public Health at Bristol City Council as this organisational restructuring is taking place and will give some insights into how she views the opportunities and challenges ahead.

## Bristol Health Partners

Bristol Health Partners is the collaboration between local health trusts and the two universities working alongside the city council.

Bristol Health Partners mission is to generate significant health gain and improvements in service delivery in Bristol by integrating, promoting and developing Bristol's strengths in health services, research, innovation and education.

Partners and members include **Avon and Wiltshire Mental Health Partnership NHS Trust; Bristol City Council; Bristol Clinical Commissioning Group; North Bristol NHS Trust; North Somerset Clinical Commissioning Group; South Gloucestershire Clinical Commissioning Group; University Hospitals Bristol NHS Foundation Trust and the two Universities are the University of Bristol and the University of the West of England.**

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**Bristol Health  
Partners**