



FORUM Annual Lecture 2014

Horizon scanning: looking ahead to 2025

27 March 2014

The Royal Academy of Engineering, London



We will be filming and taking photographs at the FORUM Annual Lecture. A small number of journalists are also registered to attend. If you do not wish to have your photograph taken, please make yourself known to an Academy staff member at the start of the meeting.

Programme

14:00 – 14:30	Registration and refreshments
14:30 – 14:35	Welcome and introduction Professor Sir John Tooke PMedSci, <i>President, Academy of Medical Sciences</i>
14:35 – 14:50	Academia Professor Dame Nancy Rothwell FRS FMedSci, <i>President and Vice-Chancellor, University of Manchester</i>
14:50 – 15:05	Industry Professor Patrick Vallance FMedSci, <i>President, Pharmaceuticals R&D, GlaxoSmithKline</i>
15:05 – 15:20	NHS Professor Sir Malcolm Grant CBE, <i>Chair, NHS England</i>
15:20 – 15:35	Regulatory Sir Gordon Duff FRSE FMedSci, <i>Chairman, Medicines and Healthcare Products Regulatory Agency</i>
15:35 – 16:35	Panel Discussion Session with Q&A Chaired by Professor Sir John Tooke PMedSci
16:35 – 16:40	Closing comments from the President Professor Sir John Tooke PMedSci
16:40 – 17:00	Refreshments
17:00	Close



@acmedsci

#AMSHorizon2025

The logo for FORUM features the word "FORUM" in a large, bold, red, sans-serif font. Above the letters "O" and "U" are two red speech bubble icons, one slightly overlapping the other, pointing towards the right.

FORUM

'The Academy's FORUM provides an independent platform where stakeholders from across the life sciences sector can connect and take forward national discussions on scientific opportunities and technology trends'

Professor Sir John Bell FRS HonFREng FMedSci, Regius Professor of Medicine, University of Oxford & Government Bioscience Advisor

The Academy's FORUM was established in 2003 to catalyse connections across industry, academic and healthcare sectors.

Through the FORUM we aim to promote:

- **Sustainable translation of research outputs into health and wealth gains**, by exploring new models of:
 - Regulating and governing health research that keep pace with scientific and technological developments.
 - Partnerships and funding in the discovery and development pipeline of medical innovations.
- **A vibrant innovation ecosystem**, by encouraging organisations from academia, industry and the healthcare sector to collaborate and share expertise, skills and resources to address new health, scientific and economic challenges.
- **A strong UK industry**, by fostering an environment that attracts and retains pharmaceutical companies in the UK, supports home-grown biotechnology and medical device companies, and encourages entrepreneurs and investors to establish new enterprises.

Professor Sir John Tooke

PMedSci

President, Academy of Medical Sciences



Professor Sir John Tooke is Vice Provost (Health), Head of the School of Life & Medical Sciences, and Head of the Medical School at UCL, Academic Director of UCL's Academic Health Science Centre, UCL Partners, and Co-Chair of the Oxford-UCL Centre for the Advancement of Sustainable Medical Innovation (CASMI). Sir John is President of the Academy of Medical Sciences and a past Chair of both the Medical Schools Council and the UK Healthcare Education Advisory Committee (UKHEAC). He is a member of the National Institute for Health Research (NIHR) Advisory Board and the Council for Science and Technology. His clinical and research interests focus on diabetes and its vascular complications and he is a recipient of the European Association of Diabetes Camillo Golgi Award. He is former Chair of Diabetes UK Professional Section and former President of the European Society for Microcirculation. The University of Exeter was awarded a Queen's Anniversary Prize for his work on the pathogenesis of diabetic microangiopathy. In addition to more fundamental work on the complications of diabetes his research has embraced screening and service delivery and organisational issues and the patient's perspective. 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 CMO on Barriers to Clinical Effectiveness, the report of which led to the creation of CLAHRCs (Collaborations for Leadership in Applied Health Research and Care).

Professor Dame Nancy Rothwell FRS FMedSci

President and Vice-Chancellor, University of Manchester



Professor Rothwell took up the post of President & Vice-Chancellor of the University in July 2010. She is the first woman to lead The University of Manchester or either of its two predecessor institutions. She is also Professor of Physiology, and has previously held an MRC Research Chair, as well as holding University positions as Vice-President for Research and as Deputy President & Deputy Vice-Chancellor. Professor Rothwell's research in the field of neuroscience has contributed towards major advances in the understanding and treatment of brain damage in stroke and head injury. She was elected a Fellow of the Academy of Medical Sciences in 1999 and of the Royal Society in 2004, and made Dame Commander of the Order of the British Empire in June 2005, in recognition of her services to science. She is the founding President of the Society of Biology, a non-executive Director of AstraZeneca, co-Chair of the Prime Minister's Council for Science and Technology, a Royal Society Council member, a Deputy Lieutenant for Greater Manchester and a member of the Greater Manchester Local Enterprise Partnership (LEP) Board. Professor Rothwell takes a strong and active interest in public communication of science and regularly gives talks to schools and the public and contributes to television, radio and press, particular on sensitive issues in science.

Professor Patrick Vallance FMedSci

President, Pharmaceuticals R&D, GlaxoSmithKline

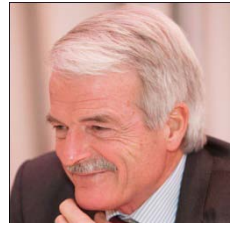


Professor Vallance was appointed President of R&D at GSK, in January 2012. Prior to his appointment he was Senior Vice President, Medicines Discovery and Development. He is a member of the Corporate Executive Team. As president of R&D he is responsible for ensuring that GSK maintains a flow of new medicines through the R&D pipeline from early discovery through to approval.

Professor Vallance joined the company in May 2006 as Head of Drug Discovery. He transformed GSK's discovery engine to focus on therapy areas that are underpinned by the most promising and mature science, and which offer fresh insights into diseases. Prior to joining GSK, Professor Vallance was a clinical academic and led the Division of Medicine at University College London. He has over 20 years' experience of clinical medicine, general internal medicine, cardiovascular medicine and clinical pharmacology. He was elected to the Academy of Medical Sciences in 1999 and subsequently became its Registrar before he joined GSK. Professor Vallance has been on the Board of the Office for Strategic Co-ordination of Health Research (OSCHR) since 2009.

Professor Sir Malcolm Grant CBE

Chair, NHS England



Sir Malcolm is a barrister and academic lawyer. From 2003-2013 he was the President and Provost of University College London. He has served as Chair of the Local Government Commission for England, of the Agriculture and Environmental Biotechnology Commission and the Russell Group. He is currently a board member of the Higher Education Funding Council for England and of the University Grants Committee of Hong Kong; and he serves as a UK Business Ambassador. As chair of NHS England, he provides strategic leadership and ensures proper governance for the board.

Sir Gordon Duff FRSE FMedSci

Chairman, Medicines and Healthcare Products Regulatory Agency



Sir Gordon Duff became Chairman of the MHRA on 1 January 2013 on retiring as Chair of the Commission on Human Medicines (CHM). Prior to that he co-Chaired the UK's Scientific Advisory Group for Emergencies (SAGE), was Chair of the Emergency Quality Panel and Chair of the Scientific Pandemic Influenza Committee. Sir Gordon was also Lord Florey Professor of Molecular Medicine at the University of Sheffield since 1990. He also currently chairs the Strategic Partners Board of Imperial College's Academic Health Science Centre. He was knighted in 2007 for services to the public health.

Attendees

Name	Position	Organisation
Dr Christiane Abouzeid	Head of Regulatory Affairs	BioIndustry Association
Miss Wafa Abutaleb	PhD student	University of Oxford
Dr Yoshitsugu Aoki	Postdoc	University of Oxford
Dr Maryam Atakhorrani	Industrial Partnership Manager	University College London
Mr Miles Ayling	Director of Innovation	NHS England
Dr Caroline Aylott	Head of Research Awards & Translation	Arthritis Research UK
Ms Kate Baillie	Chief Executive Officer	Biochemical Society
Dr Mark Bale	Interim Director, Health Science and Bioethics	Department of Health
Ms Catherine Ball	Science Policy Officer	Biochemical Society
Dr Tom Barlow	Scientist	Department of Health
Ms Colby Benari	Programme Officer	Academy of Medical Sciences
Mr Ben Bleasdale	Intern	Academy of Medical Sciences
Dr Helen Bodmer	Head, MRC and Health Research Team	Department for Business, Innovation & Skills
Mr Guy Boersma	Managing Director	Kent Surrey Sussex Academic Health Science Network
Ms Elizabeth Bohm	Senior Policy Adviser	Royal Society
Sir Alasdair Breckenridge CBE FRSE FMedSci	Chairman of Emerging Science and Bioethics Advisory Committee.	Emerging Science and Bioethics Advisory Committee
Mr Daniel Bridge	Policy Manager	Cancer Research UK
Dr Suzanne Candy	Director, Biomedical Grants and Policy	Academy of Medical Sciences
Dr Omer Casher	Director	Imaqa
Dr Andrew Clempson	Research Policy Manager	Association of Medical Research Charities
Professor John Collinge CBE FRS FMedSci	Professor of Neurology, Director of the MRC Prion Unit and Head of the Department of Neurodegenerative Disease	University College London
Sir David Cooksey GBE FMedSci	Chair	The Francis Crick Institute
Dr Claire Cope	Policy Officer	Academy of Medical Sciences
Dr Nathan Cope	Principal Consultant	PA Consulting
Mr Nick Cork	Medical student	University of Cambridge
Professor Janet Darbyshire CBE FMedSci	Emeritus Professor of Epidemiology, University College London, Honorary Senior Scientist, MRC Clinical Trials Unit	University College London
Mr John de Pury	Assistant Director of Policy	Universities UK
Dr Michael Devine	Academic Clinical Lecturer	University College London
Ms Rebecca Devlin	Intern	Academy of Medical Sciences
Dr Mark Downs	Chief Executive	Society of Biology
Ms Emma Du Four	Senior Director Regulatory Policy	AbbVie
Dame Karen Dunnell	Trustee	National Heart Forum
Dr Nigel Eady	Programme Manager	Academy of Medical Sciences
Dr Mark Edwards	R&D Director	Ethical Medicines Industry Group
Mr Finlay Edridge	Principal Consultant	PA Consulting
Mr Javier Elkin	PhD student	University College London

Name	Position	Organisation
Dr Catherine Elliott	Director, Clinical Research Interests	Medical Research Council
Dr Robin Fears	Biosciences Programme Secretary	European Academies Science Advisory Council
Mr Felipe Fouto	Programme Officer	Academy of Medical Sciences
Dr David Fox	Industry Associate	Royal Society of Chemistry
Mr Leslie Galloway	Chairman	Ethical Medicines Industry Group
Dr Paul Gerskowitch	Transaction Advisor	
Dr John Gordon	Commercial Director/Entrepreneur in Residence	Glasgow University
Professor Edward Gordon-Smith FMedSci	Emeritus Professor of Haematology	St George's, University of London
Dr David Griffiths-Johnson	Head of Innovation, Office for Life Sciences	Department for Business, Innovation & Skills
Dr Jim Hagan	Chief Executive Officer	Global Medical Excellence Cluster, King's College London
Dr Jeremy Haigh	European Chief Operating Officer, Research & Development	Amgen
Dr Mike Hardman	VP IMI Collaborations	AstraZeneca
Dr Peter Harris	Chief Medical Officer	Autifony Therapeutics Ltd
Professor Graham Hart FMedSci	Dean, Faculty of Population Health Sciences	University College London
Mr Nick Hillier	Head of Communications and Corporate Events	Academy of Medical Sciences
Professor Richard Horton FMedSci	Editor-in-Chief	The Lancet
Professor James Ironside CBE FMedSci	Professor of Clinical Neuropathology	University of Edinburgh
Sir Miles Irving FMedSci	Emeritus Professor	
Sir Roland Jackson Bt	Executive Chair	Sciencewise
Dr Edwin Jesudason	Reader	University of Liverpool
Professor Derek Jewell FMedSci	Professor Emeritus of Gastroenterology	University of Oxford
Dr Stuart Kendrick	GSK Fellow	Newcastle University, Institute of Cellular Medicine
Dr Hannah Kerr	Head of R&D Policy and Scientific Affairs	GlaxoSmithKline
Dr Jeff Kipling	Director R&D Policy	GlaxoSmithKline
Professor Henry Kitchener FMedSci	Professor of Gynaecological Oncology	University of Manchester
Dr Richard Knowles	Chief Executive Officer	Arachos Pharma Ltd
Mr Andrew Lawrence	Managing Director	Monmouth Partners
Mr Maximilian Lee		
Dr Melanie Lee CBE FMedSci	Chief Executive Officer	NightstaRx Ltd
Dr Wen Hwa Lee	Strategic Alliances Manager	Structural Genomics Consortium
Professor Thomas Lehner CBE FMedSci	Professor of Basic and Applied Immunology	King's College London
Dr Louise Leong	Director of Research and Development Policy	Association of the British Pharmaceutical Industry
Dr Melissa Lewis-Brown	Grants Manager	Academy of Medical Sciences
Mr Shaun Lintern	Journalist	Health Service Journal & Nursing Times

Name	Position	Organisation
Mr Tom Livermore	PhD student	University College London
Professor Jose Madrigal FMedSci	Professor of Haematology at UCL and Scientific Director of Anthony Nolan Research Institute	University College London
Dr Kelly Makarona	Grants Officer	Academy of Medical Sciences
Dr Richard Malham	Senior Policy Officer	Academy of Medical Sciences
Mr Alex Matthews-King	Reporter	
Mr Dimitrios Mavrelou	Academic Clinical Lecturer	University College London
Dr Linda Maxwell	Physician & NHS Partnership Leader	Isis Innovation Ltd, University of Oxford
Dr Gautam Mehta	Wellcome Trust Research Fellow	University College London
Ms Ruth Meyer	Publications and Policy Manager	British Pharmacological Society
Professor Jonathan Montgomery	Chair	Nuffield Council on Bioethics
Dr Julia Moore	Emerging Issues, Government Performance Group	The Pew Charitable Trusts
Dr Declan Mulkeen	Chief Science Officer	Medical Research Council
Dr Helen Munn	Executive Director	Academy of Medical Sciences
Dame Bridget Ogilvie AC DBE FRS FMedSci	Fellow	
Dr Michael Owen FMedSci	Director of MRC Centre for Neuropsychiatric Genetics & Genomics and Dean of Research at the Cardiff University School of Medicine	Cardiff University
Dr Kathryn Owen	Healthcare Ventures Associate	Imperial Innovations
Dr Chris Parker	Managing Director	West Midlands Academic Health Science Network
Dr Uday Patel	Consultant Radiologist	Royal Marsden Hospital
Mr Timothy Payne	Osteopath	
Professor Jeremy Pearson FMedSci	Associate Medical Director (Research) and Emeritus Professor of Vascular Biology, King's College London	British Heart Foundation
Professor Marcus Pembrey FMedSci	Emeritus Professor of Paediatric Genetics	University of Bristol
Sir Denis Pereira Gray OBE FMedSci	Fellow	
Dr Martino Picardo	Chief Executive Officer	Stevenage Bioscience Catalyst
Ms Rosie Pigott	Project Manager	Centre for the Advancement of Sustainable Medical Innovation
Baron Peter Piot CMG FMedSci	Director and Professor of Global Health	London School of Hygiene and Tropical Medicine
Dr Claire Potter	Operations Manager	NIHR Office for Clinical Research Infrastructure
Dr Rachel Quinn	Director, Medical Science Policy	Academy of Medical Sciences
Professor Martin Raff CBE FRS FMedSci	Emeritus Professor of Biology	University College London
Dr Bina Rawal	Research, Medical and Innovation Director	Association of the British Pharmaceutical Industry
Professor Geraint Rees FMedSci	Director of the Institute of Cognitive Neuroscience	University College London

Name	Position	Organisation
Ms Holly Rogers	Communications Officer	Academy of Medical Sciences
Ms Alison Rojo	PA to the Executive Director	Academy of Medical Sciences
Mr Samuel Roseveare	Policy Researcher	Universities UK
Dr Mahesh Sangrithi	Clinical Lecturer	National Institute of Medical Research
Dr Geoffrey Scott		
Mr Sing Yue Sim	Student doctor	University of Cambridge
Professor Elizabeth Simpson OBE FRS FMedSci	Emeritus Professor of Transplantation Biology	Imperial College London
Professor Peter Smith CBE FMedSci	Professor of Tropical Epidemiology	London School of Hygiene and Tropical Medicine
Mr Laurie Smith	Senior Policy Advisor	Royal Society
Mr Simon Steele		
Professor David Thompson FMedSci	Professor of Gastroenterology	University of Manchester
Professor Stephen Tomlinson CBE FMedSci	Emeritus Professor of Medicine	Cardiff University
Dr Laura Tookman		
Emeritus Professor Edward Tuddenham FMedSci	Emeritus Professor of Haemophilia	University College London
Lord Leslie Turnberg of Cheadle FMedSci	Fellow	
Dr Martin Turner	Senior Policy Officer	Association of Medical Research Charities
Dr Ian Viney	Director of Evaluation	Medical Research Council
Mr Fergus Walsh	Medical Correspondent	British Broadcasting Corporation
Mr Oliver Waterhouse	Consultant	
Professor Robin Weiss FRS FMedSci	Professor of Viral Oncology	University College London
Mr Andrew Whiles	Director of Regulatory Affairs	Pfizer
Ms Eleanor White	Student	University of Exeter
Professor Roger Williams CBE FMedSci	Director	Foundation of Liver Research
Ms Doris-Ann Williams MBE	Chief Executive	British In Vitro Diagnostics Association
Dr Gary Wilson	Programme Executive - Neuroscience	The Gatsby Charitable Foundation
Dr Julia Wilson	Associate Director of External Relations	Wellcome Trust Sanger Institute
Professor Patricia Woo CBE FMedSci	Emeritus Professor of Paediatric Rheumatology	University College London
Sir Kent Woods FMedSci	Chairman	European Medicines Agency
Dr Hakim Yadi	Chief Executive	Northern Health Science Alliance Ltd
Dr Naho Yamazaki	Head of Policy	Academy of Medical Sciences
Dr Helen Yarwood	Lecturer	Imperial College London
Dr Jamie Zhan	Analyst	Kinapse



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