



HEALTH SERVICES
LABORATORIES

WEDNESDAY 25TH
NOVEMBER 2015



1ST ANNUAL RESEARCH & INNOVATIONS SYMPOSIUM

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Date: 25th November 2015

Dear Delegates,

I would like to welcome you to our 1st Annual HSL Research and Innovations Symposium.

Health Services Laboratories (HSL) is a truly joint venture between UCLH, the Royal Free London and The Doctors Laboratory (TDL) which will combine the best from each partner, whilst working closely with key clients such as North Middlesex University Hospital, translating innovative and effective solutions into clinical practice. The NHS and their academic partners are at the forefront of many areas of medical science, while the input from TDL will allow this research to be translated and disseminated into clinical practice more rapidly.

As you might expect, it has not been possible to present all the research activities that are ongoing within the wider campus at this initial symposium, but I hope the examples we have selected today will be both interesting and instructional.

We are planning to make this an annual event and to make that a success we need your feedback on today's meeting. Please complete the CPD forms and leave them on the admissions desk at the close of the meeting. The following CPD credits will be awarded for attending today's event;
RCPATH members - 4 credits, IBMS member - 6 credits.

Yours Sincerely

Professor Michael Patton

Group Medical Director
HSL Pathology LLP

USEFUL EVENT INFORMATION

Thank you for attending the HSL Research & Innovations Symposium, 2015. We hope this will be an educational and enlightening day - and that you'll use the information you obtain in your daily work. Although we intend today to run in a relaxed manner, we have several polite requests to ensure the smooth running of the event.

Registration Desk

The first desk you will see when entering the "Williams Lounge" (the trade show area), is the event registration desk. This will be manned throughout the day so please visit here to pass on any feedback or to ask a question.

CPD Points

Attending the HSL Research & Innovations Symposium will earn 4 credits for RCPATH members and 6 credits for IBMS members. However it is important that you complete the CPD survey which you will find in your delegate pack, if you wish to obtain these points. IBMS members will receive an additional credit certificate when they leave - please request this at the registration desk.

Sponsors

We hope that you take the opportunity to network with our sponsors during the regular refreshment breaks scheduled throughout the day. The trade show area will become quite crowded so we ask that you are patient when moving around the venue. Please do not discard plates or cups on the exhibition stands. There is an additional "green room" area available should you wish to set up meetings or have a private conversation with sponsors - please ask at the registration desk for further information.

Venue Times

We ask all delegates to adhere to the times shown on the itinerary. The Wellcome Collection are hosting another event directly after the HSL R&I Symposium has ended. Therefore we politely ask that all delegates, sponsors and staff have vacated the venue by 5:15pm.

Photography

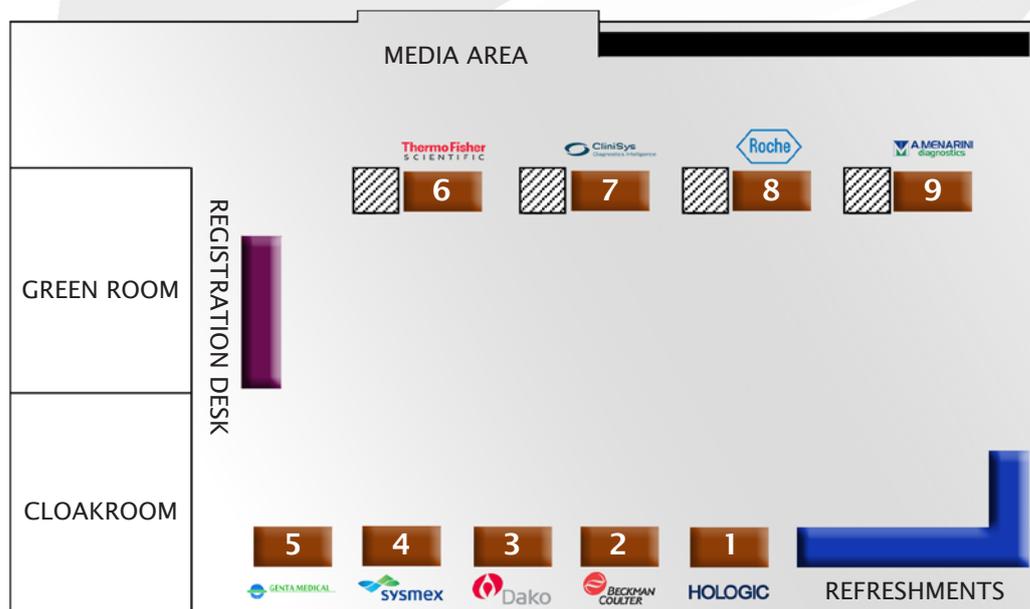
Both HSL and the Wellcome Collection ask that no photography is taken outside of the Auditorium or the trade show area. There will be an official photographer documenting the day. Some of these images will feature in the HSL newsletter and on the HSL website. If you wish to NOT be included in any photography, please mention this at the registration desk.

Media Area

The Wellcome Collection has free wifi throughout the building as well as a media area situated in the trade show area with free PCs for all delegates to use.

Exhibitor List

- 1 - Hologic
- 2 - Beckman Coulter
- 3 - Dako UK
- 4 - Sysmex UK
- 5 - Genta Medical
- 6 - Thermo Fisher
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WHO ARE THE SPEAKERS?



Prof. Michael Patton - Group Medical Director HSL Pathology
Session Chair @ 9:30am, 1:25pm & 4:15pm

Professor Patton has been the Medical Director of TDL Pathology since 2012, becoming Medical Director of HSL Pathology when the Joint Venture was established in April 2015.

Prior to this he worked at St Georges establishing the South West Thames Region Genetic Service (serving a population of 3 million) with outpatient services and diagnostic laboratories. He also established the Academic Department of Medical Genetics at St Georges University of London and supervised 12 PhD /MD students. Professor Patton can boast a vast number of publications with over 200 peer reviewed papers to date and was also instrumental in the discovery of 10 disease genes.

Professor Patton was Dean of Enterprise and Innovation at St Georges and is also founder and Trustee for the Newlife Foundation (formerly Birth Defects Foundation) which has raised over £30m to support medical research and specialist equipment for disabled children.



Prof. Bryan Williams - Director of the NIHR UCLH/UCL Biomedical Research Centre
Session Chair @ 9:35am

Bryan Williams is Chair of Medicine at University College London and Director of the National Institute for Health Research (NIHR) College London Hospitals Biomedical Research Centre. He is also the Director of Research for UCL Hospitals NHS Foundation Trust. He is a Consultant Physician at UCL Hospitals and a NIHR Senior Investigator and a member of the NIHR Strategy Board. He's National Co-Chairman of the Cardiovascular Specialty Group for the NIHR Comprehensive Research Network. He was previously Professor of Medicine (1996-2012) and Chairman of the Division of Medicine at the University of Leicester School of Medicine, UK. He

graduated from the University of London in 1983 and completed his clinical and research training in London, Leicester, and at the University of Colorado Health Sciences Center in Denver, Colorado, USA.

His research and clinical practice is in the field of hypertension in which he is recognised as one of the world's leading authorities. His research in the sphere of human experimental medicine focusses on developing clinically applicable models for the human non-invasive assessment of aortic pressure and haemodynamics, in which he published the most cited and influential paper in the field - credited with driving an exponential rise in clinical device and technology development.



Prof. Stephen Powis - Medical Director & Professor of Renal Medicine, RFL
Session Chair @ 11:10am

Stephen Powis is professor of renal medicine at University College London. He joined the Royal Free Hospital in 1997 as a consultant, becoming the trust's medical director in 2006. His main clinical interest is renal transplantation.

He is the chairman of the Association of UK Universities Medical Directors group and a board member of Merton Clinical Commissioning Group. He is a past non-executive director of North Middlesex University Hospital NHS Trust, including a period of eight months as acting chairman.

He is a past chairman of the Joint Royal Colleges of Physicians Training Board specialty advisory committee for renal medicine and a former board member of Medical Education England. He was director of postgraduate medical and dental education for UCL Partners from 2010 to 2013. He is the chair of the HSL Innovations Board.



Prof. Hans Stauss - Director of the Institute of Immunity & Transplantation, RFL
Advances in Immunotherapy @ 9:45am

Professor Hans J. Stauss is the Head of Clinical Immunology at the Royal Free Hospital, as well as the Head of the UCL Research Department of Immunology and co-Director of the UCL Division of Immunity and Transplantation. He is also the Director of the Infection, Immunology & Inflammation program of the Academic Health Science Centre of UCLP.

Previously he was the Head of the Tumour Immunology section at Hammersmith Hospital. He studied for his Doctor of Medicine (MD) in 1982 at the University of Freiburg and went on to do his PhD at the University of Chicago in 1987. He is a fellow of the Royal College of Pathologists (FRCPath) since 2007. The main focus of his work is the analysis of antigen-specific T lymphocyte responses to tumours and the development of immunotherapy approaches for the treatment of cancer and chronic infection. In order to facilitate the development of immunotherapy, he led the development of the new UCL Institute of Immunity and Transplantation, which will focus on new vaccines, and on innovative cell and gene therapy approaches for the treatment of viral infection, cancer and other diseases.



Prof. Peter Chiodini - Consultant Parasitologist, Director of PHE Malaria & National Parasitology Reference Laboratories, UCLH/HTD
Parasitology @ 10:15am

Peter Chiodini graduated from King's College London with First Class Honours in Zoology and gained his PhD in Parasitology at the Wellcome Research Laboratories. He then studied Medicine in London before undergoing specialist training in Communicable Diseases in Birmingham. He is Director of the Public Health England (PHE) Malaria Reference Laboratory and the PHE Parasitology Reference Laboratory.

Professor Chiodini organises the UK National External Quality Assessment Schemes for Parasitology, is a member of the PHE Advisory Committee on Malaria Prevention in Travellers, the Department of Health Advisory Committee on Dangerous Pathogens, and advises the National Blood Service on the prevention of transfusion-transmitted parasitic infections. He was Dean of the Faculty of Travel Medicine of the Royal College of Physicians and Surgeons of Glasgow (2009 to 2012).



Dr Robin Smith - Consultant Medical Microbiologist, RFL
An Overview of Research in Microbiology - Setting the Scene @ 11:15am

Dr Robin Smith is a microbiology consultant and is the clinical lead for the microbiology department at the Royal Free Hospital, where she is a clinical microbiologist and infection control doctor. Her interests include genito-urinary infections and infection control, particularly environmental infection control. Her presentation will provide an overview of research within the Department of Microbiology at the Royal Free Hospital; encompassing research interests, current research projects, and future research plans.



Dr Eleni Nastouli - Consultant Virologist & Clinical Lead for Virology, UCLH
Research & Development In Virology - An Overview @ 11:45am

Dr Nastouli is a paediatrician and a virologist by training, leading the Department of Clinical Virology and the UCLH and holds an Honorary Consultant post in Paediatric Infectious Diseases at Great Ormond Street Hospital. In her clinical work, she cares for patients with viral hepatitis, HIV and severe influenza. Her research interests include development of novel diagnostics in collaboration with the Wellcome Trust Sanger Institute and the London Centre for Nanotechnology.

Dr Nastouli is currently a co-investigator in the ICONIC study, introducing innovative next generation sequencing methodologies in diagnostics, linking pathogen genomic and clinical data and a Principal Investigator in the National HBV in pregnancy study. She also provides expert virological advice to the MRC/UCL Clinical Trials Unit and PENTAid, an international consortium running HIV clinical trials in children.



Dr Marie Scully - Consultant Haematologist, UCLH

Thrombotic Thrombocytopenic Purpura - From Rags to Riches @ 1:30pm

Dr Marie Scully has held a joint appointment between UCLH and TDL as a consultant haematologist since 2007. She has a particular interest in haemostasis, thrombosis and blood transfusion. Specific clinical and research focus includes platelet-mediated disorders, especially ITP, TTP and aHUS. Primary publications include TTP, in particular, translational work understanding the pathophysiology, but leading on defining clinical subgroups and treatment. Grants with the Medical Research unit, the British Heart Foundation and Baxter Global. She supervises postgraduate doctorate and involved in undergraduate and postgraduate teaching and regularly reviews for haematology and related medical journals.



Prof. Marco Novelli - Professor of Gastrointestinal Pathology, UCLH

Slide Based Biomarker Testing @ 2:00pm

Professor Marco Novelli read medicine at Bristol University, specialised in histopathology and studied for a PhD under the supervision of Sir Walter Bodmer, Imperial Cancer Research Fund. He completed his clinical training at UCLH where he became a consultant in 2000 and was awarded a personal chair in Gastrointestinal pathology in 2004. He has published over 100 peer reviewed papers in journals including Science, Nature, Nature Medicine, PNAS, Lancet, Cancer Research, Immunology, Gastroenterology, Gut, J Pathol and Histopathology. His current clinical and research interests include Barrett's oesophagus/neoplasia, Stromal tumours of the GI tract and colorectal carcinogenesis.



Dr Manuel-Rodriguez-Justo - Consultant Histopathologist, UCLH

Translational Developments in Molecular Histopathology @ 2:00pm

Dr Manuel Rodriguez-Justo is a consultant pathologist and senior lecturer at UCLH/UCL. He is the Molecular Pathology Lead (gastrointestinal cancer and clonality in Haematological malignancies) at L-Advanced Diagnostics (UCL-AD) and has been appointed Cancer Lead at UCLH for the Genomics England – 100K Genome Project. He is co-investigator in several NIHR, MRC and TSB/Innovate-UK funded grants. Manuel has published more than 80 peer reviewed papers in GI tract carcinogenesis, inflammatory bowel disease and biomarkers in lymphomas/myelomas in journals with high impact factor including Blood, Science, Nature Medicine, Cell, Gastroenterology, Gut, Hematologica and PNAS.



Dr Lisa Levett - Director of Genetics & Molecular Pathology, HSL

Recent Advances in Non-invasive Prenatal Testing @ 3:15pm

Lisa studied Genetics and gained her PhD at Newcastle University, UK. She has worked for The Doctors Laboratory since 1996, and set up its molecular genetics division. With a special interest in prenatal diagnosis – she introduced trisomy testing by PCR into clinical practice in the late 1990s and non-invasive prenatal screening in 2012 – with added experience in molecular virology, molecular microbiology and haematology she continues to keep molecular genetics and pathology testing at the forefront of its field by developing new diagnostic tests and using the latest technologies.



Dr Devi Nair - Consultant Chemical Pathologist, RFL

Managing Lipid Disorders @ 3:45pm

Dr D Nair was appointed as a consultant Chemical Pathologist Hon Senior Lecturer in Clinical Biochemistry in 2002. She qualified from Madras Medical College India and completed her post graduate studies at the Royal Free Hospital. Dr Nair is the clinical lead for lipids and Cardiovascular Risk Prevention at the Royal Free Hospital. Her special interests include familial hyperlipidaemia or hyperlipidaemia of genetic origin. She runs a dedicated cardiovascular risk prevention clinic for antiretroviral drug induced hyperlipidaemia. She is the recipient of the Innovation fund and set up cardiovascular clinics in a faith based setting i.e. in Bangladeshi community centres as well as holder of the Pfizer Foundation award for setting up screening clinics in the Hindu temples of North London.



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EVENT ITINERARY

- 8:45am** **Doors Open, Registration, Coffee & Pastries**
- 9.30am** **Introduction to the Day**
Prof. Michael Patton - *Medical Director, Professor of Medical Genetics, TDL/HSL*
- 9.35am** **Opening Remarks from the Chair**
Prof. Bryan Williams - *Director of the NIHR UCLH/UCL Biomedical Research Centre*
- 9.45am** **Advances in Immunotherapy**
Prof. Hans Stauss - *Director of the Institute of Immunity and Transplantation, UCL/RFL*
- 10.15am** **Parasitology**
Prof. Peter Chiodini - *Consultant Parasitologist, Director of the Public Health England Malaria & National Parasitology Reference Laboratories. UCLH/HTD*
- 10.45am** **Coffee Break**
- 11.10am** **Opening Remarks from the Chair**
Prof. Stephen Powis - *Medical Director & Professor of Renal Medicine, RFL*
- 11.15am** **An Overview of Research in Microbiology - Setting the Scene**
Dr Robin Smith - *Consultant Medical Microbiologist & Clinical Lead for Microbiology, RFL*
- 11.45am** **Research & Development In Virology - An Overview**
Dr Eleni Nastouli - *Consultant Virologist & Clinical Lead for Virology, UCLH*
- 12.15pm** **Lunch & Commercial Partners**
- 1.25pm** **Opening Remarks from the Chair**
Prof. Michael Patton - *Medical Director, Professor of Medical Genetics, TDL/HSL*
- 1.30pm** **Thrombotic Thrombocytopenic Purpura - From Rags to Riches**
Dr Marie Scully - *Consultant Haematologist & Clinical Lead for Haematology, UCLH*
- 2.00pm** **Slide Based Biomarker Testing**
Prof. Marco Novelli - *Professor of Gastrointestinal Pathology & Consultant Histopathologist, UCLH*
&
Translational Developments in Molecular Histopathology
Dr Manuel-Rodriguez-Justo - *Consultant Histopathologist, UCLH*
- 2.45pm** **Coffee Break**
- 3.15pm** **Recent Advances in Non-invasive Prenatal Testing**
Dr Lisa Levett - *Director of Genetics & Molecular Pathology, TDL/HSL*
- 3.45pm** **Managing Lipid Disorders**
Dr Devi Nair - *Consultant Chemical Pathologist & Clinical Lead for Biochemistry, RFL*
- 4.15pm** **Closing Remarks**
Prof. Michael Patton - *Medical Director, Professor of Medical Genetics, TDL/HSL*
- 4.30pm** **Meeting Close**



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RESEARCH WITHIN HSL

Update on Research & Innovations activities within HSL

As Professor Patton has outlined in his welcome letter, we have aimed to bring together a range of speakers from within HSL and its Trust partners for this multi-disciplinary symposium to present a selection of research and development activities within our organisations.

In addition to this, there have been significant research & development activities in other areas which we have not been to fit into the agenda.

We have seen approaching 50 registered research activities captured within a 4 month period ranging from overseas student placements to local BSc, MSc, PhD, FRCPath, IBMS portfolio related activities. We also have a breadth of clinician driven research, including the local service development projects, together with pathology support activities associated with locally and nationally managed clinical trials.

The engagement and support from the local NIHR team, the Joint Research Office and the local Trusts' Research teams has been invaluable to maintain the pathology laboratory links to these important trial activities during this period of pathology service transformation.

An area which often goes unnoticed is the local clinical service innovations implemented by our clinician and healthcare scientist teams within the laboratories. These innovations are crucial to the on-going development of the clinical services and as the overall pathology service continues to transform we will see a number of new technology verifications performed generating a wealth of data to support clinically robust change.



David Byrne

CEO
HSL Pathology LLP



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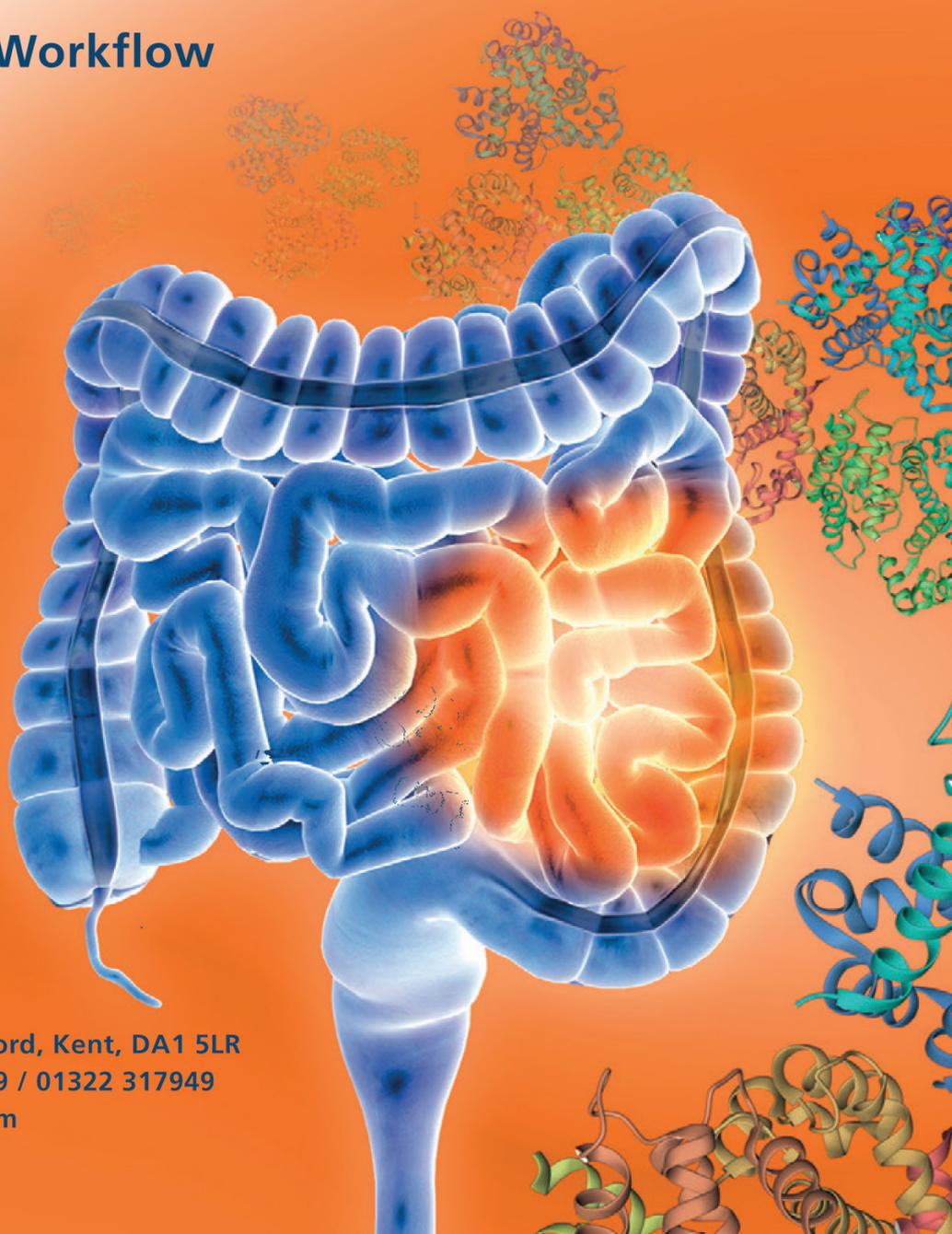
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THE WELLCOME COLLECTION

For our first Research & Innovations Symposium, HSL have chosen the Wellcome Collection as the venue. It is an institution steeped in science and medicine history and boasts a World-class array of exhibits and displays.

The venue is overseen by the Wellcome Trust who also run the Wellcome Library which is home to more than 750,000 books and journals as well as an extensive range of manuscripts, archives and films.

HSL are extremely grateful to the Wellcome Collection for their support and we hope that all delegates and sponsors enjoy their visit to the venue.



About the Trust

Sir Henry Wellcome (1853-1936), the founder of the Wellcome Trust, was one of the most fascinating men of his time. A businessman, collector and philanthropist, he was born in the American Wild West but ended his days as a knight of the British Realm. Wellcome co-founded a multinational pharmaceutical company that mastered modern techniques of advertising such as promotion, image and branding.

The wealth that Wellcome's company brought him was invested in amassing an astonishing collection of historical objects, which at the time of his death was larger than that of many of Europe's most famous museums. He also funded pioneering medical research. In his lifetime, scientists funded by Wellcome made great breakthroughs into understanding how our bodies work. After his death, Wellcome's will provided for the creation of the Wellcome Trust. Today, the Wellcome Trust is a champion of science, funding research and influencing health policy across the globe.

The Trust's Philosophy

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"Medicine Man" exhibit at Wellcome Collection

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