81st Stephen Paget Memorial Lecture and Openness Awards Ceremony

4th December 2017
Wellcome Collection, London

#ConcordatOpenness

Programme

17:30 Arrival and Refreshments

18:00 Welcome Address

18:10 Openness Awards

Internal or sector engagement activity
Public engagement activity
Media engagement or media stories
Website or use of new media
Individual award

18:30 81st Paget Lecture by Prof Clive Page

How animals have helped with the discovery and development of drugs for the treatment of asthma and COPD

19:30 Drinks Reception

21:00 End

The Stephen Paget Memorial Lecture

The Stephen Paget Memorial Lecture is a scientific lecture to commemorate the life of Dr Stephen Paget.

Stephen Paget (1855 – 1926) was the founder of the Research Defence Society, a forerunner of Understanding Animal Research. He believed passionately that better science and understanding of physiology would lead to better medical treatments.

After his death in 1926, he was greatly missed by his medical colleagues and the scientific community. The first Stephen Paget memorial lecture was given in 1927 to commemorate his life and allow leading bio-medical scientists of the day to talk about their research.

The Openness Awards

The Concordat on Openness launched in May 2014 and has to date brought together 117 organisations in a pledge to be more open and transparent about the use of animals in research.

This year the Openness Awards celebrate five recipients that have met the Concordat commitments and encouraged the widespread sharing of best practice.

Professor Clive Page, OBE, PhD, FSoB, FBPhS

Clive Page is Professor of Pharmacology and Director of the Sackler Institute of Pulmonary Pharmacology, King's College London. Clive's main research interests are in the pharmacology of inflammation and respiratory disease and he has published over 250 scientific papers.

Clive was the co-founder and previous Chairman of the Board of Verona Pharma plc, an AIM listed Company developing new drugs for the treatment of Respiratory Diseases. He is a Non-Executive Director of Babraham Biotechnology Ltd, as well as being a Trustee of the Babraham Institute in Cambridge and a Non-Executive Director of the Board of Peptinnovate Ltd, PreP Biopharma and Epiendo. Clive started his early career in the Pharmaceutical Industry at Sandoz Ltd, Basel, Switzerland and regularly consults to both the Pharmaceutical and Biotech Industry.

Clive is a recent former Chairman of the Animal Science Group of the Royal Society of Biology and has contributed widely to the public debate about the use of animals in research.

He was awarded the Society of Biology President's Medal in 2012 for an outstanding contribution to the life sciences over the previous year.

In 2017, Clive was awarded an OBE for Services to Pharmacology.

Past Paget Lecturers

1927 Professor Julian Huxley, MA
1928 Sir Bernard Spilsbury, MA, MB, MRCP
1929 Professor A V Hill, OBE, SCD, FRS
1930 Lady Mellanby, SCD, DSC
1931 Sir Henry Dale, CBE, FRS
1932 Sir Arthur Keith, FRCS, FRS
1933 Major General Sir Leonard Roberts, KCSI, MD, FRS
1934 Sir Joseph Barcroft, CBE, MA, FRS
1935 Professor Sir Frederick Hobday, CMG, FRCVS
1936 Sir Malcolm Watson, LLD, MD, CM, DPH, FRFPS
1937 Professor G Grey Turner, DCH (Hon) MS, FRCS, FACS
1938 Professor Charles H Best, MA, MD, DSC (Lond), FRCP (Canada), FRS
1939 Sir Edward Mellanby, KCB, KHP, MD, FRCP, FRS
1945 Sir William Savage, BSc, MD, DPH
1946 Brigadier Sir N Hamilton Fairley, CBE, MD, DSc, FRCP, FRS
1947 Professor G H Wooldridge, FRCVS, MRIA
1948 Professor P A Buxton, CMG, FRS
1949 Sir Charles A Lovatt Evans, LLD, DSc, FRCP, FRS
1950 Professor E D Adrian OM, MD, FRS
1951 Sir Wilson Jameson, GBE, KCB
1952 Sir Howard Florey, MD, FRS
1953 Sir James Learmouth, KCVO, DBE, CHM, FCCSE
1954 Sir Geoffrey Jefferson, CBE, FRS
1955 Sir Henry Dale, OM, GBE, FRCP, FRS
1956 Professor A A Miles, CBE, MD, FRCP
1957 The Rt Hon the Lord Cohen of Birkenhead, MD, DSc, LLD, FRCP, FACP
1958 Mr Richard Fort, MP
1959 Sir Solly Zuckerman, CB, FRS
1960 Professor J Harold Burn, MD, FRS
1961 Sir Hugh Linstead, OBE, LLD, EPS, MP
1962 Sir Derrick Dunlop, BA, MD, FRCP
1963 Sir John Ritchie, CB, FRCVS, LLD
1964 Professor Alex Haddow, FRS
1965 Professor D D Reid, MD, DSc, FRCP
1966 Sir Peter Medawar, FRS
1967 Professor A S Parkes, CBE, FRS
1968 Mr Christopher Mayhew, MA, MP
1969 Sir John Boyd, OBE, MD, FRCP, FRS
1970 Professor F G Young, DSc, FRS
1971 Professor Sir Michael Woodruff, DSc, MD, FRCS, FRS

1972 The Rt Hon The Earl of Halsbury, FRS
1973 Professor James Learmonth Gowans, CBE, FRS
1974 Dr W M Henderson DSc, FRCVS
1975 Dr Arnold S V Burgen, MD, FRCP, FRS
1976 Dr Robert Murray, BSc, FRCP (Glasgow), DPH, DIH
1977 Professor S Shuster, PhD, MB, FRCP
1978 Professor W D M Paton, CBE, FRCP, FRS
1979 The Rev Canon G R Dunstan, MA, DD, FSA
1980 Godfrey J Carter, Parliamentary Counsel
1981 Sir John Butterfield, OBE, MD, DM, FRCP, Hon LLD Hon FACP
1982 Professor Ernst Barany, MD
1983 Professor Roy Calne, FRS
1984 Sir John Vane, FRS
1985 Baroness Mary Warnock, DBE, FBA, FMedSci
1986 Professor Ian A Silver
1987 Professor Sir Stanley Peart, MD, FRCP, FRS
1988 Dr Leslie L Iversen, MA, PhD, FRS
1989 Professor W F H Jarrett, FRS
1990 Lord Walton of Detchant, TD, MA, MD, DSc, FRCP
1991 Dr Frederick K Goodwin, MD
1992 Dr Bridget Ogilvie, ScD, FIBiol
1993 Dr Salvador Moncada, FRS
1994 Dr Ian Purchase, BVSc, PhD, FRCPath, CBiol, FIBiol
1995 Professor Sir Walter Bodmer, FRS
1996 Dr Keith Barnett, OBE
1997 Professor Grahame Bulfield, FRSE
1998 Professor Trevor Jones, FRSM, FRSC, FRPS
1999 Professor Steve Jones, FRS
2000 Baroness Susan Greenfield CBE, HonFRCP
2001 Sir Richard Sykes, DSc, FRS, FMedSci, HonFREng
2002 Professor Lord Winston, FMedSci, FRSA, FRCP, FRCOG, FIBiol
2003 Lord Sainsbury of Turville, FRS, HonFREng
2004 Lord Robert May, OM, AC, FRS, FAA, FRSN, HonFAIB, HonFREng
2005 Professor Mark Ferguson, CBE, FDS, FFD, FMedSci
2006 Dr Gill Samuels, CBE, HonDSc, FRI
2007 Professor Chris Higgins, FRSE, FRSA, FMedSci
2008 Professor Paul Andrews,
2014 Professor Dame Linda Partridge DBE, FMedSci
2015 Professor Sir Colin Blakemore, FMedSci, HonFRCP, HonFRSM, HonFRSB, FRS
2016 Professor Sir Mark Walport, FRS, FMedSci

Openness award categories and nominations

Internal or sector engagement activity

Presented by Dr Judy MacArthur Clark, CBE, FRCVS

As Executive Director of JMC Consultancy, Judy's expertise is in developing meaningful political strategies which deliver quality science through good welfare standards, ethical animal use and open communication.

Judy's career spans over 40 years in animal welfare and biomedical research in a variety of academic, government, commercial, NGO and consultant roles. She started her engagement with the media in 1985 while drafting the 1986 Act. She led the Animals in Science Regulation Unit in the Home Office until 2016.

Judy now works internationally, particularly in China and Brazil, to co-ordinate symposia and research initiatives and is passionate about the science-led promotion of the 3Rs.

Nominations

Babraham Institute

Babraham Institute has developed an innovative new partnership with Sophianum SGS, a technical school in the Netherlands, to engage students in animal research. Secondary school and sixth form students work on projects designed and developed by corporate partners.

The challenge projects vary every year and are designed to encourage students to think about technical issues and find

creative solutions. They look at projects from a Research and Design viewpoint. Babraham Institute projects are developed in conjunction with the public engagement team, scientists and animal unit managers, and focus on the use and care of animals in science. Activities included creating better design for mouse cage racks to allow more effective cage checking; improving communication between different areas of our animal care facilities; creating a working LEGO model of the cage-washing robot and researching legislation and opinion on the use of animals in research in the UK, the EU and around the world.

Wellcome Trust Sanger Institute

Diane Hazlehurst initiated and managed an ‘experience day’ about the animal facility which was attended by 155 people across Campus, who enthusiastically took part in a range of interactive activities. 20 people additionally signed up for a tour of the facility. The event raised the profile of the animal facility across Campus, enabled open discussion about the use of animals in research, and provided information about the care and husbandry of animals in the facility.

Public engagement activity

Presented by Professor Clare Stanford, DPhil, FRSB, FBphS, FHEA

Clare graduated in physiology at University College London. This was followed by postgraduate and postdoctoral research, at the University of Oxford, investigating neurochemical mechanisms that regulate noradrenergic transmission in the brain and periphery. On moving back to UCL, her research broadened to study the neurobiology of mood and behaviour and the actions of drugs that are used to treat psychiatric disorders. This work has involved preclinical research in vitro and in vivo, as well as several human studies. She is currently Professor (Emerita) of Translational Neuropharmacology at UCL.

Nominations

Cancer Research UK

In December 2016, CRUK held an exclusive evening of glamour in aid of their Women of Influence campaign. The Research Engagement team worked with Dr Rita Sousa-Nunes and her group at KCL to share the work they do in Drosophila (fruit flies) to identify the genes involved in the formation of brain tumours. Rita's group prepared flies, some with mutations that lead to cancer in humans and can also cause visible changes in the fruit fly. Researchers and CRUK Research Engagement staff talked to guests about the work and guests were given glasses and UV goggles to view the flies with handheld lights.

MRC Harwell

This June, MRC Harwell opened its doors as part of the two-day MRC Festival of Medical Research. Day one saw the site open up to students with tours of the labs, career talks and a tour of the

Mary Lyon Centre animal facility. The second day the site opened up to patient groups and research staff walked the visitors through their research programmes on mice and how as models they are essential for medical research. The patients were also provided a tour of the labs and a tour of the animal facility.

Tony Davidge, Cancer Research UK Cambridge Institute

Tony Davidge, Cancer Research UK Cambridge Institute, has been nominated for his leadership role in delivering a work experience activity to local school children. Tony is the Institute's NTCO and has demonstrated a clear commitment to engaging with members of the public so that they can learn about the animal research being conducted within the Institute, and understand how animal technicians ensure that the highest standards of animal welfare are maintained.

In partnership with a number of local research organisations, Tony has led a programme of activities with a local college. Through a specific 'Mouse House – Challenge Project' forty five students explored why animals are used in research, ethics, animal welfare, the law and how animal units are designed. Tony has also implemented a week-long work-experience placement scheme to bring students into the Institute's animal facility and has delivered this with two student groups so far.

University of Leeds

As part of the Leeds Festival of Science 2017 three members of the University's animal care team, a researcher, NVS and NIO hosted a stand as part of the "Discovery Zone" which provides interactive STEM activities for school children. The stand included animal cages with examples of enrichment, food, bedding and

nesting material; dissected rat tissues in tubes including a brain and spinal column, heart and lungs, liver and intestines; posters explaining the 3Rs, statistics and animal use; and videos of animals, taken in their facilities. Basic handling and IP injections using stuffed toys were also demonstrated.

University of Sheffield

Claire Allen and Fiona Milne engaged street artists to visit the University's aquarium and observe the work as part of the Festival of the Mind event. This inspired a number of new street art images to be created around various parts of Sheffield capturing the use of zebrafish in life-science research. This was a very successful and truly inspirational event that was disseminated to the wider public in a format that was easily accessible.

MRC Harwell, The Pirbright Institute, University of Bristol, University of Oxford

MRC Harwell, The Pirbright Institute, University of Bristol, and University of Oxford collaborated with UAR to create a virtual 'street view' tour of their animal research facilities. The digital tours allow users to move around the four different facilities, providing the viewer with 360 degree vision of animal rooms and surgical suites. There are 56 scenes in total, containing 35 video clips of technicians and scientists and additional information in text boxes.

The four facilities carry out a broad range of research that requires animals: The University of Bristol's research facilities allow human and veterinary surgeons to work side by side on medical research that will benefit man and animals. MRC Harwell has thousands of mice strains to investigate what genes do and the relationship between genes and disease. The University of Oxford's primate

centre conducts research into how our brains work, and The Pirbright Institute creates vaccines that protect livestock from diseases such as foot-and-mouth and swine flu.

http://www.labanimaltour.org

Media engagement or media stories

Presented by Professor David J Webb, MD, DSc, FRCP, FRSE, FFPM (Hon), FMedSci, PBPhS

David Webb is the Christison Professor of Therapeutics & Clinical Pharmacology at the University of Edinburgh, a physician at the Royal Infirmary of Edinburgh, and a translational researcher in the field of hypertension and renal disease. He is President of the British Pharmacological Society (BPS), a non-executive director of the Medicines and Healthcare products Regulatory Agency (MHRA), and past President of the Scottish Society of Physicians. He is a Fellow of the Academy of Medical Sciences, Royal Society of Edinburgh and Royal College of Physicians. He will be President of the World Congress of Pharmacology, to be held in 2022.

Nominations

Harry Dayantis

University releases of animal figures have previously been inconsistent, and without coordination between universities. In 2016, Harry Dayantis, then UCL's Media Relations Manager for Brain Sciences & Medical Sciences, worked with the Science Media Centre, Understanding Animal Research, and the press officers at numerous universities to plan out how to address the 2015 statistics. Harry compiled a list of the top 10 UK universities ranked by research power, as defined by the UK government's Research Excellence Framework exercise. The group agreed to do a coordinated release to reveal their collective animal numbers proactively, showing that they had nothing to hide and are proud of their research. Getting 10 leading universities to agree on wording, timing and other details was challenging but the result paid off.

Case studies from institutions involved were used to highlight where and why animals are used in research. In terms of coverage, the Huffington Post covered the release with a fair and accurate account.

http://www.huffingtonpost.co.uk/entry/universities-animal-experiments-2015_uk_5811fc04e4b0ccfc9561efec

http://www.huffingtonpost.co.uk/2016/02/01/universities-experimented-on-almost-1m-animals-in-one-year--worst-offenders_n_9130664.html

King's College London

King's College London took part in a documentary on the use of primates in research for BBC3. This was a sensitive project as it wasn't working with the usual, well-trusted reporters. The production team seemed somewhat inexperienced and naive, and as a result, many other universities either dropped out or refused to take part. However, with support from UAR and the SMC, the University decided to remain part of the project, as they felt it was important to be open about their research and demonstrate the high standards of care for animals in the UK. They gave the production team full access to their marmoset facility and allowed them to film dosing of the animals.

http://www.bbc.co.uk/iplayer/episode/p04z4ycj/the-monkey-lab?suggid=p04z4ycj

Newcastle University

Stroke patients started a trial of a new electronic device, developed in primates at Newcastle University, which will help them recover movement and control of their hand. The story reached a national audience through video and written pieces with an accompanying commentary read by over 11, 000 people.

As the work was published in the Journal of Neuroscience, a press release was issued, supported by a video which was made available to the media. The video features the work in primates and the same experiment in human participants, as well as footage of the primates in their housing.

https://www.youtube.com/watch?v=Roa8c7mpBUU

https://theconversation.com/using-monkeys-for-research-is-justified-its-giving-us-treatments-that-would-be-otherwise-impossible-67283

University of Bath

In September 2016, ground breaking research from the University was published showing that viable mouse offspring can be produced using non-egg cells fertilised with sperm. For the first time since the University's animal Unit opened in 2007, TV crews were given access and allowed to film the team carrying out micromanipulation techniques with mouse embryos. Organising access to the facility for TV crews and equipment while maintaining the biosecurity of the Unit was not trivial but was expertly co-ordinated by the Press Office and the Senior Animal Technician; there was enormous willingness by all staff involved to accommodate this filming and take the opportunity to display our facilities.

http://www.bbc.co.uk/news/health-37337215

https://www.theguardian.com/science/2016/sep/13/skin-cells-instead-of-eggs-make-embryos-scientists-say

Website or use of new media

Presented by Professor David Eisner D. Phil, FRCP (Hon), FMedSci

David Eisner is currently the British Heart Foundation Professor of Cardiac Physiology at the University of Manchester. He obtained his PhD from the University of Oxford before holding academic posts at University College London and the University of Liverpool.

His research interests focus on the regulation of intracellular calcium in the heart. This involves not only the basic mechanisms but also how they are altered during arrhythmias and heart failure.

He has served as President of The Federation of European Physiological Societies as well as the European Section of The International Society for Heart Research. He is currently President of The Physiological Society. Until December 2017, he was Editor in Chief of *The Journal of Molecular and Cellular Cardiology*.

Nominations

Queen's University Belfast

Queen’s University Belfast has developed a public-facing animal research website which highlights the University's commitment to animal research and welfare, together with impact and outreach. The website also includes the University’s annual return statistics, policy and procedure documents and annual AWERB report, highlighting the University's commitment to openness on animal research.

https://www.qub.ac.uk/sites/AnimalResearch/

S3 Science Recruitment

S3 Science has developed a new website to openly and honestly educate new candidates about life-science careers. They are incredibly proud of the reaction it regularly receives from visitors that want to know more about why animals are used in research. In conjunction with the website the team tirelessly campaigns to reach out and engage with the public to discuss the use of animals in research, and with their clients to break down the stereotypes of candidates with genuine animal welfare concerns at heart.

http://s3science.com/about/animal-research-why/

University of Cambridge

Understanding the OCD Brain is a series of films by the University of Cambridge looking at the use of animals, including non-human primates, to study a brain disorder. The films explore why animal research is necessary, showing footage of rats and marmosets performing tasks. The section on marmosets includes an explanation of 'cannulae' – why they are used and the impact on the animals involved – including footage showing cannulated marmosets. The final section looks at comparisons between the animal studies and research using patients, to demonstrate the translational benefits.

http://www.cam.ac.uk/research/news/the-ocd-brain-how-animal-research-helps-us-understand-a-devastating-condition

Individual award for outstanding contribution for Openness in animal research

Presented by Professor Clive Page, OBE, PhD, FSoB, FBPhS


CONCORDAT ON OPENNESS ON ANIMAL RESEARCH IN THE UK


RVC Royal Veterinary College University of London
Newcastle University
Aberystwyth University
ucb
PARKINSON'S UK CHANGE ATTITUDES. FIND A CURE. JOIN US.
Babraham Institute
Alzheimer's Research UK
abpi Bringing medicines to life
Institute of Animal Technology
University of Birmingham
BBSRC bioscience for the future
AHT Animal Health Trust
sequani non-clinical
GlaxoSmithKline
ENVIGO
NC3Rs National Centre for the Replacement, Refinement & Reduction of Animals in Research
University of Bradford
University of Glasgow
Biochemical Society
University of Leeds
University of St Andrews
The University of Nottingham United Kingdom · China · Malaysia
University of Surrey
The Royal Society
wellcome
The Physiological Society
British Society for immunology
US University of Sussex
mnda motor neurone disease
Animal & Plant Health Agency
msc Medical Research Council
Anatomical Society 1887
Arthritis Research UK
Bloodwise
University of Exeter
MS Society
The Open University
Microbiology Society
Brunel University London
University of Bath
Queen Mary University of London
British Heart Foundation
St George's University of London
UCL
Universities UK
asthma UK
fera
Understanding Animal Research
BIA
Ulster University
Robert Gordon University Aberdeen
Life Science Recruitment
University of York
BAP British Association for Psychopharmacology
Rothamsted Research
Society for Endocrinology
Pfizer
charles river
VSC Veterinary Schools Council
wellcome trust sanger institute
University of Liverpool
University of Stirling
amrc
Durham University
Imperial College London
The Francis Crick Institute
Moredun Research Institute
LABA
University of Aberdeen
UEA University of East Anglia
BHA
University of Cambridge
The University of Edinburgh
British Pharmacological Society
British Andrology Society
Royal Society of Biology
University of Leicester
John Innes Centre
SEB Society for Experimental Biology
LAVA
Cancer Research UK
Wickham Laboratories
Cefas
University of Southampton
BNA British Neuroscience Association
Aston University
Cystic Fibrosis Trust
leuka leading leukaemia research
Lilly
University of Reading
Porton Biopharma
University of Oxford
The Pirbright Institute
King's College London
The University of Sheffield
MRC Medical Research Council
bts driving excellence in toxicology
lasa Laboratory Animal Science Association
COVANCE SOLUTIONS MADE REAL
Cardiff University Prifysgol Caerdydd
Eurogentec
Manchester 1824 The University of Manchester
University of Portsmouth
University of Bristol
University of Dundee
Public Health England
ICR The Institute of Cancer Research
agenda life sciences
London School of Hygiene & Tropical Medicine
EPSRC Engineering and Physical Sciences Research Council
ovarian cancer action
University of Strathclyde Glasgow
Queen's University Belfast
The Humanimal Trust
SUCCEED WITH PLYMOUTH UNIVERSITY
The Academy of Medical Sciences
AstraZeneca Health Connects Us All