



83rd Stephen Paget Memorial Lecture and Openness Awards Ceremony

3rd December 2019
Royal College of Physicians,
London

#ConcordatOpenness



BRITISH
PHARMACOLOGICAL
SOCIETY



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
- 18:30 83rd Paget Lecture by Professor Dame
Nancy Rothwell
- A stroke of bad luck*
- 19:30 Drinks Reception
- 21:00 End

The Stephen Paget Memorial Lecture



The Stephen Paget Memorial Lecture is a scientific lecture that commemorates the life of Dr Stephen Paget.

Stephen Paget (1855 – 1926) was the founder of the Research Defence Society, a forerunner of Understanding Animal Research. As a medical doctor, 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 colleagues and by 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 122 organisations in a pledge to be more open and transparent about their use of animals in research.

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

Professor Dame Nancy Rothwell



Nancy Rothwell obtained a first class degree in Physiology in 1976, a PhD in 1978 and a DSc in 1987 from the University of London. Her early research identified mechanisms of energy balance regulation, obesity and cachexia. In 1984 she was awarded a Royal Society Research Fellowship and relocated to Manchester in 1987. Nancy was awarded a Chair in Physiology in 1994, then a prestigious Medical Research Council Research Chair from 1998 to 2010. Her current research focuses on the role of

inflammation in brain disease and has identified the role of the cytokine interleukin-1 (IL-1) in diverse forms of brain injury. Her recent studies have begun to elucidate the mechanisms regulating IL-1 release and its action, and her group is conducting clinical trials of an IL-1 inhibitor in stroke.

Nancy was the founding President of the Society of Biology (now the Royal Society of Biology), and has previously served as President of the British Neuroscience Association, a council member of MRC, BBSRC and Cancer Research UK and as a non-executive director of AstraZeneca. In 2003 she won the prestigious Pfizer Research Prize, in 2004 was elected a Fellow of the Royal Society and in 2005 was honoured with a DBE.

Nancy became President and Vice-Chancellor of The University of Manchester in July 2010, but still maintains an active

research group. She is currently Co-Chair of the Prime Minister's Council for Science and Technology, a Deputy Lieutenant for Greater Manchester, Chair of the Oxford Road Corridor Board, and a member of the Greater Manchester Local Enterprise Partnership Board, the Northern Powerhouse Partnership Board, the UK Dementia Research Institute Board and the Industrial Strategy Council.

Nancy 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, particularly on sensitive issues in science. In 1998 she delivered the Royal Institution Christmas Lectures, televised by the BBC.

Past Paget Lecturers

1927 Professor Julian Huxley
1928 Sir Bernard Spilsbury
1929 Professor A V Hill
1930 Lady Mellanby
1931 Sir Henry Dale
1932 Sir Arthur Keith
1933 Major General Sir Leonard Roberts
1934 Sir Joseph Barcroft
1935 Professor Sir Frederick Hobday
1936 Sir Malcolm Watson
1937 Professor G Grey Turner
1938 Professor Charles H Best
1939 Sir Edward Mellanby
1945 Sir William Savage
1946 Brigadier Sir N Hamilton Fairley
1947 Professor G H Wooldridge
1948 Professor P A Buxton
1949 Sir Charles A Lovatt Evans
1950 Professor E D Adrian
1951 Sir Wilson Jameson
1952 Sir Howard Florey
1953 Sir James Learmonth
1954 Sir Geoffrey Jefferson
1955 Sir Henry Dale
1956 Professor A A Miles
1957 The Rt Hon the Lord Cohen of Birkenhead
1958 Mr Richard Fort
1959 Sir Solly Zuckerman
1960 Professor J Harold Burn
1961 Sir Hugh Linstead
1962 Sir Derrick Dunlop
1963 Sir John Ritchie
1964 Professor Alex Haddow
1965 Professor D D Reid

1966 Sir Peter Medawar
1967 Professor A S Parkes
1968 Mr Christopher Mayhew
1969 Sir John Boyd
1970 Professor F G Young
1971 Professor Sir Michael Woodruff
1972 The Rt Hon The Earl of Halsbury
1973 Professor James Learmonth Gowans
1974 Dr W M Henderson
1975 Dr Arnold S V Burgen
1976 Dr Robert Murray
1977 Professor S Shuster
1978 Professor W D M Paton
1979 The Rev Canon G R Dunstan
1980 Godfrey J Carter
1981 Sir John Butterfield
1982 Professor Ernst Barany
1983 Professor Roy Calne
1984 Sir John Vane
1985 Baroness Mary Warnock
1986 Professor Ian A Silver
1987 Professor Sir Stanley Peart
1988 Dr Leslie L Iversen
1989 Professor W F H Jarrett
1990 Lord Walton of Detchant
1991 Dr Frederick K Goodwin
1992 Dr Bridget Ogilvie
1993 Dr Salvador Moncada
1994 Dr Ian Purchase
1995 Professor Sir Walter Bodmer
1996 Dr Keith Barnett
1997 Professor Grahame Bulfield
1998 Professor Trevor Jones
1999 Professor Steve Jones
2000 Baroness Susan Greenfield

2001 Sir Richard Sykes
2002 Professor Lord Winston
2003 Lord Sainsbury of Turville
2004 Lord Robert May
2005 Professor Mark Ferguson
2006 Dr Gill Samuels
2007 Professor Chris Higgins
2008 Professor Paul Andrews

2014 Professor Dame Linda
Partridge
2015 Professor Sir Colin
Blakemore
2016 Professor Sir Mark Walport
2017 Professor Clive Page
2018 Professor John O'Keefe

Openness award categories and nominations

Internal or sector engagement activity

Presented by Professor Roger Lemon

Roger Lemon is Emeritus Sobell Professor of Neurophysiology at the Queen Square Institute of Neurology at UCL. His main research interest is the control of skilled hand movements by the brain and is prompted by the need to understand why hand and finger movements are particularly affected by damage to the cortex, and its major descending pathways, for instance as a result of stroke, spinal injury or motor neurone disease. His experiments involve the use of purpose-bred non-human primates.

He is actively engaged in the public dialogue on the responsible use of animals in biomedical research, and particularly the importance of using non-human primates as models of complex neurological and neurodegenerative disease.

Nominations

Newcastle University

Newcastle University's Comparative Biology Centre arranged "a tribute to animals" event to recognise and respect the contribution of research animals to science at the University, as well as celebrate the benefits of that science.

It was an opportunity to bring together all those connected to the centre, from the Establishment Licence Holder to centre staff and family members, researchers and press officers. Talks included an overview of the annual animal statistics from

the centre manager, the importance of openness and how the press office works with the centre to achieve this, how research nurses work with patients to explain where medicines come from, and how animals factor in the University's epilepsy research.

Reaction to the tribute was entirely positive and by recognising and acknowledging the various difficulties staff face at work, the University is fostering a supportive environment.

University of Birmingham

This year the University of Birmingham staged an 'Animal Research Communications Workshop' for staff working across external and internal communications. The aim was to demystify animal research by featuring talks from internal and external experts.

The workshop included talks from the University's press office, staff at the University's Biomedical Services Unit (BMSU), the NC3Rs, and Understanding Animal Research. Case studies were shared to demonstrate best practice and pro-active communications work, while also highlighting missed opportunities.

Academics outlined projects, a member of the University's AWERB gave insight into the work done to scrutinise all applications by academics, and animal technicians brought to life the way they care for animals used in research through personal stories and demonstrations of cages used for mice.

Public engagement activity

Presented by Ken Applebee

Having begun his career as a junior animal technician aged 15, Ken is now Director of Biological Services at King's College London. Until May, Ken served as Chair and CEO of the Institute of Animal Technology, is a founding Trustee of Animals in Science Education Trust, Chair of the Board of Trustees of the College of Laboratory Animal Science and Technology and for six years until May, a member of the Government's Animals in Science Committee.

One of Ken's ongoing major professional interests is the provision and development of education and training for laboratory animal care staff and in 2014 was awarded the OBE, "for services to Animal Technician Education and Animal Technology".

Nominations

S3 Science

A large part of S3 Science's Animal Technician Development Programme (ATDP) mission is to educate the public, actively and openly, on why animals are used in research. ATDP engages with students via classroom workshops, online webinars, and careers days. ATDP regularly conducts 'Information Workshops' to promote and educate people on career pathways within the industry. ATDP also runs weekly workshops for the public online, which cover topics such as why animals are used in research and the ethics behind the research.

University of Edinburgh

Earlier this year the University of Edinburgh hosted a public event at the Edinburgh Science Festival about animal research. The event focused on work to implement the 3Rs and gave members of the public the opportunity to ask questions and raise any concerns. Three researchers spoke about how they are advancing the 3Rs, a video was screened showcasing animal facilities, and there was a short audience participation myth-busting quiz.

The event was a collaboration between Edinburgh Science Festival, Cancer Research UK, the Medical Research Council and the University. It was held in a public space and open to all.

University of Leicester

Back in March the Department of Neuroscience, Psychology and Behaviour at the University of Leicester held an outreach event for A Level and GCSE students on brain awareness.

During the event researchers spoke about their research involving rodents and zebrafish, and staff from the Division of Biomedical Services (DBS) demonstrated how animals in research are cared for. During the same week the DBS also opened its doors to family and friends of staff members to have a tour of the facility.

University of Sheffield

The Bateson Centre Zebrafish Facility has hosted over 100 outreach, widening participation, and public engagements events since 2009. Each year it opens its doors to more than 300 school children from Key Stage 2.

The children visit the facility and receive two hours of hands on science linked to the University's work with zebrafish. The workshop consists of a 20 minute introductory talk, which includes a discussion about child immunisation and how animal models, such as zebrafish, are important for developing new medicines. The children then split into smaller groups for practical demonstrations involving embryo collection, microscopy, and a comparison of fish and human organs.

Wellcome Sanger Institute

The Sanger Institute ran a Research Support Facility Experience Day to show why animal research is essential, demonstrate how animal technicians support research, and for key suppliers to show and discuss how their products support laboratory animal health and welfare.

The audience included students, the local community and friends/family of members of the team. Stalls were run by animal technicians, suppliers, AWERB members, and apprenticeship schemes. Sanger scientists give presentations about the use of animals in research and the Sanger 3Rs awards were presented. Many of the attendees have asked for this to be made into an annual event.

Media engagement or media stories

Presented by Professor Dame Nancy Rothwell

Nominations

The Francis Crick Institute

Last year BBC Radio 5 broadcasted a programme on cancer research from the Crick. A journalist was invited into one of the animal units to record a podcast featuring a post doc and a senior group leader about cancer research using mice.

The programme described the journey through the Crick to the animal unit, the entry procedure to the unit, and focused on particular experimental animals, with explanation of why and how they are used and the conditions they are housed in. The scientists passionately described the purpose of their research and its potential benefits to cancer patients, and listeners could learn about the experience and fate of the animals.

London School of Hygiene and Tropical Medicine

Earlier this year LSHTM developed a long form 'Research in Action' article about the University's research into infection using zebrafish. The article features an interview with Professor Mostowy who explains why zebrafish are ideal for studying infection, while other researchers talk about the advantages of gene editing to study different pathogens. The article also features an accompanying video, filmed inside the University's zebrafish lab.

Website or use of new media

Presented by Ross Millard

Ross Millard is Managing Director of Agenda Resource Management Ltd, having joined them in September 2019. During his 18 years within Life Sciences, he has worked with numerous Universities, Government Funded Bodies and Charities to facilitate improvements in staff working conditions, animal welfare provision and consistency of research. He is also Treasurer of the IAT Oxford branch, a position he has held for nearly 10 years.

Nominations

The Francis Crick Institute, University of Cambridge, University of Edinburgh, University of Oxford, Wellcome

In early 2019 a group of researchers collaborated on a film project to highlight how animals are being used to advance research.

The four, two-minute, films featured Anna Mitchell from University of Oxford using non-human primates to look at how the brain works; Lalita Ramikrishnan from the University of Cambridge, using zebrafish to explore how TB develops; Eddie Clutton from the Wellcome Critical Care Laboratory for Large Animals, using pigs to test a pill that could diagnose and treat gastro-intestinal disease, and Caetano Reis E Sousa from The Francis Crick Institute using mice to look at how the immune system works.

One film was posted every fortnight on the Wellcome Facebook page and paid adverts were used to increase reach with targeted audiences.

University of Cambridge

'The Frog Room' is a two-minute film created by the Gurdon Institute at the University of Cambridge. In this film Rue Jones-Green, UBS facility manager and NACWO of the Gurdon aquatics services, gives a video tour and describes her role in caring for these animals.

University of Reading

When the University of Reading found itself with a baby llama in June, an opportunity arose to engage the public in finding a name. Simultaneously, the University was developing a media campaign to support the release of the Home Office's statistics on procedures on animals in 2018.

To raise national attention to the campaign, the University capitalised on the timing of the Conservative Party leadership election and launched a poll on Twitter to name the baby llama 'Boris' or 'Jeremy'.

The campaign included infographics on the University's animal statistics and work with llamas, and gained widespread media coverage including mentions in the Evening Standard and interviews on BBC Berkshire.

