



Conference on

Environmental factors in gene regulation

To be held in the Wellcome Trust Lecture Hall at

The Royal Society

6-9 Carlton House Terrace, London SW1Y 5AG

on

Wednesday, 16th November, 2016

Admission is free, but strictly by ticket, available from:
The General Secretary, The Galton Institute
19 Northfields Prospect, London SW18 1PE
executiveoffice@galtoninstitute.org.uk
www.galtoninstitute.org.uk

Speakers and Chairmen

Professor David Burt	The Roslin Institute, The University of Edinburgh
Professor Dian Donnai	Manchester Centre for Genomic Medicine, University of Manchester
Dr Amanda Drake	The University of Edinburgh
Professor Anne Ferguson-Smith	University of Cambridge
Dr Julie Gibbs	University of Manchester
Dr Branwen Hennig	Wellcome Trust
Professor Dame Linda Partridge, FRS	University College London and Max Planck Institute for the Biology of Ageing, Cologne
Professor Michèle Ramsay	University of the Witwatersrand, Johannesburg
Professor Sir Peter Ratcliffe, FRS	Target Discovery Institute, University of Oxford and The Francis Crick Institute, London
Professor Akhilesh Reddy	University of Cambridge/Francis Crick Institute
Professor Veronica van Heyningen, FRS	President of The Galton Institute, Institute of Ophthalmology UCL and MRC Human Genetics Unit, IGMM, Edinburgh

**Conference organisers:
Professor Veronica van Heyningen and Dr Branwen Hennig**

Environmental factors in gene regulation

09.50-10.00 **Welcome and Introduction**

10.00-10.40 **Chair: Dr Branwen Hennig**
Professor Sir Peter Ratcliffe, FRS
Oxygen sensing and hypoxia signaling

10.40-11.10 **COFFEE**

11.10-11.50 **Chair: Professor David Burt**
Professor Akhilesh Reddy
Regulation of circadian clocks by redox homeostasis

11.50-12.30 **Dr Julie Gibbs**
Circadian regulation of innate immunity and inflammation

12.30-13.30 **LUNCH**

13.30-14.10 **Chair: Professor Dian Donnai**
Dr Amanda Drake
Early life 'programming' of cardiometabolic and neurodevelopmental disease

14.10-14.50 **Professor Michèle Ramsay**
Fetal exposure leads to altered gene expression

14.50-15.20 **TEA**

15.20-16.20 **Chair: Professor Veronica van Heyningen, FRS**
The Galton Lecture 2016
Professor Dame Linda Partridge, FRS
Nutrition and lifespan

**Presentation of the Galton Plate by Professor Veronica van Heyningen, FRS
President of The Galton Institute**

16.20-17.00 **Professor Anne Ferguson-Smith**
Parental nutrition can modify gene expression in the offspring

THE GALTON INSTITUTE, founded in 1907, is a learned society concerned with all aspects of human heredity, including molecular genetics, genetic medicine and genetic epidemiology, population genetics, human evolution, aspects of psychology and statistical analysis of inherited traits, as well as reproductive technologies and the social and ethical issues raised by advances in these areas. Institute members are drawn from a wide range of disciplines including genetics, medicine, demography, the law, public administration and biological and social sciences.

The Institute organises an annual conference around a topical theme within the biosocial or medical sciences and the Galton Lecture is given as part of the programme. Several other talks and some research activities are supported. A regular Newsletter is published, as well as booklets on topical themes with the intention of bringing relevant frontline scientific and medical knowledge to the interested public.

The Galton Institute is named after Sir Francis Galton, a cousin of Charles Darwin. Galton was a brilliant polymath who made notable contributions to many fields of study including geography, psychology, statistics and several aspects of human biology. He coined the word 'eugenics' which he defined as "the scientific study of the biological and social factors which improve or impair the inborn qualities of human beings and of future generations". The concepts of eugenics were discredited many years ago and the Institute took its current name in 1989. Membership is open to all who support its aims.

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