



THE ROYAL SOCIETY

THEO MURPHY INTERNATIONAL SCIENTIFIC MEETING ON  
**Non-protein-coding RNAs - the DNA–RNA dialogue in shaping the transcriptome**

Organised by Dr Andreas Werner, Professor Denise Barlow and Professor Kevin V Morris

**Monday 19 - Tuesday 20 September 2011**

**Kavli Royal Society International Centre, Chicheley Hall, Buckinghamshire**

**Monday 19 September 2011**

**08.30 Registration & coffee**

**09.00 Welcome by Professor Sir Peter Knight FRS**, Principal, Kavli Royal Society International Centre  
**Welcome by Dr Andreas Werner**, Organiser

**Session 1 – Non-coding transcriptome**

**Chair** Professor Juergen Brosius, University of Muenster, Germany

**09.10 The complexity of the mammalian transcriptome**  
Dr Piero Carninci, RIKEN Yokohama Institute, Japan

**09.35 Discussion**

**9.50 Important lessons from the transcriptomes of complex genomes**  
Professor Thomas Gingeras, Cold Spring Harbor Laboratory, USA

**10.15 Discussion**

**10.30 RNA at the epicentre of development and cognition**  
Professor John Mattick, University of Queensland, Australia

**10.55 Discussion**

**11.10 Refreshments**

**11.40 Large intergenic noncoding RNAs (lincRNAs): from parasites to pluripotency a panoply of functional roles**  
Professor John Rinn, Harvard University, USA

**12.05 Discussion**

**12.20 Mechanisms of discordant and concordant natural antisense regulation of gene expression**  
Professor Claes Wahlestedt, University of Miami, USA

**12.45 Discussion**

**13.00 Lunch**

## **Session 2 - DNA-RNA crosstalk**

**Chair** - Professor Douglas Higgs FRS, University of Oxford, UK

**14.00 Noncoding RNA targets chromatin modifying enzymes to regulatory gene sequences**

Professor Ingrid Grummt, German Cancer Research Center, Heidelberg, Germany

**14.25 Discussion**

**14.40 RNA-directed DNA methylation in Arabidopsis**

Professor Marjori Matzke, Gregor Mendel Institute, Austria

**15.05 Discussion**

**15.20 Some Cracking results with RNA**

Professor David Tollervey FRS, University of Edinburgh, UK

**15.45 Discussion**

**16.00 Refreshments**

**16.30 Emerging roles of RNA interference in genome regulation**

Professor Marc Buehler, Friedrich Miescher Institute for Biomedical Research, Switzerland

**16.55 Discussion**

**17.10 Non-coding RNAs; epigenetic modulators of gene transcription in human cells**

Professor Kevin Morris, The Scripps Research Institute, USA

**17.35 Discussion**

**17.50 End of day 1**

**18.30 Drinks reception**

**18.45 Dinner**

**Tuesday 20 September 2011**

**Session 3 – Session 3: Regulatory RNAs**

**Chair** Professor E Gerhart H Wagner, Uppsala University, Sweden

**09.00 Title TBC**

Dr Olivier Voinnet, Institut de Biologie Moleculaire des Plantes, France

**09.25 Discussion**

**09.40 Convergent transcription and gene silencing**

Dr Monika Gullerova and Professor Nicholas Proudfoot FRS, University of Oxford, UK

**10.05 Discussion**

**10.20 Macro ncRNAs in imprinted gene clusters in the mouse and human genome**

Professor Denise Barlow, Research Center for Molecular Medicine of the Austrian Academy of Science, Austria

**10.45 Discussion**

**11.00 Refreshments**

**11.30 Regulatory RNAs and X-chromosome inactivation**

Dr Edith Heard, Institut Curie - Centre de Recherche Pole de Biologie du Développement et Cance, France

**11.55 Discussion**

**12.10 What are natural antisense transcripts good for?**

Dr Andreas Werner, Newcastle University, UK

**12.35 Discussion**

**12.50 Concluding notes**

**13.00 Lunch**