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

09.50 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 Cancé, 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