**Birmingham Meeting on Genome Structure and Function**

**From genome stability to gene expression control**

**Monday 20th - Tuesday 21st June 2016**

**University of Birmingham**

**Arthur Thompson Hall**

**Day 1: Transcriptional regulation and epigenetics**

9:00 – 10:00 registration and coffee (Atrium)

10:00 – 10:15

Introduction into the BCGB (Conny Bonifer)

**Chair: Conny Bonifer**

10:15 – 10:45:

Jonathan Chubb, University College London

Transcriptional mechanisms from live cell imaging

10:45 – 11:10:

Jorge Ferrer, Imperial College London

Non-coding genome function in pancreatic islets and diabetes

11:10 – 11:35:

Paul Badenhorst, Birmingham

Genome-wide Mapping Targets of the Metazoan Chromatin Remodeling Factor NURF

11:35 – 11:55:

Short Talk Maarten Hoogenkamp, Birmingham

The transcription factor LMO2 initiates development of definitive haemogenic endothelium at the haemangioblast stage

12:00 – 12:25:

Bryan Turner, Birmingham

Stability and dynamics of histone modifications through the cell cycle

**12:25 – 13: 30: Lunch and posters (IBR common room)**

**Chair Bryan Turner**

13:30 – 14:00:

Ann Ferguson Smith, University of Cambridge

Targeting and maintenance of epigenetic states in mammals.

14:00 – 14:25:

Sarah Teichmann, University of Cambridge

Understanding Cellular Heterogeneity

14:25 – 14:50:

Peter Cockerill, Birmingham

The epigenetic basis of acquired immunity revealed by genome-wide profiling

14:50 – 15:15:

Ferenc Muller, Birmingham

TBA

15:15 – 15:45: Coffee (Atrium)

**Chair Ferenc Muller**

15:45 – 16:15:

Wendy Bickmore, University of Edinburgh

The remote control of gene expression

16:15 – 16:40:

Conny Bonifer, Birmingham

Dynamic transcriptional networks regulate hematopoietic specification

16:40 – 17:05:

Eva Petermann, Birmingham

Increased global transcription activity as a mechanism of oncogene-induced replication stress

17:05 – 19:30 Wine reception IBR common room

**2nd day: DNA-repair, replication and environmental genomics**

**Chair: Jo Morris**

9:00 – 9:30:

Jesper Sveijstrup, Francis Crick Institute, London

Transcription and DNA damage

9:30 – 9:55:

Julian Sale, MRC LMB, Cambridge

Determinants of replication-associated epigenetic instability

9:55 – 10:20:

Aga Gambus, Birmingham

Replisome disassembly at the termination of DNA replication forks

10:20 – 10:50: Coffee (Atrium)

**Chair: Grant Stewart**

10:50 – 11:15:

John Rouse, University of Dundee

Control of DNA repair in health and disease

11:15– 11:40:

Grant Stewart, Birmingham

Identification of a novel replication fork protection factor that is mutated in microcephalic primordial dwarfism

11:40 – 12:05:

Jo Morris, Birmingham

The BRCA1:BARD1 Ubiquitin ligase activity counters chromatin barriers to DNA resection

12:05 – 12:25: Short Talk

Matthias Soller, Birmingham

m6A mRNA methylation regulates alternative splicing in Drosophila sex determination

12:30 – 14:00: Lunch and posters

**Chair: John Colbourne**

14:00 – 14:25:

John Colbourne, Birmingham

Adaptive Evolution by Selection on Genome Structural Variation

14:25 – 14:55:

Ben Brown, University of California, Berkeley

Host-microbiome interactions in basal and adverse environmental conditions

14:55: Concluding remarks: **Malcolm Taylor**

End of meeting