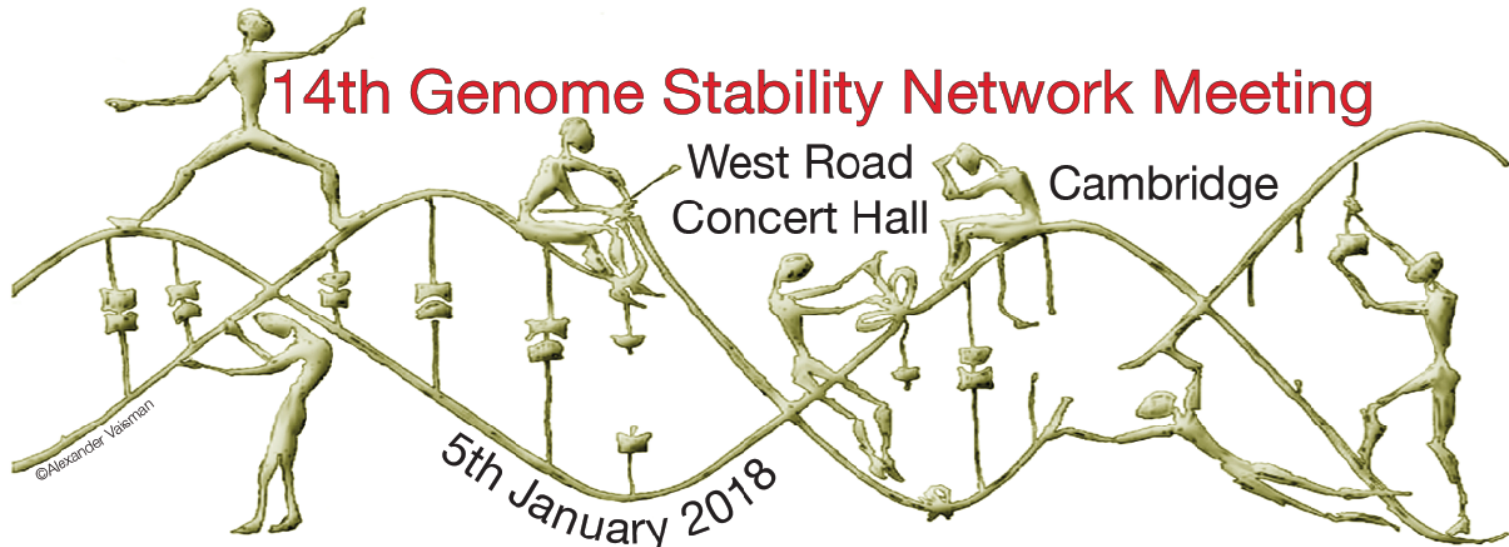


14th Genome Stability Network Meeting

West Road
Concert Hall
Cambridge

5th January 2018



09.15 Reception

10.00 Introduction

Session 1

Chair: David Rueda

10.05 Martin Taylor

Priming efficiency controls the response of the eukaryotic replisome to DNA damage.

10.20 Ferdos Abid Ali

Cryo-EM structure of a Licensed DNA replication origin.

10.35 Roberto Bellelli

Mechanisms and consequences of Pol Epsilon instability in mice and humans.

10.50 Katie Ptasinska

Does modulating the efficiency of origin firing dictate global replication timing domains?

11.05 Nicola Minchell

Transcription promotes replication fork rotation and double stranded DNA intertwining via a cohesin-dependent pathway.

11.20 - 11.50 Coffee

Session 2

Chair: Marco Saponaro

11.50 Sovan Sarkar

IWS1: Linking transcription elongation to DNA double-strand break repair.

12.05 Jordan Becker

DYNLL1 promotes non-homologous end joining and p53-dependent growth arrest by enforcing 53BP1 oligomerisation.

12.20 Peter Sarkies

The Cost of Silence: Evolutionary analyses reveal DNA methyltransferases introduce off-target alkylation damage.

12.35 - 14.00 Lunch including AGM

14.00 **The GSN Medal:**

Professor Malcolm Taylor

introduced by Grant Stewart & William Davis

Session 3

Chair: David Clynes

14.30 Martin Higgs

A novel epigenetic link between histone mobility and replication fork protection during replication stress.

14.45 Isabel Wassing

RAD51 phosphorylation promotes mitotic DNA synthesis upon replication stress.

15.00 Manuel Martin

Phosphorylation of BRCA1 is required for the protection of stalled DNA replication forks.

15.15 Ross Hill

Mammalian crosslink repair is essential for normal germ cell development.

15.30 - 16.00 Coffee

Session 4

Chair: Sarah Allinson

16.00 Kez Cleal

Genome catastrophe driven by break-induced-replication during a telomere crisis.

16.15 Ye Hong

A 'last chance saloon' to maintain genome integrity.

16.30 Sarah McClelland

Non-random mis-segregation of human chromosomes after mitotic and replication stress-induced aneuploidy.

16.45 Gary Chan

Unresolved recombination intermediates lead to chromosome catastrophe.

17.00 Meeting Close

17.30 Coaches leave

AstraZeneca 

ukems
United Kingdom Environmental Mutagen Society

artios
DNA DAMAGE RESPONSE

horizon

MELFORD

Title cartoon courtesy of Alexandra Vaisman and Roger Woodgate, NICHD