

Causes of chromosomal instability in Cancer

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| Locations | S104 Cancer Sciences |
| Date(s) | Tuesday 17th June 2014 (13:00-14:00) |
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Causes of chromosomal instability in Cancer

Dr Sarah McClelland, Barts Cancer Institute, London

Biography

Dr Sarah McClelland's talk should interest anyone who is interested in genomic instability, replication stress or tumour heterogeneity.

Sarah obtained her PhD in Biochemistry at the University of Bristol, followed by postdoctoral fellowships working on DNA damage and cell cycle at SUNY, Marie Curie Research Institute Surrey, and the lab of Charles Swanton at the CRUK LRI. She started her own group at the Barts Cancer Institute, London in 2013.

Key Publications

Burrell RA*, McClelland SE*, Endesfelder D, Groth P, Weller MC, Shaikh N, Domingo E, Kanu N, Dewhurst SM, Gronroos E, Chew SK, Rowan AJ, Schenk A, Sheffer M, Howell M, Kschischo M, Behrens A, Helleday T, Bartek J, Tomlinson IP, Swanton C. Replication stress links structural and numerical chromosomal instability in colorectal cancer. *Nature*. 2013 Feb 28, 494:492-6. PMID: 23446422

Birkbak NJ, Eklund AC, Li Q, McClelland SE, Endesfelder D, Tan P, Tan IB, Richardson AL, Szallasi Z, Swanton C. Paradoxical Relationship between Chromosomal Instability and Survival Outcome in Cancer. *Cancer Res.*, 2011. PMID: 21270108

McClelland SE*, Borusu S*, Amaro AC, Winter JR, Belwal M, McAinsh AD & Meraldi P. The CENP-A NAC/CAD kinetochore complex controls chromosome congression and spindle bipolarity. *EMBO J.*, 2007. PMID: 18007590

Porter IM, McClelland SE, Khoudoli GA, Hunter CJ, Andersen JS, McAinsh AD, Blow J & Swedlow, J.R. Bod1, a novel kinetochore protein required for chromosome biorientation. *J. Cell Biol.*, 2007. PMID: 17938248

Current projects:

- Mechanisms driving chromosomal instability in Ovarian cancer
- Investigating the function of genes overexpressed in cancer in maintenance of genome stability- Investigating the function of genes overexpressed in cancer in maintenance of genome stability
- Understanding the relationship between replication stress and chromosomal instability

Website

<http://www.bci.qmul.ac.uk/staff/item/mcclelland> (<http://www.bci.qmul.ac.uk/staff/item/mcclelland>)

There will be opportunity to speak with Sarah on Tuesday afternoon; please email e.petermann@bham.ac.uk (<mailto:e.petermann@bham.ac.uk>) if you're interested.