

# Chromatin and Epigenetics: from single-cells to multicellular systems

University of Essex, Colchester, September 13, 2019



the **genetics**society  
1919 - 2019

**International  
Nucleome Consortium**



University of Essex



**Agilent**

8.30-8.50 Registration (foyer of the Essex Business School)

8.50-9.00 Welcome

9.00-9.15 **Darren Taylor** (Miguel Branco Lab, QMUL).

*A novel approach to epigenomic profiling of repetitive elements at the single copy level*

9.15-9.30 **Graeme Birdsey** (Imperial College London)

*The transcription factor ERG regulates super-enhancers associated with an endothelial-specific gene expression program*

9.30-10.45 **Sankari Nagarajan** (Jason Carroll Lab, CRUK Cambridge)

*Epigenetic regulation of breast cancer treatment response by a chromatin remodelling complex protein ARID1A*

9.45-10.00 **Antonio Marco** (University of Essex)

*The evolution of cancer microRNAs is driven by regulatory network constraints*

10.00-10.25 **Lars Jansen** (University of Oxford)

*Chromatin-based epigenetic inheritance: Lessons from the mammalian centromere*

10.25-10.50 Coffee break and poster viewing (foyer of the Essex Business School)

10.50-11.30 Keynote talk: **Julie Ahringer** (Gurdon Institute, Cambridge)

*Genome architecture and regulation*

11.30-11.45 **Gi Fay Mok** (Andrea Münsterberg Lab, University of East Anglia)

*Characterizing the dynamic epigenome-transcriptome landscape that controls formation of the vertebrate body axis*

11.45-12.00 **Sara Lopez-Gomollon** (David Baulcombe Lab, Uni of Cambridge)

*Genome-wide analysis of sRNAs and DNA methylation as regulators of transgressive phenotypes in plants*

- 12.00-12.15 **Abdulkadir Abakir** (Alexey Ruzov Lab, University of Nottingham)  
*N6-methyladenosine regulates the stability of RNA:DNA hybrids in the chromatin of human cells.*
- 12.15-13.25 Lunch and poster viewing (foyer of the Essex Business School)
- 13.25-13.50 **Nick Gilbert** (MRC IGMM, Edinburgh)  
*Regulation of large-scale chromatin architecture in human cells*
- 13.50-14.05 **Javier Antunez-Sanchez** (Jose Gutierrez-Marcos Lab, Uni of Warwick)  
*Novel components involved in heterochromatin formation in plants*
- 14.05-14.20 **Rachel Fellows** (Patrick Varga-Weisz Lab, Babraham Institute, University of Cambridge & University of Essex)  
*Histone crotonylation links gene expression to the microbiome in the colon*
- 14.20-14.35 **Chris Clarkson** (Vlad Teif lab, University of Essex)  
*The DNA sequence-dependent strength of CTCF binding determines asymmetric chromatin boundaries*
- 14.35-14.50 **Effie Kostareli** (Queen's University of Belfast)  
*Ibrutinib affects epigenome in Chronic Lymphocytic Leukaemia*
- 15.50-15.05 **Ben Skinner** (University of Essex)  
*Mapping chromosome positions using nuclear cartography*
- 15.05-15.30 Coffee break and poster viewing (foyer of the Essex Business School)
- 15.30-15.55 **Sara Buonomo** (University of Edinburgh)  
*Uncoupling nuclear architecture and replication timing*
- 15.55-16.10 **Nicolae Radu Zabet** (University of Essex)  
*Dissecting the mechanisms that control Topologically Associated Domains in Drosophila*
- 16.10-16.25 **Tyler Gorrie-Stone** (Leo Schalkwyk Lab, University of Essex)  
*Tools for the new generation of EWAS*
- 16.25-16.40 **Martina Rimoldi** (Paul Flicek Lab, EMBL-EBI)  
*Co-evolution of transcription factor binding and DNA methylation in mammals*
- 16.40-16.55 **Mikhail Spivakov** (Imperial College London)  
*The role of architectural proteins in facilitating enhancer-promoter contacts*
- 16.55-17.00 Closing remarks