

4<sup>th</sup> Oxford Symposium – Epigenetic Mechanisms in Health & Disease  
New Frontiers in Epigenetics

24-26 June 2015

Saïd Business School – Park End Street  
Oxford

PROGRAMME

Day 1  
24 June 2015

Inflammation

09.00            **Arrival & registration**  
                    **Coffee, tea & pastries**  
                    *Entrance Hall, East Wing*

*Proceedings:*  
*Nelson Mandela*  
*Lecture Theatre,*  
*East Wing*

09.45            **Welcome:** Udo Oppermann & Susanne Müller-Knapp, University of  
                    Oxford

10.00            **Plenary Lecture**  
                    Jay Bradner, Dana-Farber Cancer Institute, Harvard Medical School:  
                    *Sensitivity & resistance to bromodomain inhibition*

11.00            Fiona Powrie, Kennedy Institute, University of Oxford:  
                    *Gut reactions: immune pathways in the intestine in health & disease*

11.35            Massimiliano Pagani, INGM:  
                    *Long intergenic noncoding RNAs: novel drivers of human lymphocyte*  
                    *differentiation*

12.10            **Lunch/Poster Session**  
                    *Entrance Hall, East Wing*

14.00            Rab Prinjha, GlaxoSmithKline:  
                    *Epigenetics: progression of pharmacological tools for the*  
                    *understanding & treatment of disease*

- 14.35 Yannick Morias, AstraZeneca:  
*Understanding the role of epigenetics in regulating human alveolar macrophage polarisation & function in COPD*
- 15.10 Mattia Frontini, Blueprint Consortium:  
*Enhancer promoter long-range interactions define intra chromosomal regulatory hubs in megakaryopoiesis*
- 15.25 Adam Cribbs, DPAG/Botnar, University of Oxford:  
*Selective modulation of Natural Killer (NK) cell phenotypes through chromatin modifying mechanisms*
- 15.40 **Coffee, tea & biscuits**  
**Entrance Hall, East Wing**
- 16.10 Menno de Winther, University of Amsterdam:  
*Macrophages in atherosclerosis: phenotype regulation by epigenetic pathways*
- 16.45 Paul Bowness & Ariane Hammitzsch, NDORMS, University of Oxford:  
*CBP30, a selective CBP/p300 bromodomain inhibitor, suppresses Th17 responses in human inflammatory arthritis*
- 17.20 Aoife Ward, Cellzome/GlaxoSmithKline:  
*Global identification of genomic loci bound by epigenetic protein complexes*
- 17.35 **Close of Day 1**

Day 2  
25 June 2015

## Epigenetics

*Proceedings:*  
*Nelson Mandela*  
*Lecture Theatre,*  
*East Wing*

- 08.50            **Introduction:** Jörn Walter, Saarland University
- 09.00            **Plenary Lecture**  
Henk Stunnenberg, Radboud University Nijmegen:  
*Comprehensive epigenome maps of innate immune cells: identifying therapeutic targets*
- 09.50            Michael Sundström, SGC:  
*From bedside to the bench: preclinical target validation using patient-cell derived assays*
- 10.25            Tomi Pastinen, McGill University:  
*Sequence-specific epigenetic variation: opportunities & challenges*
- 11.00            **Coffee, tea & biscuits**  
***Entrance Hall, East Wing***
- 11.30            Marco Bianchi, DIBIT, Milan:  
*Pharmacological reduction of histone levels facilitates gene editing*
- 12.05            Rob Klose, Department of Biochemistry, University of Oxford:  
*Interpreting the CpG island signal*
- 12.40            Robert Schneider, IGBMC:  
*H2B methylation – a new guardian of transposable elements*
- 13.15            **Lunch**  
***Entrance Hall, East Wing***
- 14.15            Stefan Knapp, Goethe University Frankfurt:  
*Towards a chemical probe set targeting the human bromodomain family of epigenetic reader domains*
- 14.50            Roland Schuele, University of Freiburg  
*Posttranslational modified LSD1 controls genome integrity*

- 15.25 Hinrich Gronemeyer, IGBMC Strasbourg:  
*Human cells contain natural double-stranded RNAs with key regulatory potential*
- 16.00 **Coffee, tea & cakes**  
*Entrance Hall, East Wing*
- 16.30 Lucia Altucci, II Università di Napoli:  
*miRNA deregulation in AMLs: hints & tips for precision medicine*
- 17.05 Michiel Vermeulen, Radboud University Nijmegen:  
*Quantitative interaction proteomics for epigenetics*
- 17.40 Saverio Minucci, European Institute of Oncology, University of Milan:  
*Chromatin alterations in acute myeloid leukemias as therapeutic opportunities*
- 18.10 **Closing remarks:** Chas Bountra, SGC, University of Oxford
- 18.40 **Close of Day 2**

West Wing, Saïd  
Business School

Day 3  
26 June 2015

Chemistry  
Workshop

08.30                    **Registration**  
*Reception, West Wing*

**Coffee & tea**  
*Classroom 1, West Wing*

*Proceedings:*  
*Classroom 2,*  
*West Wing*

09.00                    **Plenary Lecture**  
Tim Willson, GlaxoSmithKline:  
*Chemistry & the search for new (& old) biology*

09.45                    Dafydd Owen, Pfizer:  
*From hit to phenotype: the SGC-Pfizer chemical probes*

10.10                    Panel discussion

10.40                    **Coffee, tea & pastries**  
*Classroom 1, West Wing*

11.10                    Matthieu Schapira, SGC, University of Toronto:  
*Structural chemistry of protein methyltransferase inhibition*

11.35                    Manfred Jung, University of Freiburg:  
*New tools to probe sirtuin biology*

12.10                    Jian Jin, Icahn School of Medicine at Mount Sinai:  
*Discovery of chemical probes for histone methyltransferases*

12.35                    Paul Fish, UCL:  
*Chemical probes for the bromodomain of the BRPF family*

12.50                    Sara Sdelci, CEMM, Vienna:  
*REDS: Reporter for Epigenetic Drug Screening*

- 13.10            **Lunch**  
*Classroom 1, West Wing*
- Lunch will include a presentation by Eurofins Cerep at 14.05 in Classroom 2**
- Manilduth Ramnath, Eurofins Cerep:  
*Label free high throughput screening of inhibitors against epigenetic writers & erasers*
- 14.25            Christopher Schofield, Department of Chemistry, University of Oxford:  
*Exploring oxygenases as potential drug targets*
- 14.50            Danica Fujimori, University of California, San Francisco:  
*Discovery of potent demethylase inhibitors via docking & linking fragments*
- 15.25            Paul Brennan, SGC, University of Oxford:  
*Chemical probes for epigenetic proteins*
- 15.50            Panel discussion
- 16.20            **Close of Day 3 & of the Symposium**