

Programme Summary

	Sunday 2	Monday 3	Tuesday 4	Wednesday 5			
0845	<p>Lectures in auditorium Coffee breaks in foyer Meals in dining hall</p>	<p>Keynote lecture: Miriam C Poirier, Bethesda, USA</p>	<p>Keynote lecture: Robert Turesky, Minnesota, USA</p>				
0900					<p>Plenary lectures: Moritz Gerstung, Cambridge Jill Kucab, London</p>	<p>Plenary lectures: James Whitwell, Harrogate Amy Wilson, Cambridge</p>	<p>Plenary lectures: Simon Reed, Cardiff Jo Morris, Birmingham Karen Brown, Leicester</p>
0930							
1000							
1030		Coffee Break					
1100	Registration opens	<p>Plenary lectures: Kevin Hiom, Dundee Julian Sale, Cambridge Jessica Downs, London</p>	<p>4x15 minute talks selected from abstracts</p>	<p>Plenary lectures: Stefano Bonassi, Rome Bozena Smolkova, Bratislava Hannah Elliot, Bristol Jacqui Shaw, Leicester</p>			
1130			<p>UKEMS Young Scientist Award 2018</p>				
1200		<p>Lunch UKEMS AGM</p>	<p>Presentation from Merck, followed by Lunch</p>	<p>End of conference</p>			
1230							
1300		<p>NUKEMS Pre-conference session: Poster pitches and Panel discussion</p>	<p>Plenary lectures: Peter Møller, Copenhagen Matthew Tate, Alderley Edge Jonine Figueroa, Edinburgh Michael Routledge, Leeds</p>	<p>Plenary lectures: Shana Sturla, Zurich Lieselot Hemeryck, Ghent George Preston, London</p>			
1345					Coffee Break		
1400					<p>Poster session: Odd-numbered posters for 1st hour, even numbered posters for 2nd hour</p>	<p>Plenary lectures: Shareen Doak, Swansea John Wills, Cambridge</p>	
1415	<p>Jim Parry Award Lecture: Peter Farmer, Leicester</p>						
1445							
1515	<p>Welcome: Mick Fellows & David Phillips, UKEMS Keynote lecture: Ketan Patel, Cambridge</p>	Free time					
1545		Dinner					
1615							
1630		<p>Reception</p>	<p>Drinks reception & Conference dinner, followed by disco</p>				
1645							
1700							
1745							
1800							
1830							
1845							
1930							

Sunday 2 September

11:00 - 18:30 Registration open

14:00 - 16:30 NUKEMS Pre-conference session

14:00 - 15:30 Poster pitches

15:30 - 15:45 Coffee Break

15:45 - 16:30 Panel Discussion with 4 distinguished scientists in the field – bring questions to help plan your career path

17:00 - 18:30 Opening of Conference

Welcome from **Mick Fellows**, UKEMS President, AstraZeneca, Cambridge

Welcome from **David Phillips**, Conference Chair, King's College London

Keynote Lecture: **Ketan Patel**, FRS, MRC Laboratory of Molecular Biology, Cambridge

Reactive aldehydes as a source of endogenous DNA damage and mutations in stem cells K01

18:30 - 19:30 Welcome Reception

Monday 3 September

08:00 - 17:00 Registration open

Morning Sessions chaired by Simon Reed & Shareen Doak

08:45 - 09:30 Keynote lecture: **Miriam C. Poirier**, National Cancer Institute, Bethesda, USA
Linking DNA adduct formation with human cancer etiology
K02

09:30 - 10:30 Plenary lectures

09:30 - 10:00 **Moritz Gerstung**, EBI, Cambridge:
*Mutational signatures in *C. elegans* and human cancers*
O01

10:00 - 10:30 **Jill Kucab**, King's College London: *Whole-genome mutation signatures of carcinogens in stem cells* O02

10:30 - 11:00 Coffee Break

11:00 - 12:30 Plenary lectures

11:00 - 11:30 **Kevin Hiom**, University of Dundee: *RNA processing and its impact of genome stability- when two worlds collide*
O03

11:30 - 12:00 **Julian Sale**, MRC Laboratory of Molecular Biology, Cambridge: *Repriming limits R-loop formation at DNA secondary-structure forming sequences* O04

12:00 - 12:30 **Jessica Downs**, Institute of Cancer Research, London: *Protective packaging for DNA: chromatin remodelling complexes prevent genome instability* O05

12:30 - 13:45 Lunch, UKEMS AGM

13:45 - 15:45 Plenary lectures chaired by Ann Doherty & Steve Dean

13:45 - 14:15 **Peter Møller**, University of Copenhagen: *Three decades of the comet assay: are we ready for another 30 years?*
O06

14:15 - 14:45 **Matthew Tate**, Gentronix, Alderley Edge: *Challenges of assessing NIAS genotoxicity in food contact materials (Non-intentionally Added Substances &/or None Identifiable Hazardous Substances)* O07

14:45 - 15:15 **Jonine Figueroa**, University of Edinburgh: *Modification of smoking and occupational exposures on bladder cancer risk by common genetic polymorphisms* O08

15:15 - 15:45 **Michael Routledge**, University of Leeds: *Epigenetic and transcriptomic responses to aflatoxin exposure in vivo and in vitro* O09

15:45 - 16:45 Poster session: Odd-numbered posters

16:45 - 17:45 Poster session: Even-numbered posters

17:45 - 19:00 Free time for optional activities: punting, historical tour, climb up Magdalen Tower

18:00 - 19:30 Dinner

Tuesday 4 September

Morning Sessions chaired by George Johnson & Leanne Stannard

08:45 - 09:30 Keynote lecture: **Robert Turesky**, University of Minnesota: *Assessing exposures to dietary carcinogens: strategies and approaches for human biomonitoring* K03

09:30 - 10:30 Plenary lectures

09:30 - 10:00 **James Whitwell**, Covance, Harrogate: *Extended treatment with recovery is required for detection of certain chemicals in the human peripheral blood lymphocyte assay* O10

10:00 - 10:30 **Amy Wilson**, AstraZeneca, Cambridge: *High content comparison of GeneTox responses in parent and p53 knock out cell lines* O11

10:30 - 11:00 Coffee Break

11:00 - 12:00 NUMEMS Young Scientist Session: 4 x 15 minute talks selected from proffered abstracts

11:00 - 11:15 **Sam Khan**, Leicester University: *Targeting cancer stem-like cells in 3D human colorectal cancer explant models for the evaluation of cancer prevention and treatment agents* O12

11:15 - 11:30 **Sarah Gee**, Cambridge: *Evaluation of 3D bone marrow models for genotoxicity testing* O13

11:30 - 11:45 **Macaulay Winter**, University of the West of England, Exeter: *Detection of leukaemic cell sensitivity to the chemotherapeutic agent cytarabine using a novel bacterial biosensor* O14

11:45 - 12:00 **Lauren Clarke**, University of Bath: *Utilizing amplicon sequencing and qPCR to further understand the EMS response in the in vitro Pig-a assay in L5178Y cells* O15

12:00 - 12:30 UKEMS Young Scientist Award 2018: **Rhiannon David**, AstraZeneca, Cambridge: *A scientific journey from DNA damage in algae to next generation sequencing human stem cells* O16

12:30 - 12:45 Presentation from Merck



12:45 - 13:45 Lunch

13:45 - 16:45 Plenary lectures chaired by Volker Arlt & Julia Kenny

13:45 - 14:15 **Shana Sturla**, ETH Zurich: *DNA adduct molecular probes: From mechanisms of mutagenesis to adduct mapping and amplification* O17

Tuesday 4 September

- 14:15 -14:45 **Lieselot Hemeryck**, Ghent University: *Unravelling the genotoxic effects of red meat digestion by means of DNA adductomics* O18
- 14:45 - 15:15 **George Preston**, King's College London: *Untargeted albumin adductomics for biomarker discovery in environmental epidemiology* O19
- 15:15 - 15:45 Coffee Break**
- 15:45 - 16:15 **Shareen Doak**, Swansea University: *3D liver spheroids for genotoxicity testing* O20
- 16:15 -16:45 **John Wills**, Cambridge University: *In situ cytometry to characterise interactions of food-grade titanium dioxide particles with intestinal immune cells in vivo* O21
- 16:45 - 17:45 Jim Parry Award Lecture:
Chair: Karen Brown
Peter Farmer, Leicester University:
DNA and protein modification by genotoxic agents O22
- 18:45 - 19:30 Pre-dinner reception drinks**
- 19:30 - 00:00 Conference dinner**
Followed by disco and bar

Wednesday 5 September

09:00 - 13:00 Plenary lectures chaired by Frank Martin & Julie Clements

09:00 - 09:30 **Simon Reed**, Cardiff University: *How chromatin is remodelled during global genome NER: origins of repair* O23

09:30 - 10:00 **Jo Morris**, Birmingham University: *BRCA1-mediated fork protection* O24

10:00 - 10:30 **Karen Brown**, Leicester University: *Colorectal cancer prevention – is aspirin just the start?* O25

10:30 - 11:00 Coffee Break

11:00 - 11:30 **Stefano Bonassi**, San Raffaele University, Rome: *Biomarkers of DNA damage in clinical practice: the example of frailty status in the elderly* O26

11:30 - 12:00 **Bozena Smolkova**, Cancer Research Institute, Bratislava: *Can cancer risk be identified early in life?* O27

12:00 - 12:30 **Hannah Elliott**, University of Bristol: *The role of DNA methylation in type 2 diabetes aetiology* O28

12:30 - 13:00 **Jacqui Shaw**, Leicester University: *Profiling ctDNA for early detection and monitoring of breast cancer* O29

13:00 End of conference