2023 Birmingham Centre for Genome Biology Symposium 29/30th June Programme. University of Birmingham Medical School Leonard Deacon Lecture Theater and Wolfson common room.

	BCGB SYMPOSIUM THURSDAY 29 TH JUNE 2023				
09:00	Registration Wolfson Common Room				
09:50	Welcome + Introduction to BCGB	Ferenc Mueller			
09.50					
	Session 1: DNA Repair and replication	Chair: Martin Higgs			
10:00	The SWI/SNF chromatin remodelling complex prevents genome instability in G quadruplex containing	Jessica Downs (ICR, UK)			
	chromatin				
10:25	Loss of Ezh2 function remodels the DNA replication initiation landscape	Ildem Akerman			
10:40	Initial processing of perturbed replication forks regulates repair pathway choice at ALT telomeres	Ronan Broderick			
10:55	DONSON facilitates Cdc45 and GINS chromatin association and is essential for DNA replication initiation	Aga Gambus for Georgia Kingsley			
11.10	The SPATA5-SPATA5L1 ATPase complex direct replisome proteostasis to ensure genome integrity	Martina Foglizzo (Leeds UK)			
11:25	Flash Poster Session (odd numbers) 5 minute sponsor presentation	5 posters each 2 min person			
11:45		Poster Panel Judges:			
	Session 2: Gene regulation in blood cells	Chair: Conny Bonifer			
13:30	Genome form and function	Matthias Merkenschlager (Imperial UK)			
13:55	Transcriptional Control of Embryonic Blood Cell Development	Bertie Gottgens (Cambridge UK)			
14:20	A Leukemic stem cells hijack lineage inappropriate	Sophie Kellaway			
14:35	signalling pathways to promote their growth The molecular basis of T cell memory	Peter Cockerill			
14:50	Rapid establishment of a tumour-retained state curtails the contribution of conventional NK cells to anti-tumour immunity in solid cancers	David Withers			
15:05	The alternative Nucleosome Remodeling Factor complex sustains acute myeloid leukemia by regulating the accessibility of insulator regions	Aliaksandra Radzisheuskaya (ICR UK)			
15:20	Afternoon Tea. Wolfson Common Room				
	Session 3: RNA in genome regulation	Chair: Teresa Carlomagno			
15:50	Mechanistic insight into the mRNA poly(A) tail machinery	Lori Passmore (Cambridge UK)			
16:15		Diu Nguyen (QMUL UK)			
16:40	Transcription initiation site choice precedes mTOR- dependent RNA metabolism and defines cancer differentiation and radiotherapy sensitivity	Joe Wragg			
16:55	Keynote Speaker introduction	Conny Bonifer			
17:00	Weird nuclear noncoding RNAs regulating DNA methylation, transcription, DNA replication, and DNA	Keynote Daniel Tenen (Harvard USA)			
17:30	trinucleotide repeat expansion Poster Session (all numbers) and Wine Reception Wolfson Common Room				
	19:30 Speaker's dinner (Edgbaston Park Hotel)				

BCGB SYMPOSIUM FRIDAY 30 TH JUNE 2023		
	Session 4: DNA repair and Cancer	Chair: Jo Morris
09:00	The role of PARPs in DNA repair and genome stability	Nick Lakin (Oxford UK)
09:25	Combining radiotherapy with inhibitors of the DNA damage response: effects on glioblastoma and the normal brain	Anthony Chalmers (Glasgow UK)
09:50	RNA Polymerase II major subunits overexpression induces genome instability and deregulates transcription	Martina Muste Sadurni
10:05	Recent and ongoing early Phase trials involving DNA damage repair inhibitors in relapsed/refractory paediatric cancer patients and potential implications for translational research and new paediatric and adult cancer trials	Susanne Gatz
10.20	Parse Biosciences Sponsor Talk	
10:25	Coffee Break Wolfson Common Room	
10:55	Phosphorylation of ubiquitin as a novel post- translational modification in the double strand break response	Abigail Farrell
11:10	Comparative Functional Analysis of Toxicity Responsive Genes in Daphnia and Mouse Hepatocytes	Shay Glasgow
11:25	REC drives recombination to repair double-strand breaks in animal mtDNA	Hansong Ma
11:40	Flash Poster Session (even numbers)	5 posters each 2 min person
12:00	Lunch and poster session (even numbers) Wolfson Common Room	Poster Panel Judges:
	Session 5: Gene regulation in development and disease	Chair: Rui Monteiro
13:30	Deciphering the roles of telomerase in multi-tissue senescence and inflammation, using the zebrafish model	Catarina Henriques (Sheffield UK)
13:55	A Cytokine signalling reprograms the gene regulatory network of FLT3-ITD Acute Myeloid Leukaemia in response to FLT3 inhibition: A crucial role of RAS and RUNX1 in overcoming drug resistance	Daniel Coleman
14:10	Runx1 is a Key Transcription Factor That Drives Synovial Fibroblast Pathogenicity in Rheumatoid Arthritis	Chris Mahoney
14:25	Investigating the Relationship Between Genome Structure and Function at the Globin Locus	Douglas Higgs (Oxford UK)
14:50	Coffee Break Wolfson Common Room	
15:20	Mechanisms of extreme long-range gene regulation in human craniofacial development	Hannah Long (Edinburgh UK)
15:45	Gene expression dynamics in the Drosophila embryo	Hilary Ashe (Manchester UK)
16:10	Paloma and Clare	
16:25	Keynote Speaker introduction	Peter Cockerill
16:30	The lymphomyeloid bridge: transcription factors and the epigenome in early T cell development	Ellen Rothenberg (CalTech USA)
17:00	Talks and Poster Awards	
17:10	Concluding remarks	