

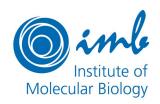
## IMB/SFB 1361 Conference - "Restore, Reorganise, Repurpose: The many faces of DNA repair" 20 - 23 September 2022



12:00 - 13:00	Registration (Welcome Coffee & Snacks)			
Welcome Addı	ress			
13:00 - 13:15	Helle Ulrich			
Keynote Lectu	re			
Chair: Brian Lu	ke			
13:15 - 14:00	Karlene Cimprich	Stanford University, Palo Alto, US	Mechanisms for RNA-mediated genome instability	
Session 1: Keep	oing RNA in check			
Chair: Brian Lu	ke			
14:00 - 14:30	<u>Natalia Gromak</u>	University of Oxford, UK	Beyond the R-loop proteome: the expanding roles of the R-loop interactors	
14:30 - 15:00	Madalena Tarsounas	University of Oxford, UK	Mitotic DNA synthesis is caused by transcription- replication conflicts in BRCA2-deficient cells	
15:00 - 15:15	Henriette Stoy	University of Zurich, CH	Direct visualization of transcription-replication conflicts reveals postreplicative DNA:RNA hybrids	
15:15 - 15:30	Thorsten Mosler	SFB 1361, IMB Mainz, DE	R-loop proximity proteomics identifies a role of DDX41 in transcription-associated genomic instability	
15:30 - 16:00	Coffee Break			
Session 2: Con	trolling gene expression			
Chair: Andriy K	hobta			
16:00 - 16:30	<u>Petra Hajkova</u>	MRC London Institute of Medical Sciences, UK	Stability, turnover and erasure of epigenetic information in vivo	
16:30 - 17:00	Cynthia Burrows	University of Utah, Salt Lake City, US	Base excision repair in G-quadruplexes impacts gene expression	
17:00 - 17:15	Jan Grosser	Karolinska Institute, Solna, SE	Inhibition of TOP1 and BRD4 selectively kills tumours by inducing read-through transcription	
17:15 - 17:30	Michael Musheev	SFB 1361, IMB Mainz, DE	Mammalian N1-adenosine PARylation is a reversible DNA modification	
17:30 - 20:30	Welcome Reception & F	Poster Session 1		

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Session 3: Promoting genome replication				
Chair: Cristina Cardoso				
09:00 - 09:30	Sarah Lambert	Institute Curie, University Paris- Saclay, Orsay, FR	Nuclear positioning and SUMOylation functions in recombination-mediated replication fork integrity and restart	
09:30 - 10:00	<u>Dana Branzei</u>	IFOM, Milan, IT	Dealing with replication damage at the fork and in its wake	
10:00 - 10:15	Vincent Pagès	CRCM, CNRS, Marseille, FR	Lesion bypass in yeast: at the fork or behind the fork?	
10:15 - 10:30	Félix Prado	CABIMER, Seville, ES	Parental histone distribution and location of the replicative block at nascent strands control homologous recombination	
10:30 - 10:45	Ronald Wong	SFB 1361, IMB Mainz, DE	Functions of the chromatin remodeller INO80 in DNA damage bypass	



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10:45 - 11:15	Coffee Break		
11:15 - 11:45	<u>Julian Sale</u>	MRC Laboratory of Molecular Biology, Cambridge, UK	The mutagenic footprint of DNA replication origins
11:45 - 12:00	Boris Pfander	MPI Martinsried, CECAD, DLR & University of Cologne, DE	Unscheduled DNA replication in G1 causes genome instability and damage signatures indicative of replication collision
12:00 - 12:15	Juan de Dios Barba Tena	IGMM, CNRS, Montpellier, FR	DNA polymerase α phosphorylation allows slow- replicating cells to complete genome replication by MiDAS
12:15 - 12:30	Natalie Schindler	SFB 1361, University of Mainz, DE	Genetic requirements for repair of lesions caused by single genomic ribonucleotides in S phase
12:30 - 13:15	Lunch		
13:15 - 13:45	Roger Greenberg	University of Pennsylvania, Philadelphia, US	A new AAA+ unfoldase complex in replication protein quality control
13:45 - 14:00	Uddipta Biswas	University of Zurich, CH	Interferon/ISG15 restores replication fork stability, cell viability and chemoresistance in BRCA-defective cells
14:00 - 14:15	Paulina Prorok	SFB 1361, University of Technology Darmstadt, DE	Role of the Timeless/Tipin complex in the replisome response to stress
14:30 - 22:00	Excursion & Dinner		
Chair: Thomas 09:00 - 09:30	<u>Laura Niedernhofer</u>	University of Minnesota,	Cellular and organismal outcomes of endogenous
03.00 03.00	<u>Ladra Medermiorer</u>	Minneapolis, US	DNA damage
09:30 - 10:00	KJ Patel	MRC Laboratory of Molecular Biology, Cambridge, UK	Formaldehyde-induced endogenous DNA damage disrupts blood regeneration, nutritional homeostasis
10:00 - 10:30	Philippe Pasero	University of Montpellier, CNRS, FR	and promotes ageing  Signaling replication stress beyond cell boundaries
10:30 - 11:00	Coffee Break		
11:00 - 11:30	Björn Schumacher	CECAD, University of Cologne, DE	The DNA damage response in ageing, disease and inheritance: new insights from C. elegans
11:30 - 11:45	Markus Christmann	SFB 1361, University Medical Center Mainz, DE	p21-dependent CDK4 silencing and activation of the DREAM complex is sufficient to mediate B[a]P and IR-induced cellular senescence
11:45 – 12:00	Hans-Peter Wollscheid	SFB 1361, IMB Mainz, DE	Walking in actin's footsteps: The role of myosin VI in DSB repair and DNA replication stress
12:00 - 12:15	Lili Pan	SFB 1361, University of Mainz, DE	Specific vulnerability of long telomeres to undergo end fusions revealed by mutational analysis of Rap1
12:15 - 13:00	Lunch		
Session 5: Maii	ntaining the chemistry of I	DNA	
Chair: Andriy K	hobta		
13:00 - 13:30	Ben van Houten	University of Pittsburgh, US	Novel role of nucleotide excision repair proteins in the removal of base damage



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13:30 - 14:00	Puck Knipscheer	Hubrecht Institute, University Medical Center Utrecht, NL	RNA transcripts suppress G-quadruplex structures through G-loop formation	
14:00 - 14:30	<u>Yves Pommier</u>	Center for Cancer Research, NIH, Bethesda, US	Repair of topoisomerase cleavage complexes	
14:30 - 14:45	Hannes Lans	Erasmus University Medical Center, Rotterdam, NL	Persistent TFIIH binding to DNA damage impairs in vivo neuron functionality	
14:45 - 15:00	Chris Carnie	University of Cambridge, UK	Using genome-wide CRISPR screens to explore DNA- protein crosslink repair	
15:00 - 18:00	Coffee Break & Poster Session 2			
Outreach Lect	ure			
Chair: Helle Ul	rich			
18:00 - 18:45	Björn Schumacher	CECAD, University of Cologne,	Das Geheimnis des menschlichen Alterns: Neue	
		DE	Erkenntnisse aus der Biologie des Alterns	
18:45	Free evening // Dinner & Get-Together for Invited Speakers & SFB 1361 PIs			
Friday, 23 Se	ptember			
Keynote Lectui	re			
Chair: Helle Ulr	rich			
09:00 - 09:45	John Diffley	The Francis Crick Institute,	How DNA replication initiates and what happens	
		London, UK	when it goes wrong	
Session 6: Taki Chair: Karl-Pete	i <b>ng care of breaks &amp; ends</b> er Hopfner			
09:45 - 10:15	Zuzana Storchova	Technical University of Kaiserslautern, DE	Replication stress as a consequence of aberrant mitosis	
10:15 - 10:45	Wolf-Dietrich Heyer	University of California, Davis, US	Double-strand break repair by homologous recombination	
10:45 - 11:00	Rebekka Karbstein	Karlsruhe Institute of Technology, DE	Crucial role of WSS1A in DPC repair and maintenance of genome integrity in plants	
11:00 - 11:30	Coffee Break			
11:30 - 12:00	Evi Soutoglou	University of Sussex, Brighton, UK	Pol ϑ-dependent compromised DNA repair fidelity in embryonic stem cells	
12:00 - 12:15	Jean-Baptiste Charbonnier	I2BC, Institute Joliot, University of Paris-Saclay, CNRS, FR	PAXX binding to Ku70 provides functional redundancy to XLF in NHEJ	
12:15 - 12:30	Michael Ensminger	SFB 1361, University of	POL&-mediated end-joining is restricted by RAD52	
	-	Technology Darmstadt, DE	and BRCA2 until the onset of mitosis	
Closing Remark	ks & Prizes			
12:30 – 12:45	Organisers			
	U:			