4th German-French DNA Repair Meeting, Cologne 2017
September 21-23, 2017

Venue: Max Planck Institute for the Biology of Ageing, Joseph-Stelzmann-Strasse 9b, 50931 Cologne, Germany

September 21st , 2017

12.00 -14.00 **Registration**

Session I: DNA repair mechanisms: Biochemistry, structure and chromatin

14.00 – 14.15 Welcome **Björn Schumacher**
14.15 – 14.45 **Caroline Kisker** *University of Würzburg, Würzburg*, "RecQ4 - the odd one out in the RecQ helicase family"
14.45 – 15.10 **Jean-Marc Egly** *IGBMC, University of Strasbourg, „*Cockayne syndrome A and B proteins regulate transcription arrest through a ubiquitin/proteasome degradation process"
15.10 – 15.35 **Marta Llorens Agost** *Technical University Darmstadt*, "Rad52 prevents mis-rejoining of double-strand breaks in the absence of BRCA2"
15.35 – 16.00 **Pablo Radicella** *Institute of Cellular and Molecular Radiobiology, CEA,* "Cohesin and Mediator are required for the initiation of Base Excision repair in the nucleus"
16.00 – 16.25 **Boris Pfander** *Max Planck Institute of Biochemistry Martinsried,* "Chromatin constitutes a bottleneck in the response to double strand breaks"

16.25 – 16.55 *Coffee break*
16.55 – 17.25 **Bernard Lopez** *Institut de Cancérologie Gustave-Roussy, Villjuif,* "Distance effects on double strand break repair efficiency and accuracy: consequences on genome stability in mammalian cells."
17.25 – 17.50 **Martijn Luijsterburg** *Leiden University,* "A PALB2-interacting Domain in RNF168 Couples Homologous Recombination to DNA Break-Induced Chromatin Ubiquitylation"
17.50 – 18.15 **Thomas Clouaire** *Université de Toulouse,* "Characterising the chromatin landscape at DNA double strand breaks"
18.15 – 18.40 **Aswin Mangerich** *University of Konstanz,* "Non-covalent interaction of poly(ADP-ribose) with the C-terminal domain of p53 determines substrate targeting by PARP1"

18.45 – 21.00 *Poster session / Kölsch, Snacks*

September 22nd , 2017
Session II: Genome integrity in the context of replication and transcription

09.00 – 09.30 **Philippe Pasero** *Institute of Human Genetics, Montpellier*
09.30 – 09.55 **Aaron Mandez Bermudez** *Institute for Research on Cancer and Aging (IRCAN), Nice***,** "The telomeric protein TRF2 prevents senescence by assisting replication of pericentromeric heterochromatin"
09.55 – 10.20 **George Iliaks** *University of Duisburg-Essen Medical School, Essen,* "Saturation of Homologous Recombination repair as a mechanism of DNA double-strand break repair pathway choice"
10.20 – 10.45 **Cedric Debes** *CECAD Research Center, University of Cologne,* "Ageing-associated changes in transcription and splicing efficiency"

10.45 – 11.15 *Coffee break*

11.15 – 11.45 ***Michelle Debatisse*** *Institute Curie, Paris,* "Common fragile site instability: a race against time"
11.45 – 12.10 ***Katrin Paeschke*** *European Research Institute for the Biology of Ageing (ERIBA) Groningen, "A potential link between G-quadruplex structures and repair"*
12.10 – 12.35 **Berit Jungnickel** *Friedrich Schiller University Jena,* **"**Control of AID activity and somatic hypermutation by PARP-1"
12.35 – 13.00 **Matthias Altmeyer** *University of Zurich,* „DSB repair pathway choice in the context of replicating chromatin"

13.00 – 14.45 *Poster session / Lunch*

Session III: DNA damage responses in aging and diseases

14.45 – 15.15 **Björn Schumacher** *CECAD Research Center, University of Cologne,* "Genome Stability in Development and Aging: An organismal perspective"
15.15 – 15.40 **Gilbert Weldinger** *Ulm University,* "Zebrafish heart regeneration depends on alleviation of cardiomyocyte replication stress by BMP signaling"
15.40 – 16.05 **Stephanie Panier** *The Francis Crick Institute, London,* **"**The SLX4-interacting protein SLX4IP limits BLM-dependent telomere instability in ALT cells*"*
16.05 – 16.25 **George Garinis,** *Institute of Molecular Biology and Biotechnology-FORTH***,** *Heraklion*, **"**Nucleotide Excision Repair: from Chronic Inflammation to Tissue Degeneration"

16.05 – 16.30 *Coffee break*

16.30 – 17.00 **Markus Löbrich,** *Technical University, Darmstadt,* **"**ATRX promotes DNA repair synthesis and cross-over formation during homologous recombination"

17.00 – 17.25 **Françoise Dantzer**, *UMR7242, Biotechnology and Cell Signaling, Illkirch* "PARP3 in continuous and stress-induced neurogenesis in brain"

17.25 – 17.50 **Lara Perez-Martinez** *Institute of Molecular Biology gGmbH , Mainz,* „Identification of novel proteins implicated in the regulation of senescence in budding yeast"

17.50 – 18.15 **Matthias Rieckher** *CECAD Research Center, University of Cologne,* "Investigating a systemic DNA damage response in the *C. elegans* soma"

18.15 – 18.30 Poster prize

19.30 *Conference Dinner*

September 23rd, 2017

Session IV: Genome Integrity in cancer development and therapy

09.00 – 09.30 **Clemens Schmitt** *Max-Delbrück-Centre for Molecular Medicine, Berlin*

09.30 – 09.55 **Angelos Constantinou** *Institute of Human Genetics, CNRS UPR 1142, University of Montpellier "*Dihydropyrimidinase protects cancer cells from replication interference induced by pyrimidine metabolites"

09.55 – 10.20 **Helmut Pospiech** *Leibniz Institute on Aging-Fritz Lipmann Institute, Jena,* **"**Heterozygous Germline Mutations in ABRAXAS causes BRCA1 Mislocation and DNA Damage response defects"

10.20 – 10.45 **Pierre-Olivier Frappart** *University Medical Centre Ulm,* „Modelling and Targeting ATM-deficient Pancreatic Ductal Adenocarcinoma (PDAC)"

10.45 – 11.15 Coffee break

11.15 – 11.40 **Jean Soulier,** *Hôpital Saint-Louis, Paris, "*Genetic instability, stem cell defect and leukemia in Fanconi anemia patients."

11.40 – 12.05 **Jochen Kuper** *University of Würzburg,* „Targeting XPD for cancer therapy: A HTP screening campaign reveals potential leads"

12.05 – 12.30 **Kanstantsin Siniuk** *Leibniz Institute on Aging – Fritz Lipmann Institute (FLI), Jena*, „Poly(ADP-ribose) regulation of Chk1 as a potential target for cancer therapy"

12.30 – 12.55 **Jörg Fahrer** *University Medical Center Mainz,* „PARP-1 fuels inflammatory bowel disease and promotes colorectal tumor growth"

12.55 – 13.10 *Lunch / Cologne Tour*

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