

2nd International Symposium Cell Division and Genome Dynamics
IBFG, Salamanca (Spain), October 27th-28th, 2022

Thursday, October 27th 2022

08:15 – 09:00 *Registration*
09:00 – 09:20 *Welcome and Opening Presentation*

Session I: DNA Repair and Recombination.

Chair: Cristina Martín-Castellanos (IBFG, Salamanca, Spain)

09:20 – 09:50 **Valérie Borde.** *Institut Curie, France.*
Molecular Determinants of Recombination-Associated DNA-synthesis during DSB repair

09:50 – 10:20 **Matt Neale.** *University of Sussex, UK.*
Spatial Regulation of Meiotic Recombination

10:20 – 10:50 **Angela Taddei.** *Institut Curie, France.*
In vivo dynamics of Rad51 filaments reveals a robust strategy of homology search

10:50 – 11:05 **Andrés Clemente-Blanco.** *IBFG, Salamanca, Spain.*
Cdc14 phosphatase inhibits resection to facilitate recombinational DNA repair

11:05 – 11:20 **Félix Prado.** *CABIMER, Sevilla, Spain.*
Parental histone distribution and location of the replicative block at nascent strands control homologous recombination

11:20 – 12:00 *Coffee Break*

Session II: Meiotic Chromosome Dynamics.

Chair: Mariola Chacón (CABIMER, Sevilla, Spain)

12:00 – 12:30 **Abby Dernburg.** *University of California, Berkeley, USA.*
Counting to one: Regulation of meiotic recombination

12:30 – 12:45 **Alfonso Fernández-Álvarez.** *IBFG, Salamanca, Spain.*
Fine-tuning control of long-distance heterochromatic regions: impact of centromere positioning on telomere silencing

12:45 – 13:00 **Andros Maldonado.** *Universidad Autónoma de Barcelona, Spain.*
TRIP13 prevents precocious desynapsis during meiotic prophase

13:00 – 13:15 **Esther Herruzo.** *IBFG, Salamanca, Spain.*
Regulation of the nucleocytoplasmic transport of Pch2^{TRIP13} during meiosis

13:15 – 13:30 **Nadia Fernández-Jimenez.** *Universidad Complutense de Madrid, Spain.*
The connection between structural nucleoporins and meiosis: a way to discover chromosome dynamics.

13:30 – 14:30 *Informal Lunch (all participants)*

14:30 – 16:45 **Poster Session**

Session III: Control of Cell Cycle and Division

Chair: Sergio Moreno (IBFG, Salamanca, Spain)

16:45 – 17:15 **Soni Lacefield. *University of Indiana, USA.***
Temporal Regulation of Protein Degradation for Irreversible Meiotic Exit

17:15 – 17:30 **Alberto Sanchez-Díaz. *IBBTEC, Cantabria, Spain.***
Interplay between TOR Complex 1 (TORC1) and Mitotic Exit Protein kinase Cdc15 controls cell separation in budding yeast

17:30 – 17:45 **David Vaquero. *IBV, Valencia, Spain.***
A functional link between Separase and Sak1 in mitosis

Friday, October 28th 2022

Session IV: Transcription, Replication and DNA Damage Response.

Chair: María Gómez (CBM-Severo Ochoa, Madrid, Spain)

09:00 – 09:30 **Karim Labib. *University of Dundee, UK.***
How and why to destroy the replisome during mitosis

09:30 – 10:00 **Boris Pfander. *Max Planck Institute of Biochemistry, Germany.***
Unscheduled DNA replication in G1 causes genome instability and damage signatures indicative of replication collisions

10:00 – 10:15 **Rodrigo Bermejo. *CIB-Margarita Salas, Madrid, Spain.***
Functional architecture of replication fork protection factors

10:15 – 10:30 **Francisco Antequera. *IBFG, Salamanca, Spain.***
Nucleosomal asymmetry regulates transcription directionality

10:30 – 10:45 **Guillermo Rodríguez-Real. *Universidad de Sevilla, Spain.***
Unraveling the connection between centrosomes and the DNA damage response

10:45 – 11:00 *Group Photo*

11:00 – 11:45 *Coffee Break*

Session V: Genome Instability and Disease.

Chair: Alberto M. Pendás (IBMCC, Salamanca, Spain)

- 11:45 – 12:15 **Neil Hunter.** *University of California, Davis, USA.*
Chromosome Segregation in Mammalian Oocytes is Optimized During Sexual Maturation
- 12:15 – 12:30 **Sofía Muñoz.** *IBMCC, Salamanca, Spain*
Functional crosstalk between the cohesin loader and chromatin remodelers
- 12:30 – 12:45 **Andrés Lopez-Contreras.** *CABIMER, Sevilla, Spain.*
PICH is a potential therapeutic target for Burkitt Lymphoma.
- 12:45 – 13:15 **Óscar Fernández-Capetillo.** *CNIO, Madrid, Spain.*
Overcoming multidrug resistance in cancer with dirty drugs
- 13:15 – 13:25 *Concluding remarks and poster awards*
- 14:15 *Lunch (invited speakers)*



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