

14th International Conference on Drosophila Heterochromatin

Spoletto - Italy

9 -15 june 2019



ABSTRACTS

June 9

18:00 - 20:30 **Registration at San Nicolò Monumental Complex and Welcome cocktail**

8:30 *Free dinner (not included in the package)*

June 10

9:00 - 10:00 **Registration, welcome and opening of the meeting**

10:00 - 10:30 Gunter Reuter The *Su(var)* gene complement and novel chromatin functions in *Drosophila*

10:40 - 11:10 Gary Karpen Regulation of heterochromatin domain formation and function by phase separation and liquidity

11:20 - 11:40 *coffee break*

11:40 - 12:10 Benjamin Loppin The Lid/KDM5 histone demethylase complex activate a critical effector of the oocyte-to-zygote transition

12:20 - 12:50 Helen Salz H3K9me3-mediated gene silencing and female fate maintenance in *Drosophila* germ cells

13:00 - 14:45 *lunch*

14:45 - 15:15	Patrick O'Farrell	Rapid embryonic cell cycles defer the establishment of heterochromatin by Eggless/SetDB1 in <i>Drosophila</i>
15:25 - 15:55	Fides Zenk	Propagation of H3K27me3 and its role in epigenetic gene regulation during early embryonic development
16:05 - 16:35	Svetlana Petruk	Structure of nascent heterochromatin is essential for differentiation of normal and diseased cells_
18:00		<i>Visit to the city of Spoleto</i> <i>Free dinner</i>

June 11

9:30 - 10:00	Dmitry Fyodorov	The protasome is a basic repetitive unit of <i>Drosophila</i> sperm chromatin
10:10 - 10:40	Pamela Geyer	Shaping of nuclear structure during mitosis impacts stem cell survival.
10:50 - 11:10		<i>coffee break</i>
11:10 - 11:40	Rini Kasinathan	Genetic innovation and gene essentiality within the ZAD-Zinc Finger family of transcription factors in <i>Drosophila melanogaster</i>
11:50 - 12:20	Alexander Mazo	The role of transcriptional machinery in epigenetic bookmarking during DNA replication
12:30 - 14:00		<i>lunch</i>
14:00 - 14:30	Keith Maggert	Thoughts on the origin of somaclonal variation

- 14:40 – 15:10 Bill Sullivan ESCRT-III mediated membrane fusion drives late-segregating chromosome fragments through nuclear envelope channels
- 15:20 – 15:50 Kent Golic Ring chromosome breakage, lethality and rescue
- 16:00 *Visit to Norcia to admire the "Fiorita" the flowering of Castelluccio*

June 12

- 9:30 – 10:00 Barbara Mellone Centromere sequencing, organization and dynamics in *Drosophila*
- 10:10 - 10:40 Amanda Larracuenta Centromere evolution in *Drosophila*: conserved retroelements among dynamic repeats
- 10:50 – 11:20 Doris Bachtrog Dynamic turnover of centromeres drives karyotype evolution in *Drosophila*
- 11:30 – 12:00 Tatyana Kolesnikova The organization of replication in *Drosophila* polytene chromosomes
- 12:30 - 14:00 *lunch*
- 14:15 *Departure to visit Orvieto and visit and dinner in Civita di Bagnoregio*

June 13

- 10:00 - 10:30 Karen Miga Human centromeric regions: a view from the edge of our reference genome

10:40 – 11:10	Gera Pavlova	The role of <i>Drosophila</i> NSL complex in centromere/kinetochore assembly
11:20-11:40		<i>coffee break</i>
11:40-12:10	Peter Andersen	A heterochromatin-specific RNA export pathway facilitates piRNA production diversification
12:20 – 12:50	Ferenc Jankovics	Analysis of a novel chromatin regulator involved in piRNA-mediated transposon silencing
13:00-15:00		<i>lunch</i>
15:00 - 15:30	Yang Yu	A Pandas complex adapted for piRNA-guided transposon silencing and heterochromatin formation
15:40 – 16:10	Victoria Meller	Identification of X chromatin involves siRNA-directed H3K9me2 enrichment
16:20-16:50	Fabian Feiguin	Endogenous TDP-43 prevents retrotransposons activation through Dicer-2 activity and the RNA silencing machinery in <i>Drosophila</i> neurons
17:00- 17:20		<i>coffee break</i>
17:20 – 17:50	Maria Pia Bozzetti	Toward a detailed molecular characterization of the <i>crystal</i> region on the Y chromosome
18:00 – 18:30	Raphaelle Dubruille	Impact of <i>Rsp</i> satellite DNA on spermiogenesis progression in the <i>Segregation distorter</i> system
18:40		<i>free time and free dinner (not included in the package)</i>

June 14

9:30 – 10:00	Laura Ciapponi	Interactions between <i>pendolino</i> and histone modifier genes reveal an epigenetic regulation of <i>Drosophila</i> telomere stability
10:10 – 10:40	Mia Levine	Diversification and collapse of a telomere elongation mechanism
10:50 - 11:10		<i>coffee break</i>
11:10 - 11:55	Aida de la Cruz	Orthologous Cid replacements in <i>D. melanogaster</i> suggest divergent evolution
12:05 - 12:35	Gianni Cenci	NBS interacts with HP1 to ensure genome integrity
13:00		<i>lunch</i>
Free After noon		
19:30		<i>Departure by bus to Castello di Poreta for Farewell Banquet</i>