

Twelfth International Conference on *Drosophila* Heterochromatin

May 24 -30, 2015

Palermo, Italy

PROGRAM

May 24

6:00 PM *Registration and “Welcome cocktail” at the meeting place “Palazzo Steri” (University of Palermo)*

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

May 25

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

Chair: Davide Corona

10:00 - 10:30 Kent Golic Dicentric chromosome breakage and repair

10:40 - 11:10 Travis Karg Mechanisms of acentric chromosome segregation

11:20 - 11:40 *coffee break*

11:40 - 12:10 Brandt Warecki Aurora B mediated localized delays in nuclear envelope formation facilitates inclusion of late segregating chromosome fragments

12:20 - 12:50 Ting Wu Single-molecule super-resolution in situ imaging of chromosomal DNA in *Drosophila* with a sidebar on haplotype visualization

13:00 - 14:45 *lunch*

Chair: Kent Golic

14:45 - 15:15	<u>Irene Chiolo</u>	Right place, right time: novel role of nuclear periphery in heterochromatin repair
15:25 - 15:55	<u>Pamela Geyer</u>	Non-canonical activation of the DNA damage pathway reduces germline stem cell survival in <i>Drosophila</i>
16:05 - 16:35	<u>William Sullivan</u>	Why is heterochromatin so closely associated with the centromere?
16:45 - 17:00		<i>coffee break</i>
17:00 - 19:30		<i>Guided tour of Palermo</i>
19:45		<i>Dinner on "caiccho" a typical sicilian boat</i>

May 26

Chair: Gary Karpen

9:30 - 10:00	<u>Abby Dernburg</u>	H3K9 methylation shapes the meiotic recombination landscape in <i>C. elegans</i>
10:10 - 10:40	<u>Gunter Reuter</u>	Chromatin organization at synaptonemal complexes and crossover control in <i>Drosophila</i>
10:50 - 11:10		<i>coffee break</i>
11:10 - 11:40	<u>Eduardo Gorab</u>	Further data on the occurrence of triple-helical DNA in <i>Drosophila</i> Heterochromatin
11:50 - 12:20	<u>Keith Maggert</u>	Probing heterochromatin stability - sequence and function
12:30 - 14:30		<i>lunch</i>

Chair: Maurizio Gatti

14:30 - 15:00	<u>Tatiana Kolesnikova</u>	Chromatin states and replication patterns in polytene chromosomes of <i>Drosophila melanogaster</i>
15:10 – 15:40	<u>Patrizio Dimitri</u>	The BCNT proteins: a long-neglected class of multifaceted proteins
15:50 – 16:20	<u>Davide Corona</u>	<i>trans-activation</i> : a new epigenetic phenomenon underlying transcriptional memory
16:30 – 16:50		<i>coffee break</i>
16:50 – 19:30		Poster session
19:30		<i>free time and free dinner(not included in the package)</i>

May 27

Chairman: Gunter Reuter

9:00 – 9:30	<u>François Karch</u>	Structure/Function dissection of the Fab-7 boundary within the context of the bithorax complex
9:40- 10:10	<u>Luca Lo Piccolo</u>	Modulation of ω -speckle structure by ISWI chromatin remodeler: new insights into neurogenesis of <i>Drosophila melanogaster</i>
10:20 - 10:35		<i>coffee break</i>
10:40 – 11:10	<u>Zheng Zhou</u>	Structural study of an internal dual-chaperone system for SWR1-mediated histone H2A.Z replacement
11:20 - 11:40	<u>Martin Muller</u>	Regulatory architecture of the apterous locus
11:50 - 12:20	<u>Wolfgang Miller</u>	Low-titer symbionts of <i>Drosophila</i> that matter: new lessons from <i>Wolbachia</i>
12:30 –14:00		<i>lunch</i>
14:00		<i>Round Trip by bus to Segesta, Marsala, Torre di Nubia. Dinner in the museum of salt</i>

May 28

Chair: Pamela Geyer

- 10:00 - 10:30 James Birchler Dosage compensation in *Drosophila*: shifting chromatin states to achieve effective genomic balance
- 10:40 – 11:10 Victoria Meller Identification of X chromatin by long and short noncoding RNA
- 11:20-11:40 *coffee break*
- 11:40-12:10 Jan Larsson Repeated elements, heterochromatin and chromosome-specific targeting in *Drosophila*
- 12:20 – 12:50 Maria Kim *roX2* RNA decorates Y-chromosome loops in *Drosophila* spermatocytes
- 13:00-15:00 *lunch*

Chair: Maria Pia Bozzetti

- 15:00 - 15:30 Gary Karpen Can phase separation principles account for the formation and function of the heterochromatin domain?
- 15:40 – 16:10 Bernardo Carvalho PacBio sequencing to resolve difficult genomic regions: The *Mst77Y* genes on the *Drosophila melanogaster* Y chromosome
- 16:20-16:50 Marie Fablet A population look at the piRNA pathway in *Drosophila*
- 17:00- 17:20 *coffee break*
- 17:20 – 17:50 Yikang Rong MTV, a telomeric ssDNA-binding complex, protects *Drosophila* telomeres and recruits retrotransposons to chromosome ends
- 18:00 – 18:30 Maurizio Gatti *pendolino (peo)* a gene required for protection of *Drosophila* heterochromatic telomeres
- 18:40 *free time and free dinner (not included in the package)*

May 29

Chair: Ting Wu

9:30 – 10:00	<u>Alexei Aravin</u>	The interplay between chromatin and piRNA
10:10 – 10:40	<u>Katalin Fejes Tóth</u>	Small RNAs guide establishment of repressive chromatin marks on transposons in the <i>Drosophila</i> germline
10:50 - 11:10		<i>coffee break</i>
11:10- 11:40	<u>Haifan Lin</u>	Uniting major constituents of the genome: the role of piRNAs in the germline
11:50- 12:20	<u>Maria Pia Bozzetti</u>	Searching for members of the piRNA-mediated transposon silencing in the gonads looking at the modifiers of the <i>crystal-Stellate</i> regulation
12:30- 13:00	<u>Gustavo Kuhn</u>	<i>Drosophila DINE-TR1</i> is abundant in heterochromatin, participates in piRNA biogenesis and is a recurrent source for satellite DNA emergence
13:10- 15:00		<i>lunch</i>
Chair: Ting Wu		
15:10 – 15:40	<u>Amanda Larracuente</u>	Intragenomic conflict and satellite DNA evolution in <i>Drosophila</i>
15:50 – 16:20	<u>Sergio Pimpinelli</u>	Transposons jumping into the Canalization and Assimilation concepts
19:30		<i>Departure by bus to Mondello: Sunset and Farewell Banquet</i>

May 30

9:30 – 10:30	<i>Closure of the conference</i>
10:30	<i>coffee break</i>