

Oral presentation

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Small RNA-mediated control of retrotransposons in *Drosophila*

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In the *Drosophila* ovary, the *I-element* (a NLR retrotransposon) and *gypsy* are both controlled by piRNAs (small RNAs associated with Piwi-like proteins); but there are important variations on this common theme, according to the cell lineage where it operates: the germline (for the *I-element*) versus the ovarian somatic cells (for *gypsy*). We are taking advantage of these differences to study the piRNA biogenesis, the epigenetic effects of the maternal transmission of piRNAs and the mechanism of piRNA-mediated regulation.