Invited lecture:

Living at different latitudes: the role of *Drosophila* I-LNv in adjusting to extremely long photoperiods

By : Dr. Pamela Menegazzi

(University of Würzburg, Würzburg, Germany)

Date: 13. 8. 2015

Hour: 1:00 p.m.

Room: Institute of Parasitology, Boardroom

Lecture is organised in frame of MODBIOLIN project (FP7, GA 316304).

You're welcome!

The genus *Drosophila* contains over 2000 species that populate very different environments, from the equator to subpolar regions. Species which have adapted to different latitudes seem to have evolved different behaviors to survive in their habitats. Interestingly, the anatomical architecture of the master clock of higher latitude *Drosophila* species presents only minor differences compared to that of lower latitude species, such as *melanogaster*: the small LNv (s-LNv) show a strongly reduced PDF expression while the large LNv do not express CRY. We wondered whether differential CRY and PDF expression in the LNv of higher latitudes species could be responsible for their ability to adjust to very long days.

