

# Seminar

## Genetics and evolution of insect sex determination mechanisms

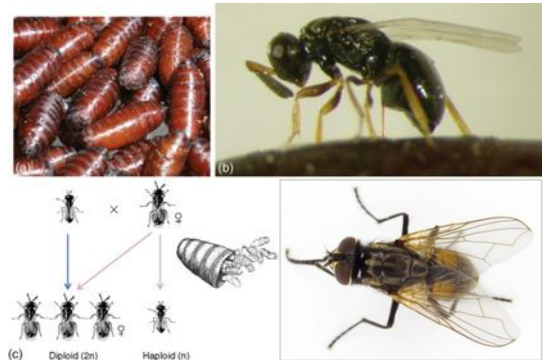
**Speaker: Leo W. Beukeboom**

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Insects are known for their extraordinary diversity in reproductive systems. Study of reproductive modes provides fundamental knowledge about the genetic regulation of reproduction and insights into how various systems have evolved. Such fundamental knowledge is also important for applied purposes, like insect pest control and insect mass production. I will focus on mechanisms of sex determination, how these affect insect life history traits and how this knowledge can be applied.

Although natural selection acts to equalise proportions of females and males (sex ratios) in most species, in commercial insect populations the two sexes often do not have equal value and overproduction of one sex is desirable. I will report on our experiments aimed at altering population sex ratios in parasitic wasps used for biological control and in houseflies used for feed production.



**Wednesday 27<sup>th</sup> November 2024, 9.45-10.45**

DISTAL – Bologna, Room 7 or on Teams (the speaker will be online)

Teams link: [https://teams.microsoft.com/l/meetup-](https://teams.microsoft.com/l/meetup-join/19:meeting_YzlyNGJIYmUtNmU5My00NzNhLThiY2UtZjFhY2VkMTk5NDU4@thread.v2/0?context=%7B%22Tid%22:%22e99647dc-1b08-454a-bf8c-699181b389ab%22,%22Oid%22:%22c43d29e5-fc1b-4796-b43b-26a8c171a63e%22%7D)

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