

INNOVATIVE STRATEGIES FOR THE SUSTAINABLE MANAGEMENT OF INSECT PESTS IN AGRO-FOOD INDUSTRIES AND LIVESTOCK FARMS

Emergence of MD in absence/presence of parasitoids

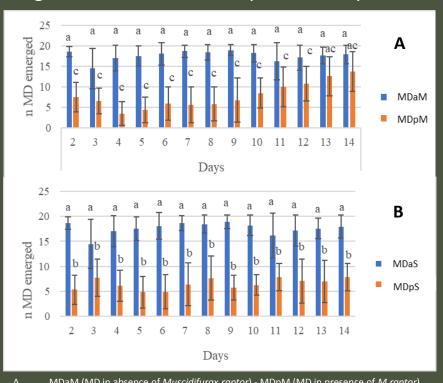
Aims of Phd research

- Parasitization efficiency in relation to the female age for the pupal parasitoids of housefly, Musca domestica (MD)
- Field monitoring of MD and related natural antagonists in dairy farms
- Competition between MD and black soldier fly Hermetia illucens, (HI) larvae

Biological control

Musca domestica

Pupal parasitoids



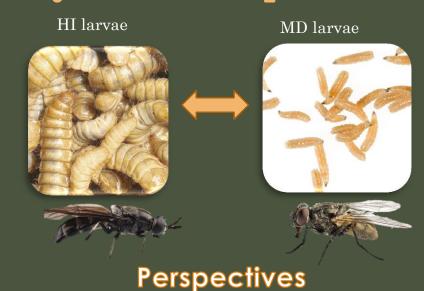
A. MDaM (MD in absence of Muscidifurax raptor) - MDpM (MD in presence of M.raptor)
 B. MDaS (MD in absence of Spalangia cameroni) - MdpS (MD in presence of S.cameroni)



Female of S. cameroni



Fly larvae competition?



- Further studies to optimize the mass production of the two species of parasitoids,
- and the timing and methods of delivery in the stables in order to implement the biocontrol of houseflies
- Verify combination of HI larvae and parasitoids to reduce MD populations in livestocks

PhD student: Sara D'Arco Tutor: Prof. Lara Maistrello