





New parasitoids of Tuta absoluta

marco mosti

ABIM Luzern 2010

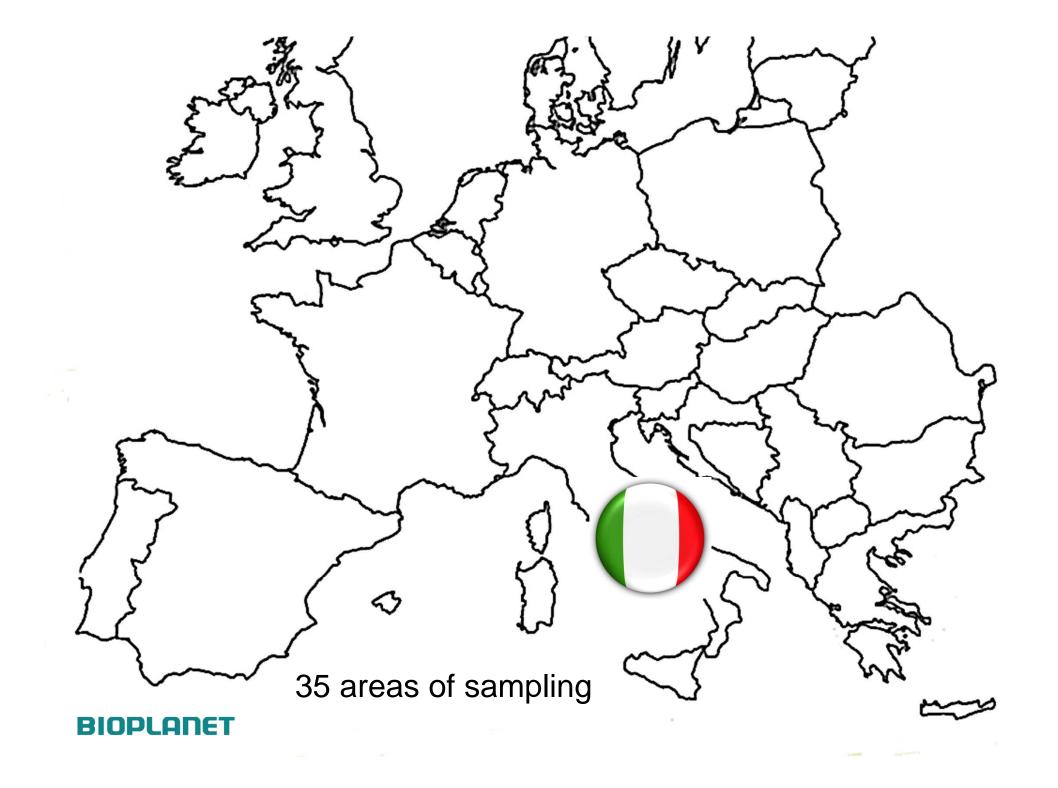


- located in cesena (north italy)
- production of macrobials since 1986
- 12 species produced today
- products distributed in 20 countries



 find indigenous parasitoids able to switch from usual host to Tuta absoluta and evaluate their potential as new biocontrol agents.









XX specimen found



Diadegma ledicola









Necremnus





Necremnus tidius

Necremnus artynes









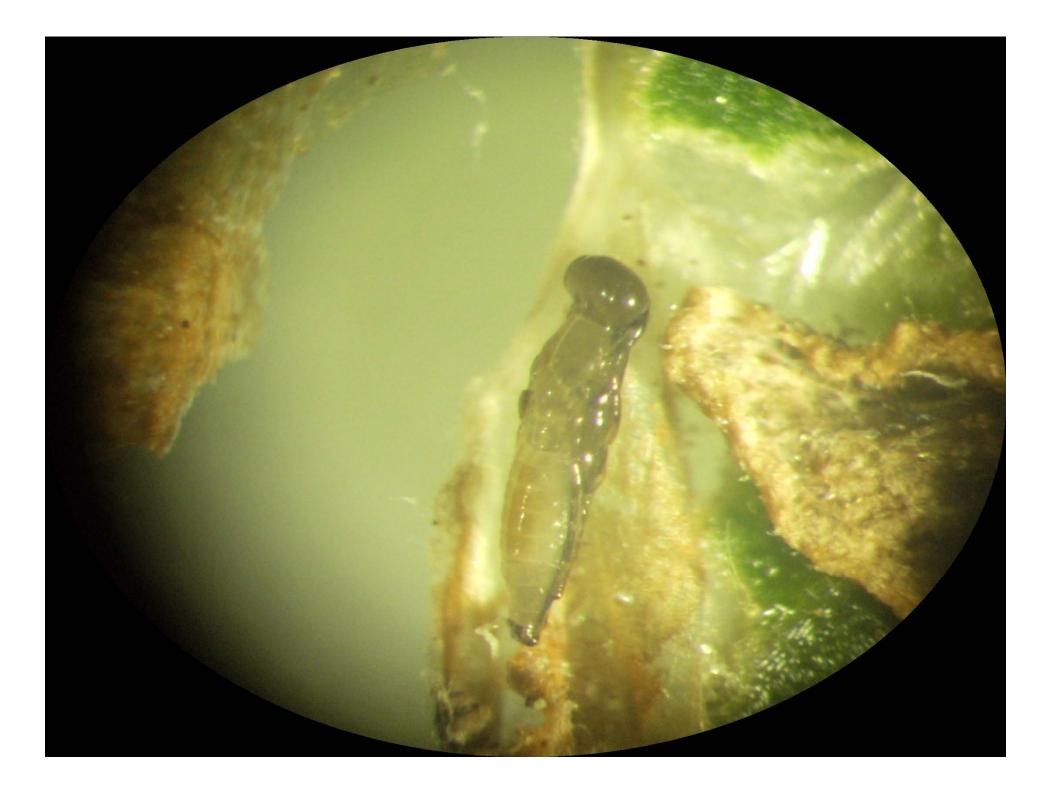










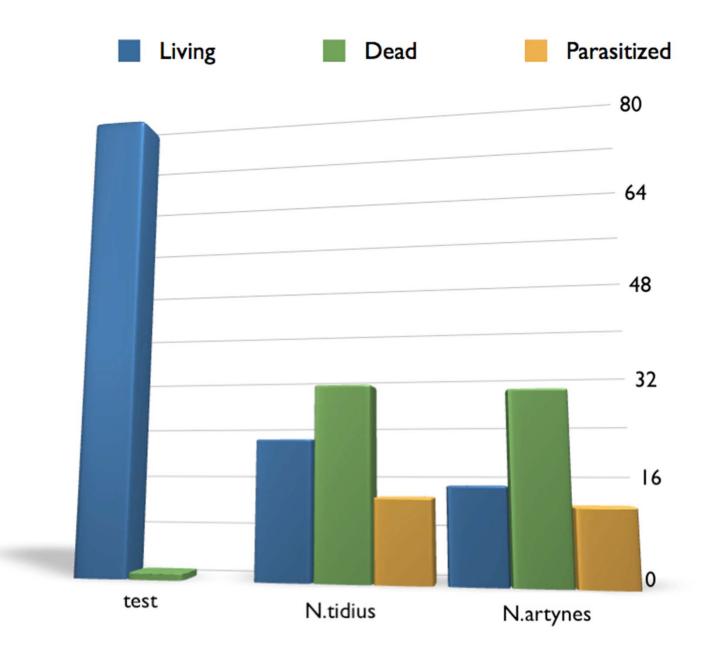




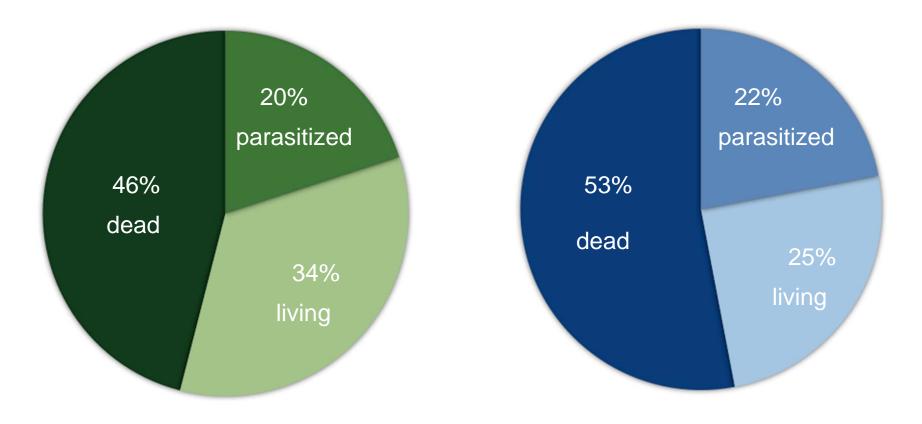
Test

D1- Oviposition of 5 Tuta absoluta per plant for 7 days.
D14- Introduced 5 parasitoids per plant
D24- Leaves collected

Thesis: 1. Test 2. Necremnus tidius 3. Necremnus artynes







N.tidius

N.artynes



- Etology studies continue with Torino University;
- **Diadegma ledicola**: interesting and pending for a more appropriate tecnique of mass rearing;
- *N.tidius* and *N.artynes*: both very interesting and quickly available for biocontrol programs;
- **Necremnus artynes:** frequently found in mediterranean area, best candidate for first commercial application;
- Scale up phase;
- Commercially available beginning 2011.

