

Form (ENG):	AGR/11 – Entomology		Year: 2016
Representative:	Carlo Duso	Full professor	<a href="mailto:carlo.duso@unipd.it">carlo.duso@unipd.it</a>
	Giuseppina Pellizzari	Full professor	<a href="mailto:giuseppina.pellizzari@unipd.it">giuseppina.pellizzari@unipd.it</a>
	Andrea Battisti	Full professor	<a href="mailto:andrea.battisti@unipd.it">andrea.battisti@unipd.it</a>
	Massimo Faccoli	Associate professor	<a href="mailto:massimo.faccoli@unipd.it">massimo.faccoli@unipd.it</a>
Components:	Nicola Mori	Researcher	<a href="mailto:nicola.mori@unipd.it">nicola.mori@unipd.it</a>
	Luca Mazzon	Researcher	<a href="mailto:lmazzon@unipd.it">lmazzon@unipd.it</a>
	Lorenzo Marini	Researcher	<a href="mailto:lorenzo.marini@unipd.it">lorenzo.marini@unipd.it</a>
	Edoardo Petrucco-Toffolo	Researcher	<a href="mailto:edoardo.petruccotoffolo@unipd.it">edoardo.petruccotoffolo@unipd.it</a>
	Alberto Pozzebon	Researcher	<a href="mailto:alberto.pozzebon@unipd.it">alberto.pozzebon@unipd.it</a>

#### N. Research: main topics and strategic initiatives

#### Notes

- 01 Development of effective, innovative and ecologically-based approaches for pest control in agriculture, forest, and ornamental plants, including their products
- 02 Phytoplasma and viruses epidemics, control strategies of their vectors
- 03 Ecotoxicology of pesticides: impact on beneficials and evolution of pesticide resistance
- 04 Insect ecology: host plant relationships, climate change and biological invasions
- 05 Systematics, biology, biogeography of Hemiptera Coccoomorpha, Lepidoptera Notodontidae Thaumetopoeinae, Coleoptera Curculionidae Scolytinae
- 06 Bacterial symbiosis in fruit flies (Diptera, Tephritidae) and other insects; microbiota and parasymbiotic relationships
- 07 Molecular ecology, phylogeny and population genetics of insects of economic value
- 08 Ecosystem services associated with insects in relation to the landscape and trophic networks

**Laboratory:** Agricultural Entomology, Forest Entomology, Biotechnology

**Species:** Thysanoptera; Hemiptera Pentatomidae, Cicadellidae, Cixiidae e Coccoomorpha; Diptera Drosophilidae e Tephritidae; Lepidoptera Tortricidae; Coleoptera Curculionidae; Acari Tetranychidae e Phytoseiidae

**Technologies/Metodologies:** Laboratory bioassays; Field experiments; Manipulative experiments; Bio-molecular analyses; Biochemical assays; Biostatistics; SEM; Spectrophotometer; Microscopes; Rearing cells; PCR; LAMP.

---

**Main ERC fields and subfields:** LS8 Evolutionary, Population and Environmental Biology: Evolution, ecology, animal behaviour, population biology, biodiversity, biogeography, marine biology, ecotoxicology, microbial ecology; LS8\_1 Ecology (theoretical and experimental; population, species and community level); LS8\_2 Population biology, population dynamics, population genetics; LS8\_3 Systemsevolution, biological adaptation, phylogenetics, systematics, comparative biology; LS8\_4 Biodiversity, conservation biology, conservation genetics, invasion biology; LS8\_5 Evolutionary biology: evolutionary ecology and genetics, co-evolution; LS8\_6 Biogeography, macro-ecology; LS8\_9 Environmental toxicology at the population and ecosystems level; LS8\_11 Species interactions (e.g. food-webs, symbiosis, parasitism, mutualism); LS9 Applied Life Sciences and Non-Medical Biotechnology: Applied plant and animal sciences; food sciences; forestry; industrial, environmental and non-medical biotechnologies, bioengineering; synthetic and chemical biology; biomimetics; bioremediation; LS9\_4 Plant sciences (including crop production, plant breeding, agroecology, soil biology); LS9\_6 Forestry and biomass production (including biofuels).

---

**Notes:** Keywords: Integrated Pest Management, Biological control, Invasive alien species, Phytoplasmas,