

Originality

► The originality of this Training Course is its international impact. It builds on the experience and teaching resources of the European Research Group ENDURE in the area. It aims at bringing together researchers from leading research organizations and colleagues, as well as PhD students from Southern and European countries. The training sessions and workshops will be conducted in English.

► The scientific event will take place in Italy, in a well-equipped conference center (Scuola Internazionale di Alta Formazione, under the umbrella of Sant'Anna School of Advanced Studies, Pisa, as local organiser).

Objectives

► To better know and understand the concepts of ACP, methods and tools for their implementation and jointly exchange the principles of ACP.

► To engage participants in a collective dynamic of ACP and develop collaborations as well as research projects, with concrete deliverables, videos, articles, and training resources.



Corresponding organizers

- **CIRAD** : Jean-Philippe DEGUINE
François-Régis GOEBEL
Alain RATNADASS
- **INRA** : Jean-Noël AUBERTOT
- **Institute of Life Sciences** : Camilla MOONEN

Public

- Advanced-level graduate students,
- Junior faculties,
- Senior researchers willing to improve their skills with regards to ACP,
- Agricultural advisors (engineering degree minimum).

- A maximum of 30 participants can be accommodated. Applications will be selected by a scientific committee.
- **To apply, please send a CV and a motivation letter to:** camilla.moonen@santannapisa.it
- Applications should be received before **31 October, 2017**.

A confirmation message will be sent to you in case your participation is accepted.

Registration Fees

- 800 € for participants from Southern countries
- 1 500 € for participants from European and others countries

This amount covers the following costs: registration, food & accommodation, field trips & sightseeing tours, and round trip from Pisa or Firenze airport.

Lecturers

- **Jean-Noël AUBERTOT**. INRA, Toulouse, France
- **Paolo BARBERI**. Institute of Life Sciences, Italy
- **Nick BIRCH**. The James Hutton Institute, Dundee, Scotland
- **Jean-Philippe DEGUINE**. CIRAD, La Réunion, France
- **François-Régis GOEBEL**. CIRAD, Montpellier, France
- **Jay-Ram LAMICHHANE**. INRA, Toulouse, France
- **Camilla MOONEN**. Institute of Life Sciences, Italy
- **Alain RATNADASS**. CIRAD, La Réunion, France
- **Kris WYCKHUYS**. CIAT, Hanoi, Vietnam



Training Course on Agroecological Crop Protection (ACP)

February 11-16, 2018 – Volterra, Italy

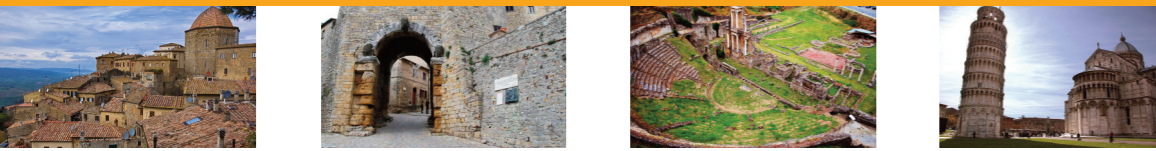


Context

The principles, approaches, axes, pillars and implementation strategies of Agroecological Crop Protection (ACP) at the field and landscape levels are not the same as those known to date. Therefore, ACP represents a new field of research and applications yet to be thoroughly studied and disseminated. In line with current objectives assigned to crop protection, ACP creates a breakthrough in cropping system design and in the management of interstitial spaces, switching from agrochemistry to agroecology. ACP is the underlying framework of this Training Course: review of the principles of ACP, critical analysis of the evolution of Crop Protection, and results of participatory experiments under various production systems. Particular attention will be paid to the role of modelling approaches in designing agroecological cropping systems based on ACP, as well as on activities in this new context, with specific reference to researchers (e.g. new knowledge to be acquired, multicriteria evaluation, inter-disciplinarity). Finally, this Training Course will propose practical recommendations to help implement the agroecological transition, for temperate as well as tropical agroecosystems.

Conception: Cirad, Martine Dupontail, June 2017 – © photos CIRAD et J.-N. Aubertot, INRA





Training Course on Agroecological Crop Protection

TC-ACP 18' Provisional program

Day 1. Introduction and ACP principles

- ▶ **Introduction:** TC-ACP18' objectives, presentation and planning.
- ▶ **Conference 1:** From Integrated Pest Management to Agroecological Crop Protection + 2 Workshops.
- ▶ **Objectives:** Building a common vision on ACP history, concepts and principles; co-defining the deliverables of the training course.

Day 2. Modelling for ACP

- ▶ **Conference 2:** State of the art.
- ▶ **Conference 3:** Methods and techniques in modelling + 2 Workshops.
- ▶ **Objectives:** Understanding the fields of application of modelling for ACP; determining modelling projects based on participants' research interest.

Day 3. Experiences and case studies - agroecological and touristic break

- ▶ **Discussion:** Around experiences in producers, case studies + 2 Workshops.
- ▶ **Objectives:** Comparing ACP principles to field reality; evaluating the level of complexity of the modelling projects chosen on Day 2.
- ▶ **Afternoon:** Visit of a Tuscan farm and tour of Volterra, a lovely Etruscan city.

Day 4. Development of research in ACP

- ▶ **Conference 4:** Study Models (pests, cropping systems) and new research avenues + 3 Workshops.
- ▶ **Objectives:** Through rotating workshops, discussing and defining new research actions around specific cases and their convergence in the North/South, combining different approaches in Agroecological Crop Protection.

Day 5. TC-ACP18' wrap-up and follow-up

- ▶ **Conference 5:** Restitution of modelling projects.
- ▶ **Conference 6:** Keys to the agroecological transition.
- ▶ **Conference 7:** Perspectives and outputs, conclusion and evaluation of the training course.
- ▶ **Objectives:** Presenting and discussing modelling projects generated from the workshops; cross-pollination of activities to implement in the context of Agroecological Crop Protection; formulating take home messages.

