

## Roberto Romani – Short CV

Senior researcher (faculty member, research and teaching tasks), Department of Agricultural and Environmental Sciences, University of Perugia.

### STUDIES

- 1999: PhD in Agricultural Entomology. Thesis: “Antennal glands in males of Hymenoptera Apocrita: structure, function and diversity”.
- 1993: Master in Agriculture. Thesis: “Field trials with *Podisus* spp., american predatory bugs of the Colorado Potato Beetle (*Leptinotarsa decemlineata* Say)”.

### SCIENTIFIC ACTIVITY IN ITALY AND ABROAD

- 2005: ESF fellowship within the BEPAR program (Behavioural Ecology of Parasitoids) from 18 to 30 July 2005 at the Wageningen University to develop a project on “Host discrimination in *Leptopilina heterotoma*: a combined behavioural and sensory physiological study”.
- 2005-today: Faculty member, University of Perugia.
- 2000-2004: Temporary researcher position; research project: “Functional anatomy of antennal sensilla and glands and their role in sex and host recognition in Hymenoptera Terebrantia and Aculeata”.
- 1999-2000: Temporary employment at the Electron Microscopy Centre, Perugia University.
- 1998-1999: Temporary research employment at the Department of Arboriculture and Plant Protection – Entomology, within several research projects.
- 1997: Visiting Scientist (6 months) at the Entomology Research Laboratory, Department of Entomology, Texas A&M University, Texas (USA), under the supervision of Prof. S. Bradleigh Vinson.
- 1995-1999: PhD Student, 3-year fellowship, Institute of Agricultural Entomology, University of Perugia.

### COMMITTEES, APPOINTMENTS, SCIENTIFIC SOCIETIES

- Representative of Researchers in the Faculty Board, University of Perugia;
- member of the board of professors of the PhD course on “Arboriculture and Plant Protection”;

### REFEREE

- Reviewer for international journals with “impact factor”: *BioControl* (Kluwer Academic Publishers), *Tissue and Cell* (Elsevier), *Insectes Sociaux* (Birkhäuser Verlag), *Arthropod Structure and Development* (Elsevier), *Journal of Insect Behaviour* (Springer).
- Reviewer for international journals without “impact factor”: *Entomological Science* (Blackwell Publishing), *Insect Science* (Blackwell Publishing).

### ORGANIZATION OF CONGRESSES AND SCIENTIFIC MEETINGS

- Member of the Organizing Committee for the “XX Congresso nazionale Italiano di Entomologia”, Perugia, 13-18 Giugno 2005.

-Scientific member of the Organizing Committee for the “IOBC - Egg Parasitoids, 6th International Symposium, Perugia, 15-18 Sept. 2002”.

#### NATIONAL AND INTERNATIONAL PROJECTS

- 2007: National Scientific Coordinator of the Prin2007 “Mechanisms of host-plant location and host-plant preferences in two leafhoppers (Hemiptera: Auchenorrhyncha), vectors of grapevine yellow diseases”.

- 2007: Responsible scientist of a research grant with Bayer Cropscience.

- 2006-2007: Research responsible for the Vigoni exchange programme between Italy and Germany, funded by CRUI and DAAD, on “Thermo-hygro receptors in the leaf-cutting ants”;

-2001-2003: Research responsible of the CNR Agenzia 2000 Young Researchers programme on “Reproductive strategies of Hymenoptera Parasitoids, Predators and Pollinators, useful for biological control of pests and pollination of crops”;

1999-2005: Member of the scientific teams of 21 national and international research projects: “CNR Coordinato, MURST 60%, MURST 40%, MURST Cofin /PRIN, MURST Progetto di Ateneo, MiPAF, DADD - CRUI Programma VIGONI, FISR”.

#### RESEARCH TOPICS

- Functional anatomy of antennal sensilla in parasitic Hymenoptera;

- Functional anatomy of antennal glands in Hymenoptera Terebrantia and Aculeata;

- Mating behaviour in parasitic Hymenoptera;

- Physiological interactions between hosts and parasitoids (teratocytes);

- Functional anatomy and sensory physiology of the ovipositor in Hymenoptera Terebrantia;

- Adaptation for feeding and oviposition in phytophagous piercing-sucking insects;

- Assessment of insect pest damage on different agricultural crops.

#### PUBLICATIONS

Author and co-author of almost 50 scientific papers, among which about 30 published on ISI journals.

#### INVITED SEMINARS

- 20/03/2007: R. Romani “Morpho-functional aspects of insect communication: the case of Hymenoptera parasitoids”. Seminar for the PhD program on “Biology of the Behaviour”, at the Department of Evolutionary and Functional Biology, Parma University.

#### TEACHING AT THE UNIVERSITY OF PERUGIA

2004-2007:

- Insect Biotechnology (3 credits), 1st level course on "Biotechnology" (2004-2007);
- Landscape Applied Entomology (6 credits), 1st level course on "Landscape Technical Management" (2006-2007);
- Ecological management of arthropod populations (6 credits), 2nd level course on "Crops systems and environment sciences" (2005);
- Entomology (3 credits), 2nd level course on "Food technology and biotechnology" (2003-'05);
- Biological Control (some lessons), 1st level course on "Crop Science" (2001-'02);
- tutor of 3 degree thesis, co-tutor of several thesis;
- member of the board of examiners for the Entomology and Biological Control courses;
- member of the boards for degree examinations (1st and 2nd levels);
- seminars for several courses (1st level, 2nd level, PhD);
- Supervisor of a Phd student.
- tutoring to graduate and undergraduate students;

1990-2001:

- Teaching in several courses
- member of the board of examiners for Entomology courses;
- Tutoring to graduate and undergraduate students.