

CURRICULUM VITAE Michela Farneselli

EDUCATION

2003: Degree in Agricultural Sciences and Technology, at the University of Perugia, with the maximum score (110/110 e lode)

2004: qualification for the professionalist of agronomist

01.11.2004 / 31.10.2007: Phd course on "Productivity and sustainability in Agriculture" at the Department of Agricultural and Environmental Sciences of the University of Perugia.

2008: Phd final dissertation of the thesis "Improving fertigation management in processing tomato"

ACTUAL POSITION

- Researcher at the Department of Agricultural, Food and Environmental Sciences of the University of Perugia.

EXPERIENCES

04/01/2003 – 07/31/2003

Research activity about "Cultivation of lettuce in soilless technique".

Research center: Dept. of Agricultural and Environmental Sciences at the University of Perugia.

01/01/2004 – 10/31/2004

Research activity about "Effects of rotation, nitrogen fertilization and management of crop residues on some chemical, microbiological and biochemical properties of soil"

Research center: Dept. of Agricultural and Environmental Sciences at the University of Perugia.

01/11/2003-30/10/2007

Experimental activity of the PhD thesis carried out:

- Dept. of Agricultural and Environmental Sciences at the University of Perugia;

- Horticultural Sciences Department of the University of Florida, for an internship from 01/06/2005 to 30/04/2006;

Research activity about "Nutrient and irrigation management techniques in vegetables crops"

15/12/2007 - 14/12/2008

Research activity about "Sustainable management of nitrogen fertilization in processing tomato grown in organic and low-input farming systems"

Research center: Dept. of Agricultural and Environmental Sciences at the University of Perugia.

31.12.2008/ now: researcher at the Dept. of Agricultural and Environmental Sciences at the University of Perugia

RESEARCH PROJECT INVOLVEMENT

- MIUR-COFIN 2002 "Effetti di lungo termine della gestione dei residui colturali, dell'avvicendamento e della concimazione azotata sul sequestro della CO₂ atmosferica"
 - PRIS-2. "Azioni di innovazione e ricerca a supporto del piano sementiero". Scientific coordinator: Prof. Mario Falcinelli)
 - FISR "Sistemi e metodi di agricoltura biologica per il miglioramento della qualità delle produzioni vegetali e dell'ambiente", Scientific coordinator: Prof. P. Bàrberi)
 - BIOSYST: "Sostenibilità ambientale e gestione della fertilità in sistemi agricoli biologici e in

sistemi convenzionali a basso input". Scientific coordinator: Prof Francesco Tei)

- MIPAAF-NITBIO "Interventi agronomici atti a ottimizzare la disponibilità di azoto per la produzione ecosostenibile di frumenti di qualità in agricoltura biologica (Scientific coordinator: M. Guiducci);

- PRIN 2008 "Aspetti eco-fisiologici e ambientali di sistemi integrati di concimazione azotata in pomodoro da industria", (Scientific coordinator Prof. Prosdominici Gianquinto);

- FIRB-2011 "Gestione della Rizosfera per una produzione agricola sostenibile: processi e meccanismi coinvolti nella disponibilità dei nutrienti del suolo, loro acquisizione e allocazione nella pianta - RHIZOCROP", (Scientific coordinator: T. Mimmo),

- PRIN 2011 "IC-FAR: Linking Long Term Observatories with Crop Systems Modeling For a better understanding of Climate Change Impact, and Adaptation Strategies for Italian Cropping Systems" (Scientific coordinator: Prof. P.P. Roggero)

- PSR 2007-2013 - Asse1- Mis1.2.4. "Sperimentazione innovativa volta all'ottimizzazione dell'uso agronomico di digestato da impianti di depurazione zootecnica attraverso processi di fitodisidratazione e compostaggio"

- PSR 2007-2013 Asse1- Mis1.2.4. "Gestione integrata dei reflui zootecnici e definizione di una nuova BAT".

ORGANIZER COMMITTEE INVOLVEMENT

- ISHS Symposium: "Toward Ecologically Sound Fertilization Strategies for Field Vegetable Production", Perugia 7-10 Giugno 2004;

- "Programma Vigoni 2010" organized by the Italian-german university and by Deutscher Akademischer Austausch Dienst;

EDUCATIONAL ACTIVITY

Teaching activities (seminars, lessons, student training courses, member of the board of examiners) have been carried out since 2004 at the Dept. of Agricultural and Environmental Sciences of the University of Perugia within the following disciplines: Vegetable production; Crop sciences, Agronomy; Floriculture and turf sciences; Sustainable management of irrigation and fertilization; Agro-System modelling" (Bachelor of Science Honours in "Mediterranean Agro-ecosystems Management" in Malta); "Barley and its cultivation for brewing (Master degree in "Brewing Technologies").

At the moment she is the responsible of the following courses at the University of Perugia: Crops brewing.

ISTITUTIONAL COMMITTEMENTS

- Quality manager of the master course "Sustainable Rural development" at the University of Perugia.

RESEARCH ACTIVITY

At present the main interests are in:

- eco-physiology of herbaceous crops: nutrition and irrigation management in organic systems such as in fertigation and soil less technique in order to understand the efficiency of the soil-plant system and reduce N leaching risks. Particular attention is paid in understanding how the different strategy of nitrogen fertilization on vegetable crops affects the soil-plant system in order to maximize the nitrogen use efficiency and reducing N leaching risks.

- Validation of different methods for monitoring nutrient (especially nitrogen) status of plants during the crop cycle (sap test, SPAD, VIS-NIR spectroscopy, laboratory analysis);

- Effect of rotation and crop residue management on soil fertility and CO₂ sequestration in organic and conventional cropping systems in long term experiments;

- Urban horticulture: agronomic evaluation of alternative cultivation systems of vegetables in cities; diffusion and technical proposals of allotment gardens for senior citizens in Italy