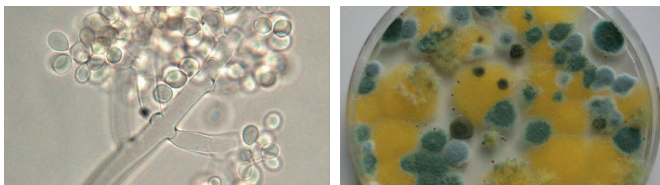


Scientific committee

Paola Bonfante
Valeria Bianciotto
Luisa Lanfranco



PhD School of Biology
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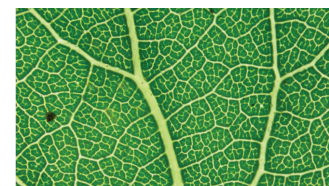
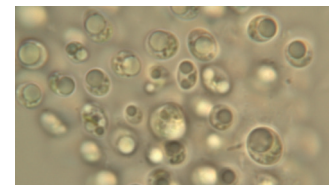
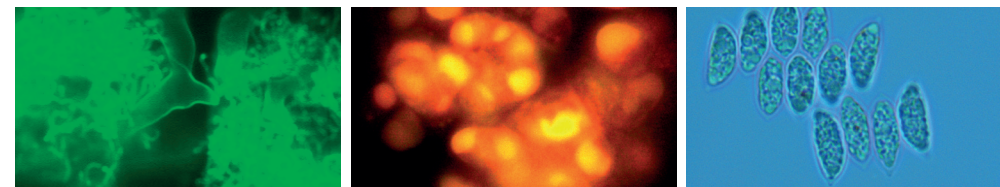


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Plants and Microbes for the future



Workshop

organised by the
PhD School of Biology and Applied Biotechnology
within the PRES Euro-Mediterraneo Project

March 5-6, 2015

Aula Magna
Department of Life Science and Systems Biology
University of Turin Viale Mattioli 25, Turin

Thursday 5 March 2015

- 9.00 *Welcome addresses:*
Antonio Rolando and Paola Bonfante (University of Torino, Italy)

1. Plant biotic interactions

Chairperson: Alessandra Salvioli (University of Torino, Italy)

- 9.15 Pierre Abad (Institut Sophia Agrobiotech, Sophia-Antipolis, France)
Root knot nematodes: new insights into parasitism success
- 9.45 Harald Keller (Institut Sophia Agrobiotech, Sophia-Antipolis, France)
Molecular reprogramming of the host by phytopathogenic Oomycetes
- 10.15 Nicolas Pauly (Institut Sophia Agrobiotech, Sophia-Antipolis, France)
An hydrogen peroxide burst in the Legume - Rhizobium symbiosis

Coffee break

- 11.15 Andrea Genre (University of Torino, Italy)
The process of fungal accommodation by root cells in arbuscular mycorrhizas
- 11.45 Carolina Werner Ribeiro (Institut Sophia Agrobiotech, Sophia-Antipolis, France)
Roles of thioredoxins in the symbiosis between *Medicago truncatula* and *Sinorhizobium meliloti*
- 12.00 Marco Giovannetti (University of Torino, Italy)
Plant nutrient starvation and arbuscular mycorrhizal symbiosis
- 12.15 Loris Pratx (Institut Sophia Agrobiotech, Sophia-Antipolis, France)
Identification of epigenetic marks in the plant parasitic root-knot nematode *Meloidogyne incognita*
- 12.30 Simona Abbà (Istituto per la Protezione Sostenibile delle Piante, CNR, Torino, Italy)
Shall we share? A repository for Open Research Data in agriculture and environmental science

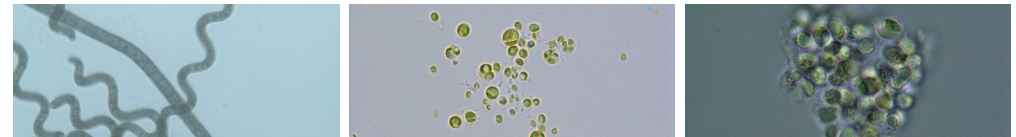
2. Agroecology

Chairperson: Roberto Borriello (Istituto per la Protezione Sostenibile delle Piante, CNR, Torino, Italy)

- 14.30 Christine Poncet (Institut Sophia Agrobiotech, Sophia-Antipolis, France)
An ecological approach to assess agro-ecosystem functioning.
The example of integrated pest management in protected crops
- 15.00 Dave Johnson (University of Aberdeen, UK)
Interplant signaling through hyphal networks
- 15.30 Paolo Gonthier (University of Torino, Italy)
Impact and invasiveness of the exotic plant pathogen *Heterobasidion irregulare*

Coffee break

- 16.30 Andrea Berruti (Istituto per la Protezione Sostenibile delle Piante, CNR, Torino, Italy)
Comparison between the latest findings and our data on arbuscular mycorrhizal fungal community patterns around the world
- 16.45 Cristina Novara (University of Torino, Italy)
Reproductive biology in hazelnut: state of the art and perspectives
- 17.00 Fernando Monroy (CRA-FSO, Sanremo, Italy)
Local variation in multitrophic interactions between plants and soil organisms
- 17.15 Marie Larousse (Institut Sophia Agrobiotech, Sophia-Antipolis, France)
From studies of the microbiota-*P. parasitica*-tomato interaction to plant protection against oomycete infections



Friday 6 March 2015

3. Bioenergy and bioproducts from plants and microbes

Chairperson: Federica Spina (University of Torino, Italy)

- 9.15 Olivier Bernard (INRIA-INRA-CNRS-UPMC, Sophia-Antipolis, France)
Combining energy recovery from oleaginous micro-algae and photovoltaic panels: the Purple Sun project
- 9.45 Tomas Morosinotto (University of Padova, Italy)
Biotechnological optimization of light use efficiency in algae cultures for biodiesel production
- 10.15 Andrea Moglia (University of Torino, Italy)
Metabolic engineering of *Saccharomyces cerevisiae* for the production of avenanthramide analogs endowed with bioactive properties

Coffee break

- 11.15 Alice Romagnolo (University of Torino, Italy)
Fungal ene-reductases as sustainable synthetic tools for fine chemical transformations
- 11.30 Claudia Bragalini (University of Torino, Italy)
Natural diversity of fungal genes involved in plant biomass degradation: an environmental genomics study
- 11.45 Marta Franchino (University of Torino, Italy)
The role of environmental conditions and operational modes in microalgal cultivation for different purposes