Some notes about IPSP – CNR

Istituto per la Protezione Sostenibile delle Piante

The National Research Council (Cnr) is the largest public research institution in Italy

IPSP represents the most important CNR research group dedicated to plant protection in agriculture and forestry.

Born in 2014 from the merger between: the Institute of Plant Virology (IVV) and the Institute for Plant Protection (IPP) of the National Research Council of Italy (CNR).

Both the former Institutes were already involved in the development of sustainable strategies for plant protection.

IPSP counts nearly 120 people and it is made up of **6 Research Units**: the **Turin Headquarter**, the **Turin Unit**, the **Legnaro unit,** the **Florence Unit**, the **Naples Unit** and the **Bari Unit**.

Lines of research at IPSP-CNR

- Biotic and abiotic stresses;
- Crop protection and biosafety of the food chain;
- Diagnostics (including alien pathogens);
- Genetics and epigenetics;
- Green technologies;
- Optimization of the use of natural resources in ecosystems;
- Plant – environment interactions;
- Sustainable intensification in agro-food production and forestry;
- Typical food chains.

Biotic and abiotic stresses

Detrimental to productions, environment and landscape;

At IPSP studies are carried out on the response of plants to biotic and abiotic stress factors, and on the mechanisms of resistance and adaptation;

Development of measures for biocontrol or sustainable control of important plant diseases;

Long-lasting programs for selection of resistant or tolerant varieties have been conducting;

Aim: reduce the economic and ecological costs of traditional control measures following the current EU directives.

IPSP competences

Florence Unit

Recognized competence on fungal diseases of forest trees and on virulence, epidemiology and genetics of fungal pathogens.

Breeding and selection of tree varieties resistant to CCD and DED: for environmental protection, landscape restoration, sustaining of productions.

Physiology: gas exchanges, water relations and secondary metabolites related to stress conditions.

IPSP Florence Unit has coordinated or participated to a series of Eu projects:

in course

- Life: **FO3REST** (partner), **MOTTLES** (coordinator) **MYCORESTORE** (partner)
- H2020: **HOMED**
- Interreg: **MITIMPACT**

Last 5 years

- FP7: **ECLAIRE**, **WATBIO**,**3 to 4**, **ISEFOR**, **PURE**
- P.O. Med: **MEDLAND**

Involvement of IPSP in Life4Fir

A1.3 Survey of seedlings in the nursery

C1.4 Control of biotic and abiotic stresses in *A. nebrodensis*

C2.1 Controlled crosses

C3 Clonal orchard (resp.)

C4.4 Control of biotic and abiotic stresses in the nursery

D. Monitoring (resp.)

E. Communication and dissemination (resp.)

F. Coordination and project management

Contact list

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