



Dipartimento di Scienze  
Bio-Agroalimentari



# ITAlIAn Plant Phenotyping Initiative



## Workshop

18 February 2016 , 9 a.m.

CNR National Research Council—Aula Bisogno Rome, P.le Aldo Moro 7



### Workshop schedule

The aim of this workshop is to unveil the Italian Plant Phenotyping Initiative resulting from a joint activity of ALSIA and CNR. The Italian node of IPPN, ITA-PPN was presented in Barcelona on November 12, 2015, at the IPPN Plant Phenotyping Symposium, and takes the moves from the high throughput phenotyping platform present at ALSIA- Metapontum Agrobios and the Research Unit of CNR-IBBR located in Basilicata Region.

High throughput plant phenotyping, also called plant phenomics, is an emerging and fast growing field of research, that aims to bridge the existing gap between genomics, physiology and agronomy. Plant phenomics takes advantage from the recent developments in the fields of imaging, computer vision and sensor technologies, allowing the nondestructive detection of phenotypic parameters. Plant phenomics spans from basic science to applications in breeding and precision agriculture, combining studies performed under both controlled environments and in the open fields.

Networking is critical in order to exchange experience and set standards by coordinating efforts, competences and knowledge. The IPPN has successfully contributed to the European Science Forum for Research Infrastructures (ESFRI) program, proposing to put together and coordinate available research infrastructures on plant phenotyping in Europe. CNR has joined this initiative and ITA-PPN intends to gather all the national research centers and universities active in this technological field.

*Segreteria Organizzativa*

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09.00	Registration
10.00-10.30	<b>Francesco Loreto</b> (CNR-DISBA) Opening remarks and presentation of CNR and DISBA activities
10.30-11.00	<b>Ulrich Schurr</b> (Forschungszentrum Jülich) <i>Keynote lecture: EMPHASIS: European Infrastructure: Multi-scale Plant Phenomics and Simulation for Food Security in a Changing Climate</i>
11.00-11.15	<b>Francesco Cellini</b> (AGROBIOS-ALSIA) The Phen-Italy initiative
11.15-11.30	<b>Franco Miglietta</b> (CNR-IBIMET) Ongoing CNR phenotyping activities
11.30-12.00	<b>Aldo Ceriotti</b> (CNR-IBBA) and <b>Domenico Pignone</b> (CNR-IBBR) The Interomics Flagship project and its phenotyping content
12.00-12.15	<b>Fabio Fiorani</b> (Forschungszentrum Jülich) State-of-the art platforms and methodologies for analyses of root plasticity to the environment
12.15-12.30	<b>Roberto Tuberosa</b> (Università di Bologna) Networking in phenomics to dissect the crop QTLome
12.30-12.45	TBA
12.45-13.00	TBA
13.00-13.30	Roundtable on perspectives and opportunities of plant phenotyping to help intensifying agriculture and optimize natural resources and conclusions
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15.00-17.00	Restricted meeting with Phen-Italy partners