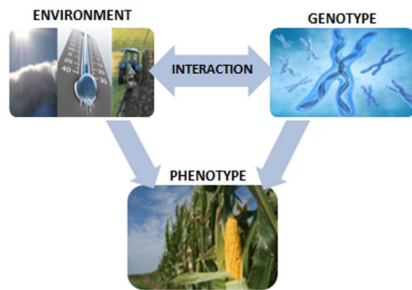


Plant phenotyping is an emerging science that links genomics with plant ecophysiology and agronomy. The functional plant body (PHENOTYPE) is formed during plant growth and development from the dynamic interaction between the genetic background (GENOTYPE) and the physical world in which plants develop (ENVIRONMENT). These interactions determine plant performance and productivity measured as accumulated biomass, commercial yield or resource use efficiency.



The understanding of the link between genotype and phenotype is currently hampered by insufficient capacity (both technical and conceptual) of the plant science community to analyze the existing genetic resources for their interaction with the environment. Advances in plant phenotyping are therefore a key factor for success in modern breeding and basic plant research.

## Organisation

Forschungszentrum Jülich, Germany (coordination)



<http://www.fz-juelich.de>

Leibniz-Institut für Pflanzengenetik und Kulturpflanzenforschung, Germany



<http://www.ipk-gatersleben.de>

Helmholtz Zentrum München, Germany



<http://www.helmholtz-muenchen.de>

Rheinisch-Westfälische Technische Hochschule Aachen, Germany



<http://www.rwth-aachen.de>

Institut National de la Recherche Agronomique, France



<http://www.inra.fr>

Aarhus University, Denmark



<http://www.au.dk>

University of Nottingham, United Kingdom



<http://www.nottingham.ac.uk>

Wageningen University and Research, The Netherlands



<http://greenvision.wur.nl/>

Hungarian Academy of Sciences, Hungary



<http://mta.hu/english/>

Australian Plant Phenotyping Facility, Australia



<http://www.plantphenomics.org.au>

Global Change Research Centre, Czech Republic



<http://www.czechglobe.cz>

Aberystwyth University, United Kingdom



<http://www.aber.ac.uk>

KeyGene Inc., The Netherlands



<http://www.keygene.com>

Phenom-Networks, Israel



<http://www.phenome-networks.com>

Website: [www.plant-phenotyping-network.eu](http://www.plant-phenotyping-network.eu)

Contact: [r.pieruschka@fz-juelich.de](mailto:r.pieruschka@fz-juelich.de)



## Transnational Access

### to EPPN phenotyping installations across Europe

EPPN offers Transnational Access to 23 experimental plant phenotyping installations at 7 different institutions in 5 countries across Europe.

Transnational Access offered by the participating research infrastructures within EPPN includes:

- Free access for eligible user groups to research facilities
- Support for travel
- On-site logistic support by the infrastructure staff
- Access to knowledge and know-how at the research infrastructures necessary to complete the proposed experimental work

Access is granted on the basis of a simple selection procedure.

[www.plant-phenotyping-network.eu/eppn/access](http://www.plant-phenotyping-network.eu/eppn/access)



## Networking

### is the key for European plant phenotyping community

Taking into account that plant phenotyping is developing rapidly, it is likely that more platforms will be designed and set up during the duration of the project. Therefore the networking activities of EPPN reach beyond the present consortium, and provide advice and reference to evolving additional infrastructures. These activities will especially help building new partnerships while valorizing the experiences of the existing platforms. Specifically EPPN will foster and strengthen interaction by organizing:

- International Plant Phenotyping Symposia
- Summer Schools
- EPPN Information Workshops
- Developer Workshops
- Round Table Meetings

[www.plant-phenotyping-network.eu/eppn/networking](http://www.plant-phenotyping-network.eu/eppn/networking)



**2<sup>nd</sup> International Plant Phenotyping Symposium  
September 2011**

## Joint Research Activities

### of EPPN

The EPPN consortium has identified the major needs related to the advancement of plant phenotyping science within Europe and worldwide. Joint research activities of the consortium will pursue a development and adaptation of novel sensor technology, methods and assays for application in plant phenotyping which will be embedded into common IT standards.

The joint research activities include:

- Novel Instrumentation
- Good Phenotyping Practice
- IT for Phenotyping

[www.plant-phenotyping-network.eu/eppn/research](http://www.plant-phenotyping-network.eu/eppn/research)

