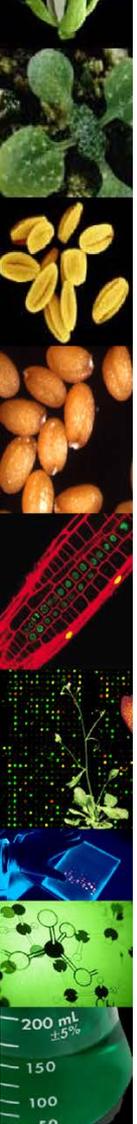




Saclay Plant Sciences LabEx Kick-Off meeting

Infrastructures

October 13, 2011





MANAGEMENT,
INFRASTRUCTURES,
VALORIZATION

November 2010



INFRASTRUCTURES

Hélène Barbier-Brygoo

Christian Meyer

Boulos Chalhoub

Michel Dron

Today



Improve the organization and access to technological platforms

- List of all platforms and resources available and their mode of access
- Number of labelled platforms (IBiSA, ISO certification)
- For each platform: number and nature of projects, teams involved, costs and funding sources

Facilitated access to state-of-the-art core facilities, a key for:

- Research
- Scientific attractiveness
- Partnership with industry

SPS Infrastructures

High (medium) throughput techniques for (plant) biology

IJPB

- Common laboratory for cytology
- Plant chemistry laboratory
- Plant biochemistry common laboratory
- Biological resource center (Arabidopsis)

IBP

- Metabolite profiling and stable isotope analyses

ISV

- Imaging and cell biology (IBiSA, ISO9001)

URGV

- Transcriptomics (IBiSA)
- TILLING
- Positional cloning facility (IBiSA)
- Phosphoproteomics

- Large range of plant culture facilities (IJPB, IBP, ISV, URGV)
- Plant phenotyping facilities (IJPB)



SPS Infrastructures

Platform-specific actions

❖ *Involvement in Investissements d'avenir projects*

France BioImaging, Morphoscope, BioMoCom, TEFOR, ...

Links inside and outside SPS

❖ *Visit of John Ryals and Carlos Malpica (Metabolon, Durham, USA)*

29 septembre 2011

Seminar of J. Ryals « Global Untargeted Metabolomic Analysis and its Applications in Biotechnology »

Visit of metabolomic platforms at IBP (G. Tcherkez, F. Gilard) and IJPB (G. Mouille)

Entry point for private partners

❖ *Teaching, training, lifelong learning*

Hands-on training, “SPS-labelled” teaching modules

One of the keys for attractivity

SPS Infrastructures

Coordinated actions

- ❖ *A new project based on SPS infrastructures : multi-level plant phenotyping*

Discussions June 2011 (Boulos Chalhoub)

Same set of samples analysed on different platforms

From the gene/the metabolite to the plant (SPS)

**From the gene/the metabolite to the field/the ecosystem
(SPS, BASC, ...)**

Equipex call (local network) ?

Models ?



**Institut Clinique
de la Souris**



**Arabidopsis GROwth Network integrating
OMICS technologies (EU FP6)**

SPS Infrastructures

IDEX Paris Saclay: an appropriate framework to support SPS platforms ?

❖ *IDEX2 – Biology-Chemistry group*

Infrastructures (Hélène Barbier-Brygoo, Christian Meyer)

❖ *IPS – Programme 4 - Opening access to cutting-edge technology*

"The IDEX will particularly support: emergence of platforms serving its scientific strategy creation of coherent experimentation clusters emphasising openness and platform visibility and their use to assist interdisciplinarity, training or innovation.

To this end, several tools will be put in place, including:

- a call for projects centred on R&D and commercialisation of original instruments*
- specific training programmes through internships for students and summer schools*
- a dedicated budget for platform refurbishment, creation, improvement or networking in accordance with the IDEX scientific strategy."*

Networking SPS platforms, IMAGIF, ARPEJ...