

# Workshop "Opportunities for Plant Research in FP6"

Cologne, 2/3.5.2002

Organised by EPSO Members

## Conclusions from the workshop

Available at [www.epsoweb.org/catalog/Workshop.htm](http://www.epsoweb.org/catalog/Workshop.htm)

### 1. FRAMEWORK 6 - THERE ARE AT LEAST THREE PLACES FOR PLANT SCIENCE

#### FOCUSSED ON ONE OR MORE PRIORITY THEMATIC AREAS:

P1. HEALTH (GENOMICS, BASIC PROCESSES) → relates to workshop themes 1 & 2

P5. FOOD (QUALITY, SAFETY) → relates to workshop theme 3

P6. SUSTAINABLE DEVELOPMENT (BIOLOGICAL RESOURCES) → relates to workshop theme 4

[See detailed information on workshop web.](#)

### 2. FEEDBACK FROM PARALLEL SESSIONS

- EMERGING PROPOSALS PRESENTED BY:
  - T1 MICHEL CABOCHE
  - T2 CHRIS BOWLER
  - T3 MARK STITT
  - T4 PIERRE DE WIT
- SOME WELL ADVANCED POTENTIAL EoI ADDRESSING BOTH THE PRIORITIES AND USING THE IP, NoE INSTRUMENTS
- SEVERAL SMALLER GROUPS WITH SIMILAR IDEAS COULD EITHER FORM A JOINT IP OR NoE, OR FOCUS ON DIFFERENT TOPICS, IN SEPARATE IP OR NoE.
- AVOID PARALLEL SUBMISSION OF RELATED PROPOSALS (WE NEED TO SHOW WE ARE PREPARED).

#### Workshop THEME 1: PLANT FUNCTIONAL GENOMICS FOR HEALTH

- HETEROGENEITY OF SIZE AND STATE OF PREPARATION. NAIVETY ON IMPLICATIONS FOR HUMAN HEALTH.
- NO NEED TO FINALIZE NOW THE EoI - CAN FIND PARTNERS LATER??
- SOME PROJECTS HAVE TO BE DIFFERENTIATED, TO REDUCE OVERLAP, OR FUSED. Eg KINASES, OXIDATIVE STRESS, TRANSCRIPTOME.
- EXPLOIT AVAILABILITY OF TOOLS FOR PROJECTS ON BIOLOGICAL PROCESSES BETWEEN PROJECTS.
- EMERGING IP / NOE (TOOLS):

[NETWORK OF NATIONAL PROGRAMMES. GABI-GENOPLANTE-GARNET AND RELATED PROJECTS.](#)

[ORPHEUS](#)

[TRANSCRIPTOMICS](#)

[PROMOTER IDENTIFICATION \(POSSIBLE LINK?\)](#)

STRUCTURAL GENOMICS  
SINGLE CELL ANALYSIS  
AGRIKOLA (SYSTEMATIC RNAi)  
RICE PROTEOMICS  
MOLECULAR FARMING

### **Workshop THEME 2: PLANTS TO STUDY BIOLOGICAL PROCESSES**

- EMERGING IP / NOE:

TRANSCRIPTION FACTORS IN ARABIDOPSIS  
EPIGENETIC MECHANISMS  
RNA & DNA METABOLISM  
GENE SILENCING- MECHANISMS & EXPLOITATION.  
THE CELL CYCLE  
KINASES AND PHOSPHATASES  
OXIDATIVE STRESS  
REPRODUCTION  
EMBRYOGENESIS

- GAPS! INNATE IMMUNITY IN DIFFERENT SPECIES. TOTIPOTENCY AND STEM CELLS.  
ANALYSIS OF BASIS OF GENETIC DIVERSITY.

### **Workshop THEME 3: PLANTS, FOOD QUALITY AND HEALTH.**

- SOME PROJECTS OF HIGH AMBITION AND LARGE SCALE, AND APPROPRIATE ORIENTATION  
- NEED TO THINK DIFFERENTLY TO FP4 AND FP5  
- EMERGING IP / NOE:

SOLANACEAE GENOMICS AND FOOD QUALITY  
CEREAL GENOMICS AND NUTRITIONAL IMPROVEMENT.  
SECONDARY METABOLISM AND VOLATILES FOR FOOD QUALITY AND HEALTH  
CHANGING SPECIFIC METABOLIC PROCESSES - FRUCTANS & TREHALOSE  
MINERAL NUTRIENT LEVELS  
DIVERSITY OF CROP PLANTS BY TILLING  
PROFILING OF CROP COMPOUNDS FOR HEALTH AND NUTRITION.

- GAPS! ALLERGENS, NITROGEN.

### **Workshop THEME 4: PLANTS AS A SOURCE FOR SUSTAINABLE DEVELOPMENT**

- DISCUSSIONS ON SIZE AND CONTENT OF EoI ...BIG AND BROAD, ...OR SMALL AND FOCUSED  
- SUBMIT PROPOSALS WITH A CLEAR MESSAGE THAT **DIRECTLY** ADDRESSES PROGRAMME  
- EMERGING IP / NOE:

LEGUMES. TOO AGRICULTURAL?  
SYLVICULTURE. BROAD BASE, FITS PROGR.  
GENETIC RESOURCES OF GRASSES. POTENTIAL OUTSIDE AGRICULTURE.  
ENVIRONMENT-RELATED PROJECTS. REDUCED INPUTS TO AGRICULTURE. PLANT MICROBE INTERACTIONS.

- GAPS! NOTHING ON BIOFUELS, MOLECULAR ECOLOGY, POPULATION STRUCTURE.

### 3. AFTER YOU LEAVE THE WORKSHOP

- PROVIDE INFORMATION TO COLLEAGUES
- THE ACTIVITIES PROMOTED BY EPSO ARE OPEN
- EPSO WILL CONTINUE TO HELP WITH EoI, FOR EXAMPLE BY HELPING TO FIND PARTNERS, AND FACILITATE COMMUNICATION (EoI CAN BE PUT ON EPSO WEBSITE TO HELP COMMUNICATION).
- INFORMATION ON EXPRESSIONS OF INTEREST
  - VIA EPSO WEBSITE.
  - SEND ANY QUESTIONS TO EC HELP DESK (ADDRESSES IN ANNEX TO THE EoI PAPERS)
- FURTHER CONTACTS BEYOND PLANT SCIENCE ARE VERY IMPORTANT
  - ANIMAL RESEARCH: CONTACT LUC VAN DYCK, ELSF [luc.vandyck@elsf.org](mailto:luc.vandyck@elsf.org) OR BABETTE REGIERER [regierer@mpimp-golm.mpg.de](mailto:regierer@mpimp-golm.mpg.de) BY MAY 10.
  - COMMUNICATION MANAGEMENT IF NEEDED AS POTENTIAL PARTNERS (K. SIMENUS, E. SCHULZE, GENIUS BIOTECH GmbH [eschulte@genius-biotech.de](mailto:eschulte@genius-biotech.de))

### 4. THE NEXT ACTIVITIES OF EPSO

- EPSO WILL CONTINUE TO ASK FOR CHANGES SUPPORTING PLANT SCIENCES IN FP6
- WE WILL TAKE AN ACTIVE ROLE IN SUPPORTING CALLS TO OPEN NATIONAL RESEARCH PROGRAMS
- EPSO CONFERENCE IN BRUNNEN, SW, 27-31 OCTOBER, 2002, INFORMATION AND REGISTRATION AT [www.epsoweb.org](http://www.epsoweb.org)
- EPSO REPRESENTS ALREADY 39 INSTITUTES & UNIVERSITIES AND WELCOMES NEW MEMBERS TO PROMOTE PLANT SCIENCE IN EUROPE - CONTACT KARIN METZLAFF [karin.metzlaff@gengenp.rug.ac.be](mailto:karin.metzlaff@gengenp.rug.ac.be)