

WP4
Task 4.4

Analysis of the expression of host genes associated to resistance

Did you know?
Broomrape parasitism on tomato roots induces differential gene expression to the host plant.



Commercial hybrids and Introgression lines (ILs) of tomato plants were inoculated with *P. ramosa* seeds (A,B). After parasitism, root samples of the host plants were collected both for parasitized and non-parasitized plants (C).

Until now:

- RNA extraction
- cDNA synthesis

Future plan:

- q-PCR experiments to investigate the relative expression of genes involved in resistance to broomrape species
- Identification of molecular markers (SSRs/SNPs) for detecting the differences between susceptible and resistant tomato genetic material against broomrape.

