



**COST ACTION  
FA1204**

Connection of private and public grafting research:  
**inventarisation of crop-related rootstock problems**





# Tomato & Eggplant rootstock problems



## Problem description:

- 1 Soiless: Control crazy root disease (*Agrobacterium rhizogenes*)
- 2 Soil: Nematodes, wilt causing fungi and oomycetes
- 3 salt stress
- 4 resistance to *Pyrenochatea lycopersici*
- 5 resistance to *Fusarium oxysporum lycopersici* r2 (ex3)
- 6 resistance to *Fusarium oxysporum radidis lycopersici*
- 7 resistance to *Verticilium dahliae*
- 8 uniformity seeds germination
- 9 abiotic stress tolerance open fields/passive glasshouses
- 10
- 11





# Melon rootstock problems



	Problem description:						
1	resistance to <i>Fusarium oxysporum</i> race 1.2 (F,I,E,Maroc)						
2	linkage drag: resistances and taste						
3	yield and biotic stress resistance						
4	"sudden death" (graft incompatibility)						
5	improve earliness						
6	too vigorous in 2nd part growth season						
7							
8							
9							
10							





## Cucumber / Courgette rootstock problems



Problem description:							
1	variation in grafting success Jan. - July due to weather						
2	abiotic stress tolerance open field/passive glasshouses						
3	Soilless culture: no improvement yield						
4							
5							



# General rootstock problems

Problem description:	
1	knowledge how the rootstock affects scion and fruit quality
2	what happens exactly at cut surface scion-rootstock?
3	Improving yield, stability (=robustness), sustainability
4	biomarkers that predict rootstock traits
5	balance between vigour (veget.) / production (gener.)
6	(in)compatibility problems
7	resistances to new diseases (viruses)
8	low-temperature tolerance unheated soil production
9	(a)biotic stress resistance (thermal stress, low radiation)
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