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Leiden
The Netherlands

Host genes involved in Agrobacterium-mediated transformation

Soltani, J.

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Stellingen

Behorende bij het proefschrift

‘Host genes involved in *Agrobacterium*-mediated transformation’

1. Microtiter-plate based *Agrobacterium*-mediated transformation (AMT) enables genetic transformation of large numbers of different yeast strains and screening of yeast strain collections for the identification of host genes involved in AMT.

This thesis

2. Yeast is an excellent eukaryotic model host for AMT studies.

This thesis

3. The status of chromatin modification affects the efficiency of AMT.

This thesis

4. An increase in AMT can be obtained by modulation of protein sorting complexes, i.e. ESCRTs.

This thesis

5. Occasional transfer of *Agrobacterium* chromosomal DNA to the host cell and genetic side effects accompanying AMT should not be neglected in the utility of *Agrobacterium* as a tool in basic and applied research. (Ulker *et al.*, 2008, Nat. Biotech., 26:1015-1017; van Attikum *et al.*, 2001, EMBO J., 20:6550-6558)

6. Since the involvement of chromosomal *Agrobacterium* genes in the transformation of eukaryotic organisms has not yet been studied in a systematic way, the real contribution of chromosomal genes on the transformation process still has to be revealed. (Citovsky *et al.*, 2006, Cell Microbiol 9:9-20; Gelvin, 2003, Microbiol Mol Biol Rev 67:16-37).

7. Beside its contribution to basic biology and biotechnology, *Agrobacterium* has unique potentials for nanobiotechnology. (Vergunst *et al.*, 2000, Science 290:979–982; Grange *et al.*, 2008, PLoS Biol 6:e44).

8. Large scale searches for protein-protein interactions may reveal only a very small part of the existing interactions (Gavin *et al.*, 2002, Nature 415:141-147; Kakiuchi *et al.* 2007, Biochemistry 46:7781-7792).

9. Any career is a ‘route’, not a ‘destination’.

10. For designing and performing experiments an unhurried sense of time can save you time.

11. Life is a unique multi-dimensional event that demands to live it to the fullest in all dimensions -in parallel- just today!

12. The reality of life talks to us in silence.