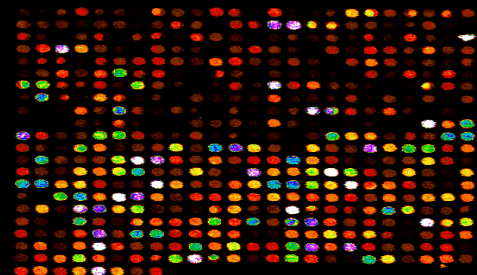
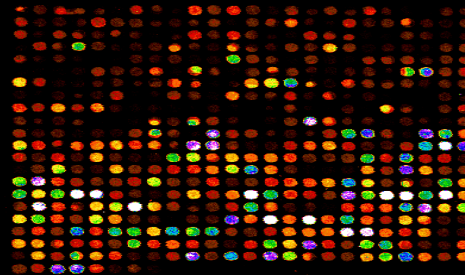
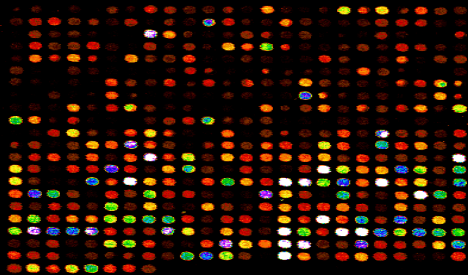
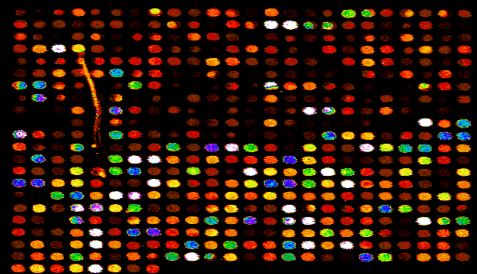
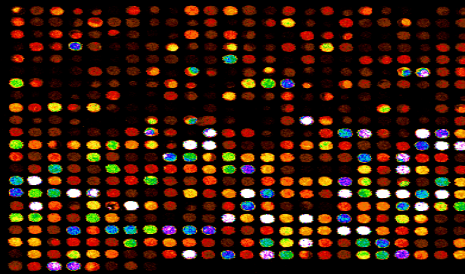
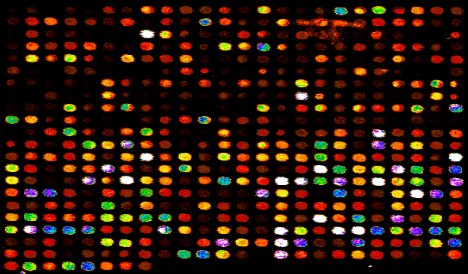


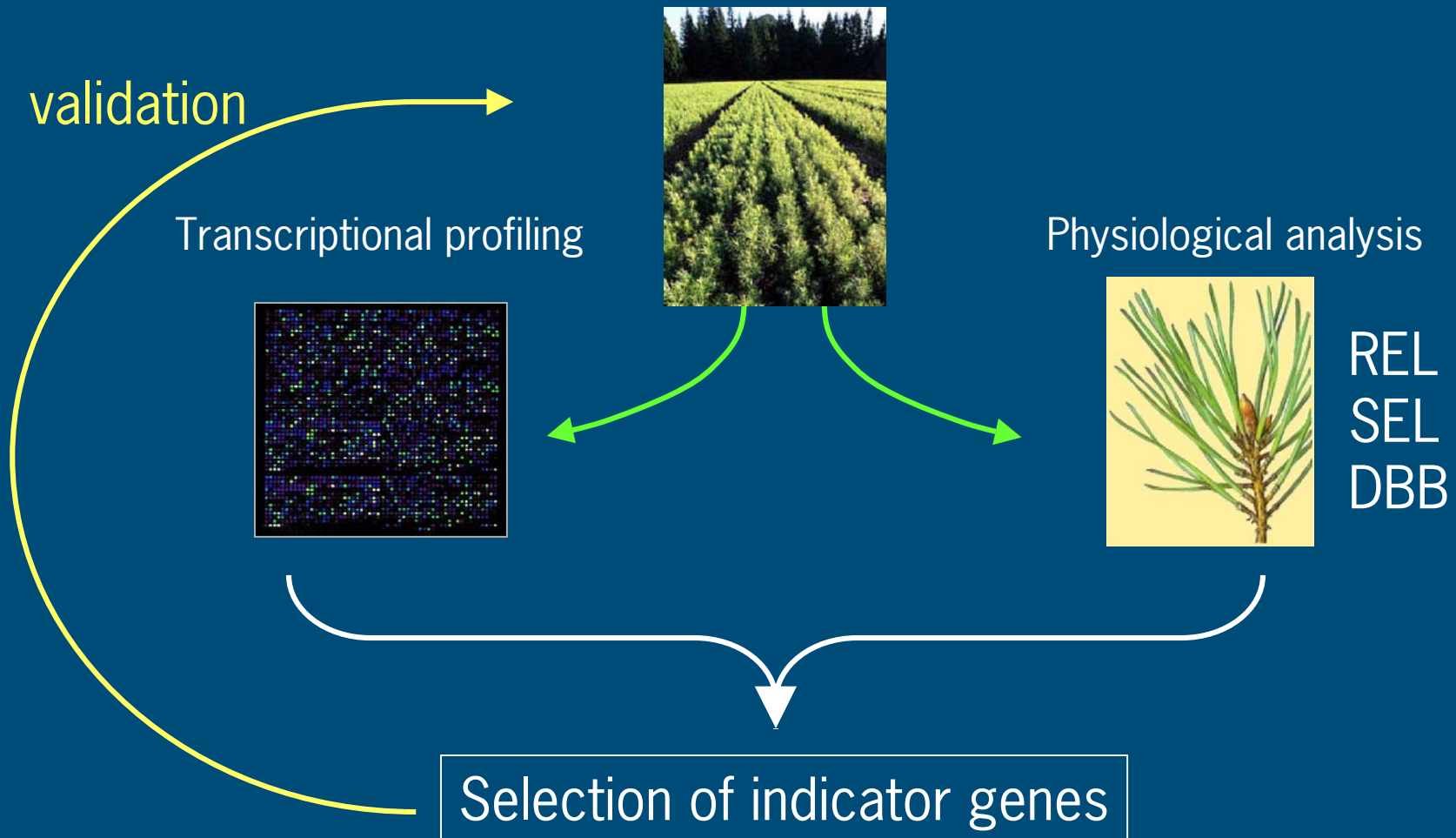
COLD-TREE EU project



The application of cDNA microarray technology for unravelling molecular events underlying dormancy and cold hardiness in forest tree seedlings

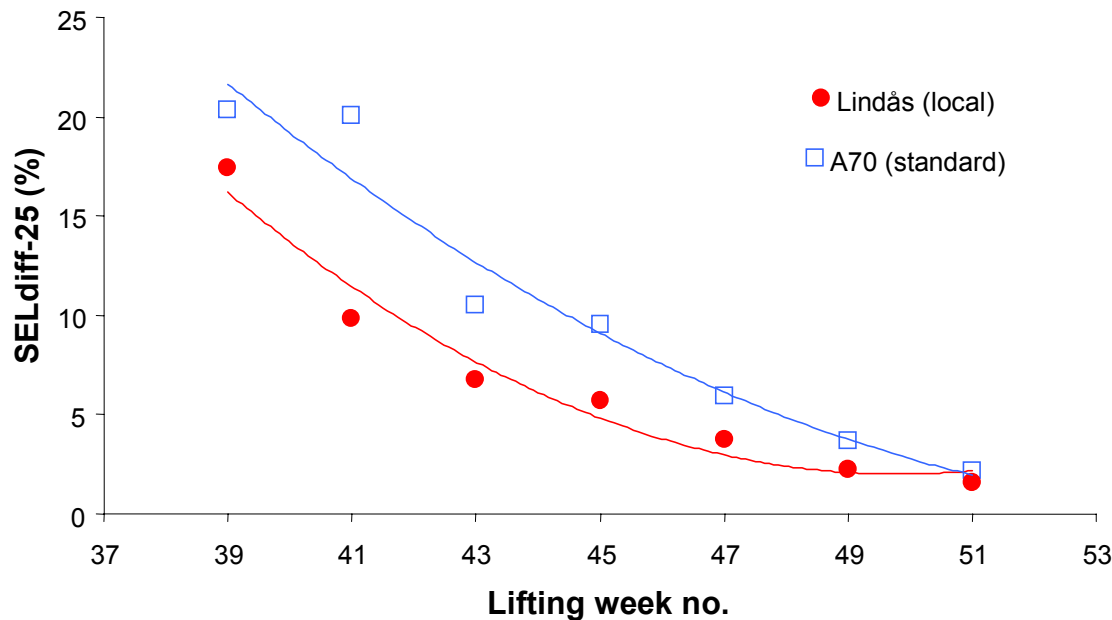


Finding markers for cold tolerance of pine seedlings



Physiological characterization of pine seedlings: Selection of samples for chip hybridisations

Shoot frost hardiness (SELdiff-25) of Scots pine standard provenance A70 and local Danish provenance Lindås



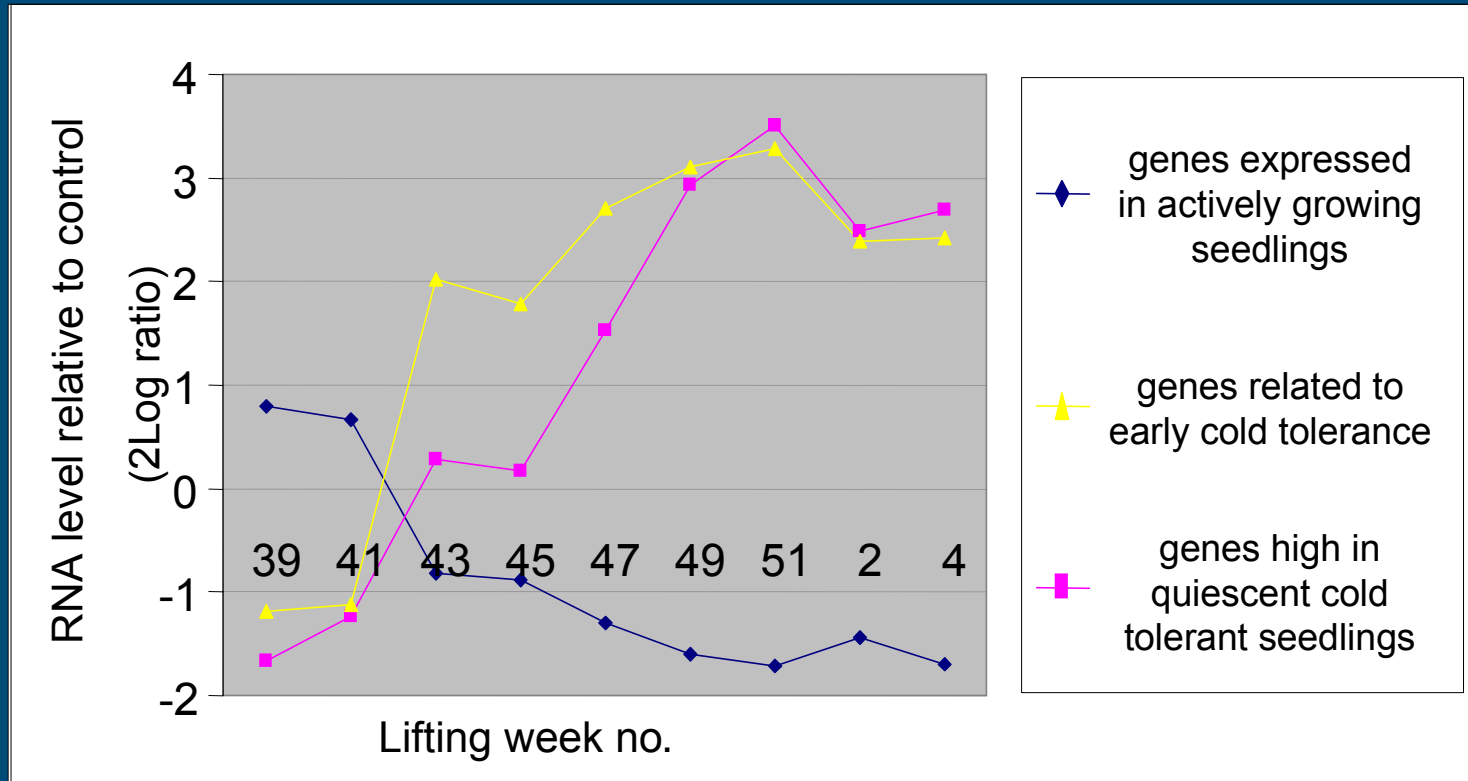
- Physiological status
- seedling age
- location
- period

- select physiological transitions
- start with extremes
- work towards details

- training set
- blind set



Average expression of genes related to cold tolerance



Using a cDNA microarray containing 1500 genes, over 100 genes were identified that showed cold tolerance related gene expression. These genes can be developed into molecular markers

