

Resource allocation between organs and pathway

The different scales of the distribution of fixed carbon comprises both the partitioning between organs as well as the metabolic channeling between competing pathways of primary and secondary metabolism. The analyses of the underlying molecular regulatory mechanism will contribute to the understanding of plant growth and development. It is also a prerequisite for the increase of harvest yield, storage products, and the bionergetic and material potential of crop plants as well as the production of proteins and chemicals for pharmacy and industry.



SAG12:Cin1

W 38

Extopic expression of an extracellular invertase under control of a senescence induced promoter (SAG12:Cin1) results in a delay of senescence compared to the control (W38)

Key reference:

Balibrea et al.(2004) Extracellular invertase is an essential component of cytokinin mediated delay of senescence. Plant Cell 16: 1276-1287

Review:

Roitsch and Gonzalez (2004) Function and regulation of invertases in higher plants: sweet sensations. Trends in Plant Science 9: 607-613