

Transnational Access Report

1. General Information

Project Acronym (ID):	SWEETREGIME-Root
Project Title	Sugar signaling in the integration of growth and drought/osmotic stress signaling
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2. Duration of access

Begin of the project	End of the project
25.02.2013 (pouring of plates)	25.03.2012 harvest of roots

3. Project summary (max. 250 words)

A strong link of growth processes and the metabolite trehalose-6-phosphate have been unraveled this has also been shown for the roots of *Arabidopsis thaliana* seedlings. Also, impact of trehalose and or its precursor trehalose-6-phosphate on the sensitivity of growth to biotic and abiotic stresses has been described. The downstream signaling of T-6-P has been elucidated previously and mutants and transgenic lines are available for a set of known or putative downstream players of T-6-P signaling and plants altered in the trehalose-6-phosphate. Such plants altered in the T-6-P signaling and its downstream pathway were investigated for their rosette growth under stress conditions (cold and darkness), with special focus on the recovery of growth after stress-induced growth repression.

4. Main achievements (max. 250 words)

Data of the root system of the mutant and transgenic lines were collected and are under analysis.