

Accessory Publication

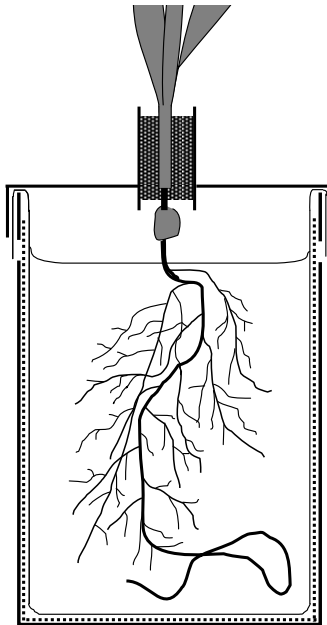


Fig. S1. Polypropylene container used for hydroculture and exudation measurement. The maize plants are fixed at the mesocotyle and shoot basis with a coiled sheet of foamed polyurethane in the central plastic tube of the screw cap, keeping the caryopse above the liquid level. Several holes in the polypropylene container enable for diffusive gas exchange between the outer atmosphere and its inner cavity that is lined by a sheet of filter paper (dotted line) and a polyethylene bag (solid thin line). Diffusive gas exchange of the mineral solution (500–600 mL) is enabled through the whole surface of the polyethylene bag with a thickness of 20 μm containing the solution.

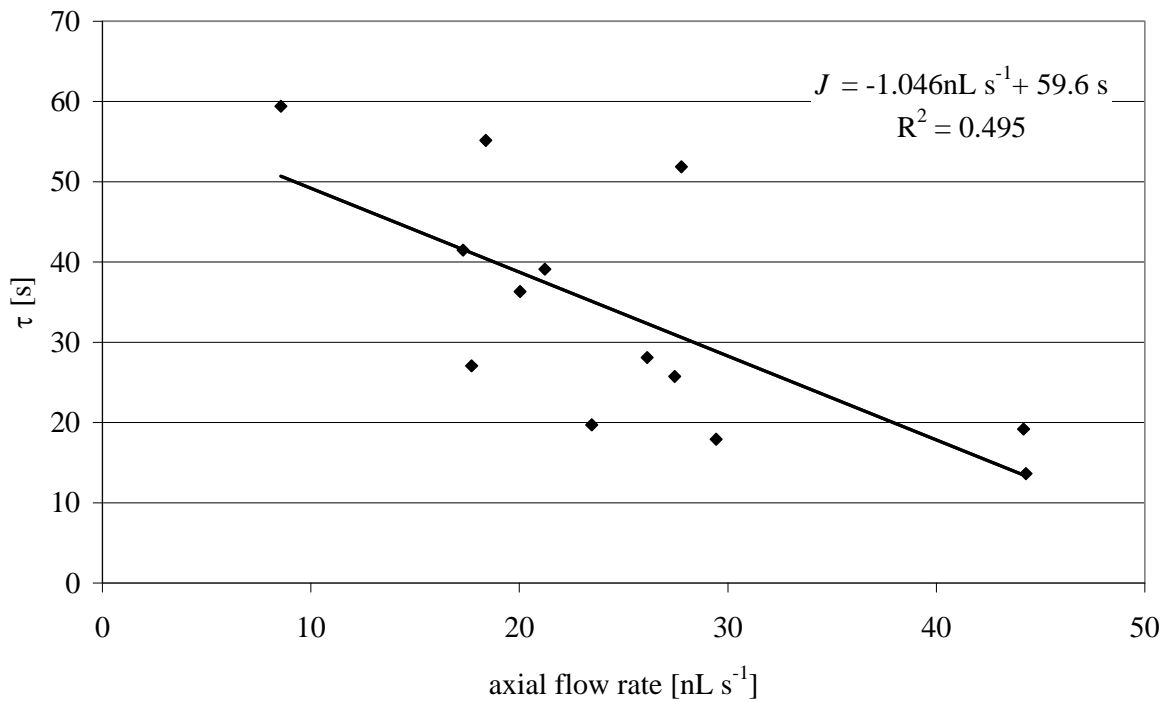


Fig. S2. Correlation between axial flow rate J and the half life period of the transient osmotic effect. The half life periods are derived from the best fitting numerical variant of equation 1 (see Materials and methods). The change in osmotic pressure of the medium was 65 mbar. Data of the roots exuding in Hoagland media with 30 mM NaCl added (compare Table 1).