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Sodium transport in plant cells (Ekkehard Neuhaus)

Excess salinity provokes impaired metabolism and development in plants. Plants possess various transport proteins able to transport Na^+ , e.g. the plasma membrane located SOS1 protein, various intracellular-located NHX carriers, a Na^+ /pyruvate Co-transporter in the plastid envelope or a Na^+ /Pi co-transporter located in the thylakoid system. Within this project we will decipher the physiological impact of selected Na^+ transporting proteins in more detail. In particular we focus on the coordinated intracellular movement of sodium under control and salt-stress conditions.