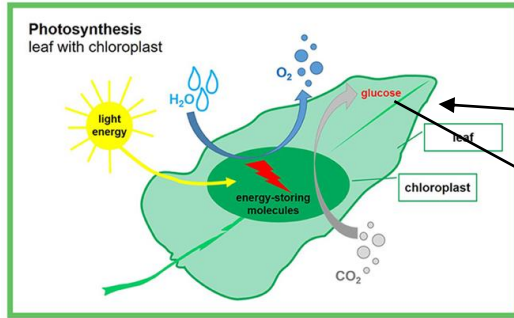




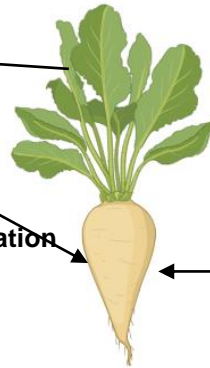
Deepthi Konche

Exploring the effects of FACE (Free Air Carbon dioxide Enrichment) and Disease development on Photosynthesis, physiological parameters, and Yield in Sugar beet

Onno Muller, Anna Katrin Mahlein, Anna Jacobs, Christoph Jedmowski, Uwe Rascher



Sugar beet



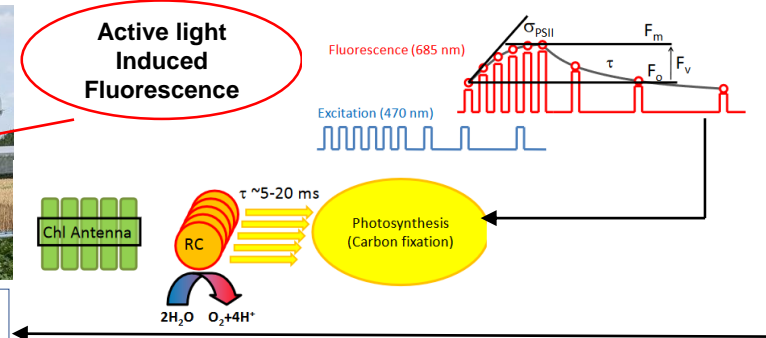
Sugar accumulation



Effect on photosynthesis

Affected by

Free Air CO₂ enrichment Octagonal Pipe system

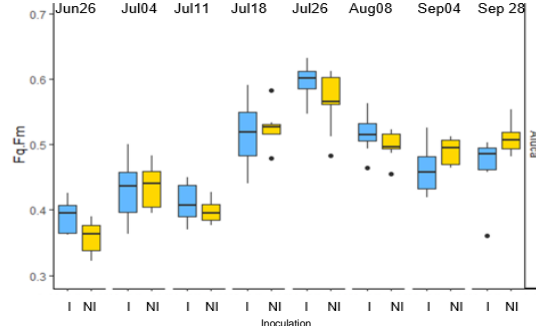
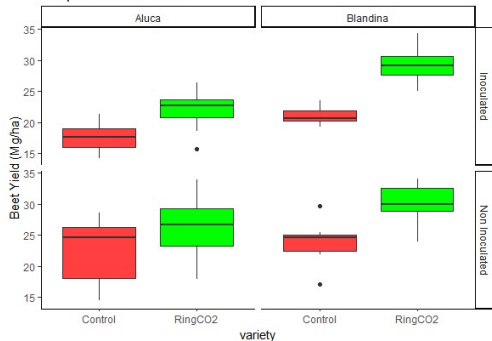


Cercospora leaf spot

Disease + Elevated CO₂

Photosynthesis → Yield

Root Yield



Photosynthetic efficiency (F_q'/F_m') in one variety under elevated CO₂

Root Diameter

