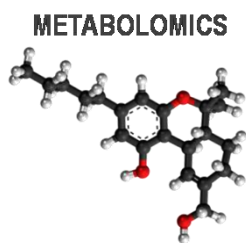
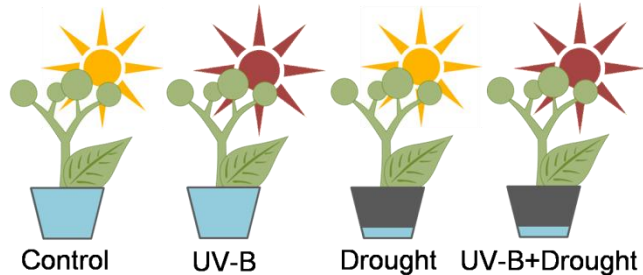


Master thesis: Inbreeding effects on plant resistance to abiotic stress

Kiel University
Institute for Ecosystem Research
Geobotany



BACKGROUND:

Founder populations of plants colonizing novel habitats in the course of **biological invasions** are often subjected to high **inbreeding** rates (mating among close relatives). Inbreeding can reduce a plants' **resistance to different abiotic stressors** (e.g. high UV-B radiation, drought). The project aims at estimating the consequences of these effects on plant invasion success.

METHODS:

Practical work will comprise a **common garden experiment**, in which inbred and outbred *Silene latifolia* plants (White Campion) are subjected to four experimental treatments including benign control conditions, **high UV-B radiation**, **drought**, and high UV-B radiation + drought. Data on plant fitness (size, biomass, flower number) and metabolic responses to experimental stress will be recorded.

STARTING DATE

from April 2020 to May 2020

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Study species (top), experimental design (middle), and data acquisition (bottom) for Master thesis