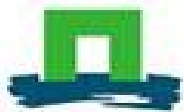


Plant weerbaarheid



Kirsten Leiss

Senior Onderzoeker Plantgezondheid



WAGENINGEN
UNIVERSITY & RESEARCH

KNPV 21 November 2024

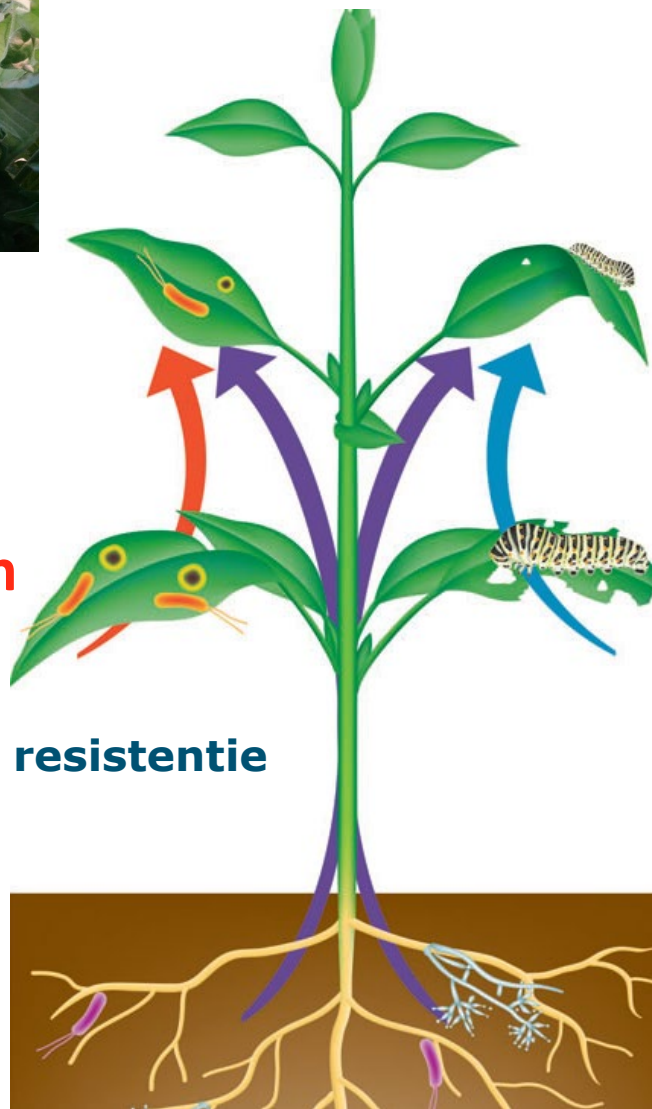
Plantweerbaarheid



Salicylzuur SA

Biotrofe pathogenen

➔ Geïnduceerde resistentie



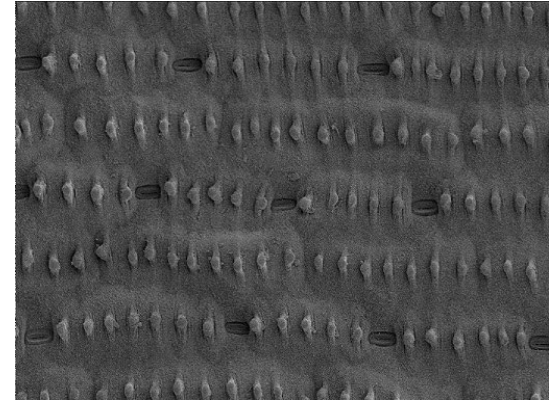
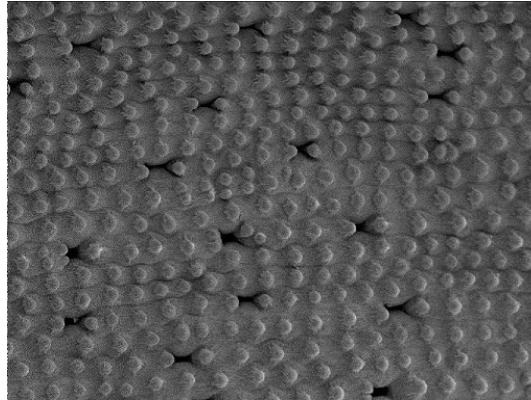
Jasmonzuur JA

Insecten
Necrotrofe pathogenen

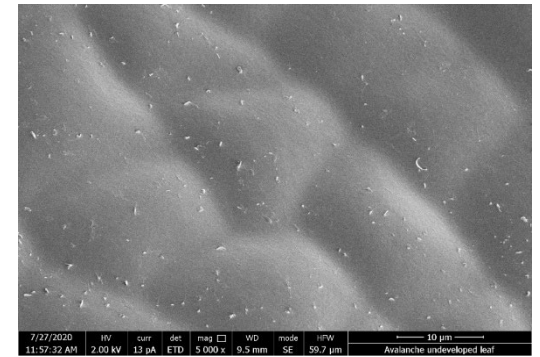
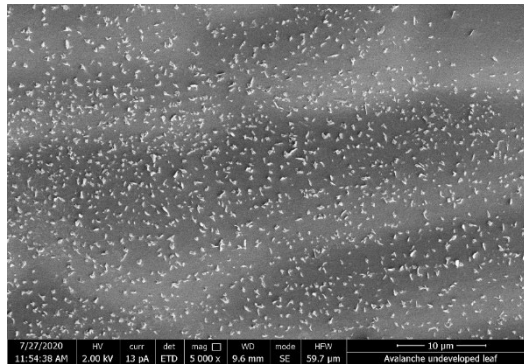


Ethyleen
Microbioom

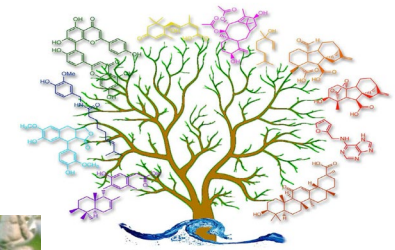
Morfologische kenmerken



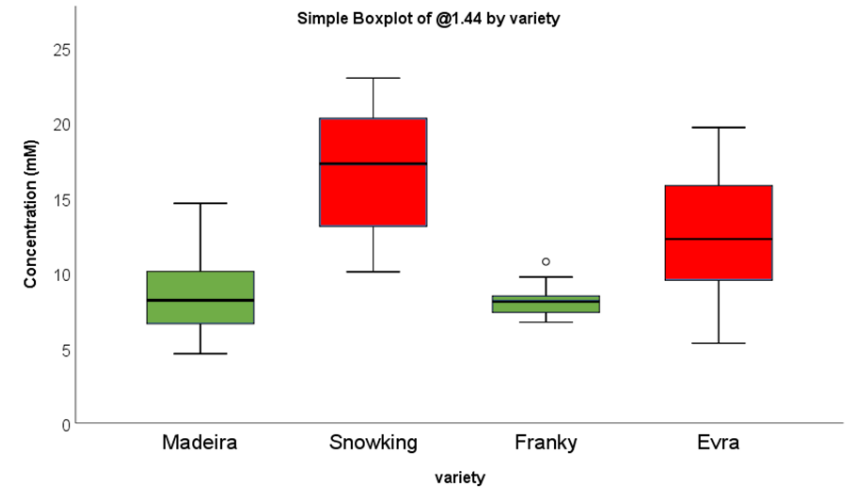
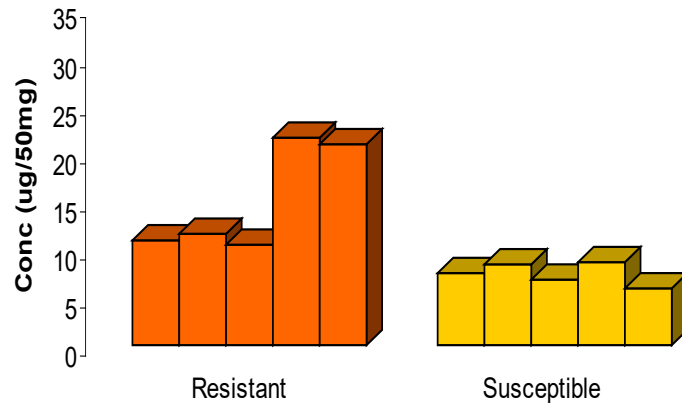
Wahyuni, Leiss et al. 2021; 2024 Plants



Chemische kenmerken



Chlorogenic acid



Leiss et al. 2009 Plant Physiol.

Mascellani, Leiss et al. 2022 Fr. Plant Sci.

Plantvitaliteit

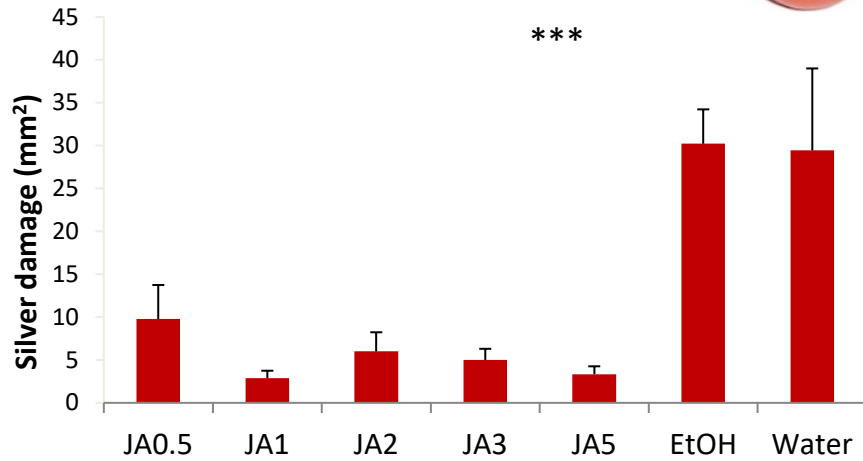
- Plantvitaliteit: plant in goede algemene conditie



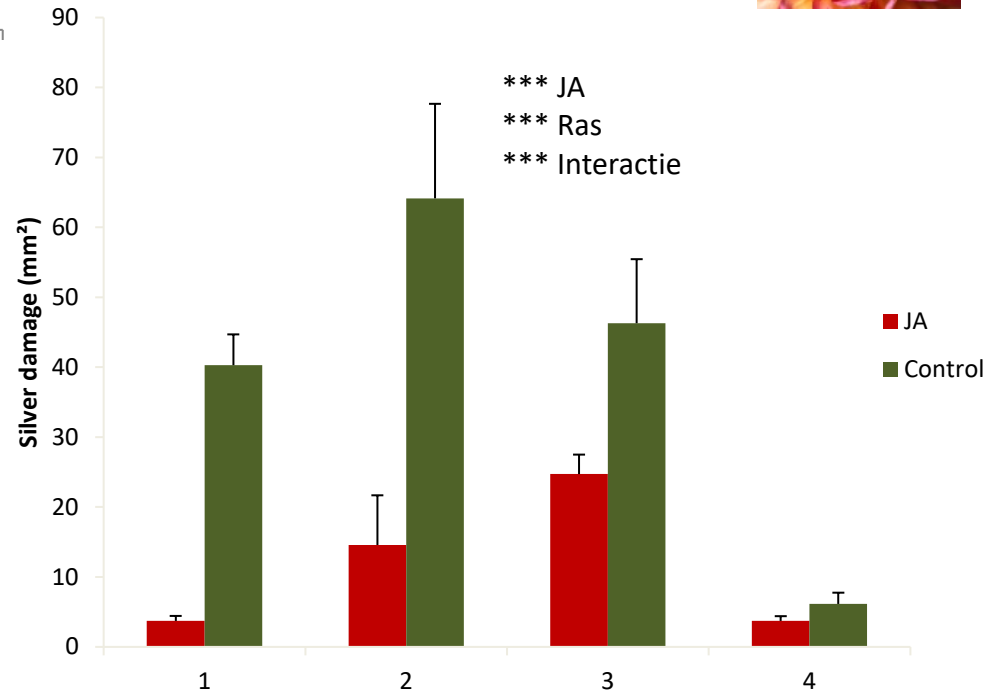
Jasmonzuur



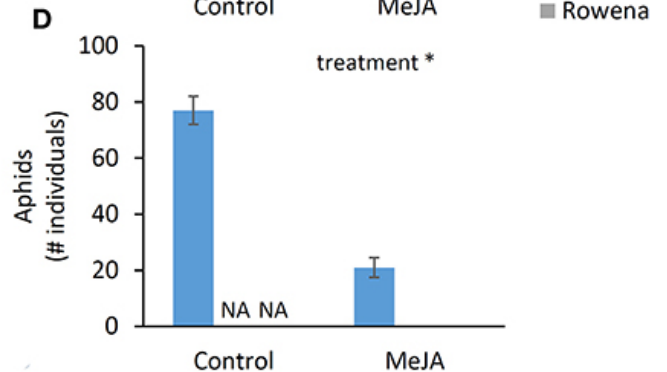
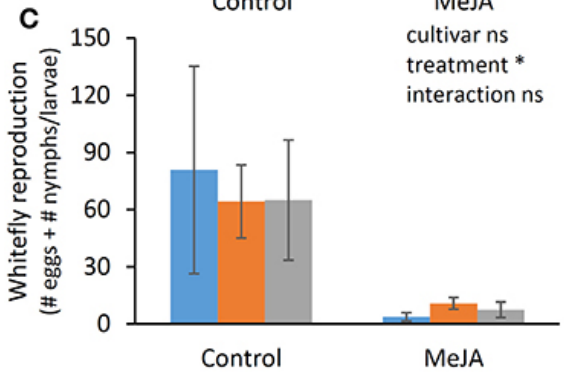
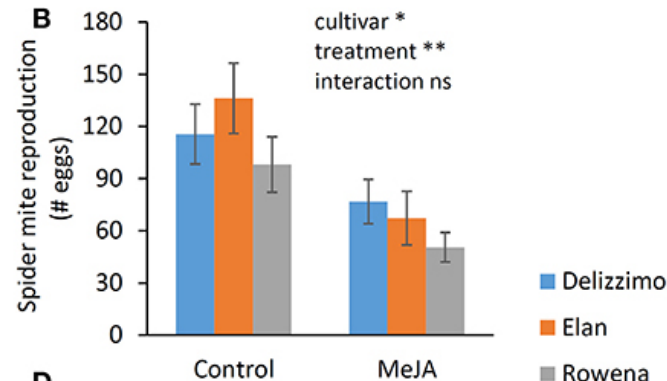
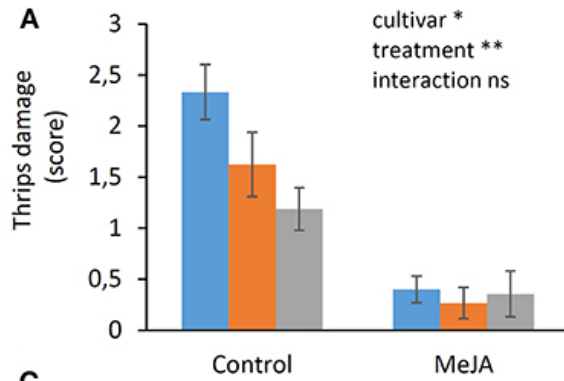
Moneymaker



Mouden, Leiss et al. 2020 Front. Plant Sci.



Jasmonzuur



Trips



Spint



Witte vlieg



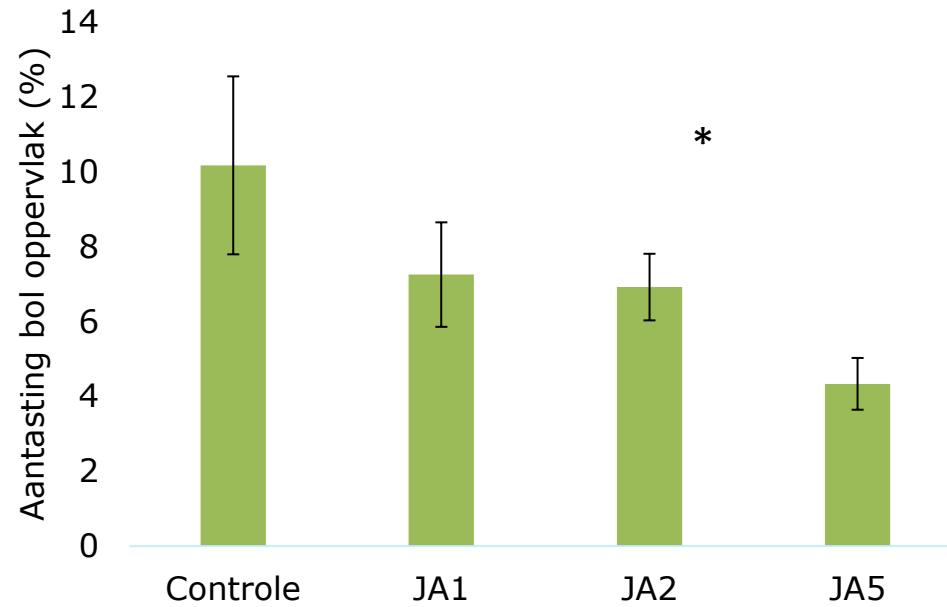
Luis

Mouden, Leiss et al. 2021 Front. Plant Sci.

Jasmonzuur



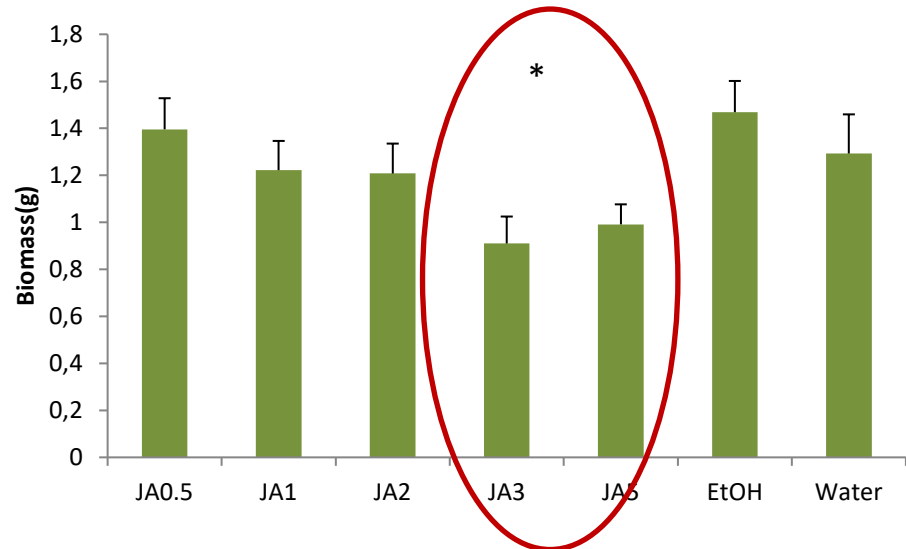
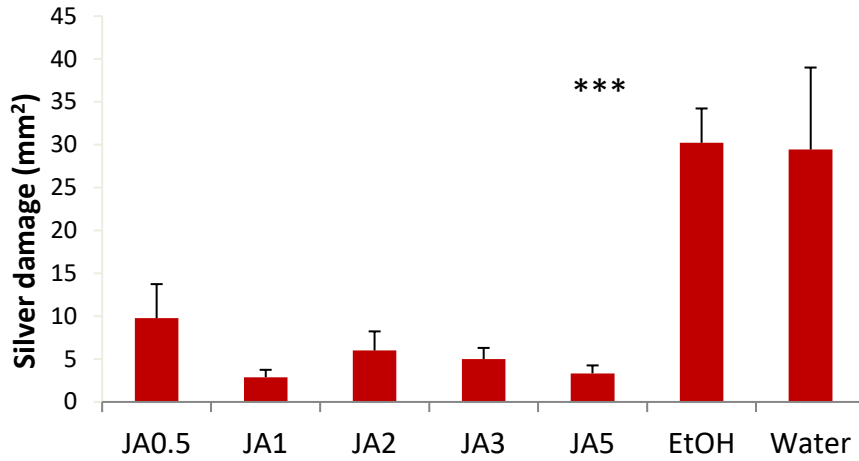
Zambesi



Jasmonzuur



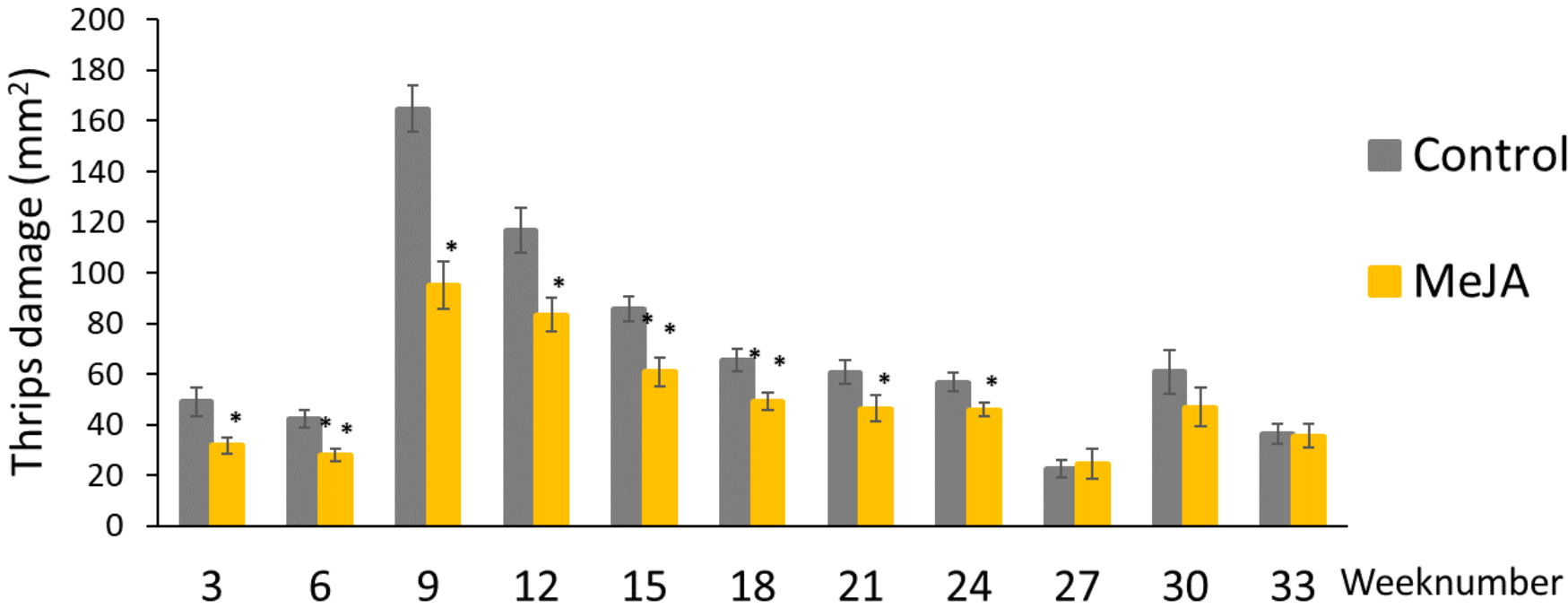
Moneymaker



Jasmonzuur opkweek en productie



Delissimo

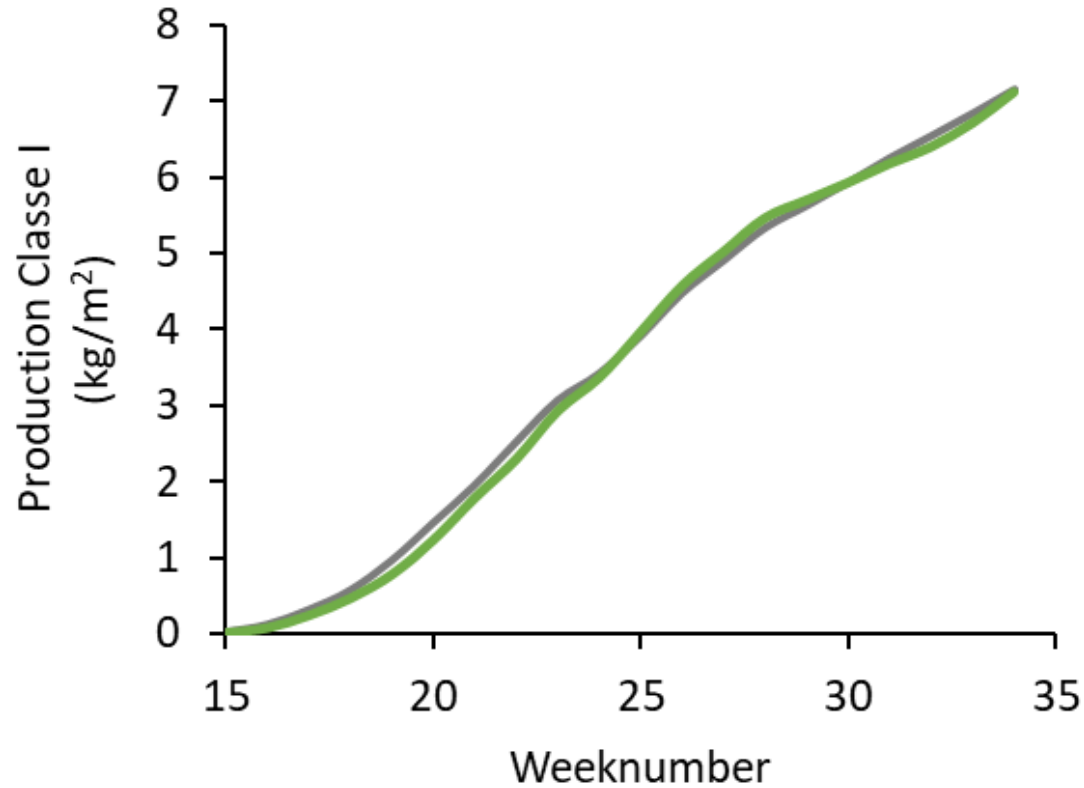


Mouden, Leiss et al. 20 Front. Plant Sci.

Jasmonzuur opkweek en productie



Delissimo



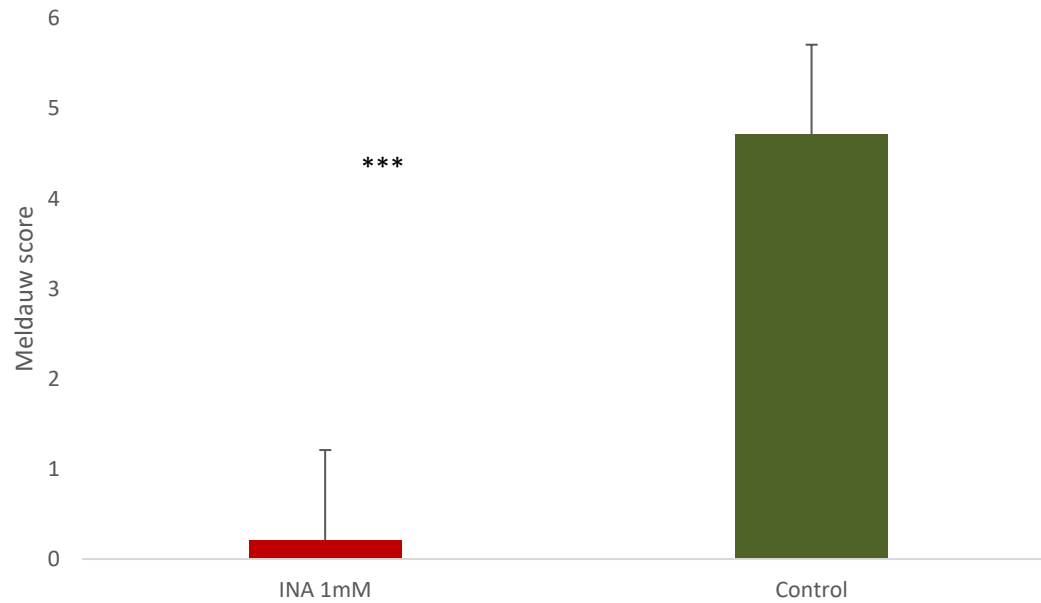
— Control
— MeJA

Mouden, Leiss et al. 2021 Front. Plant Sci.

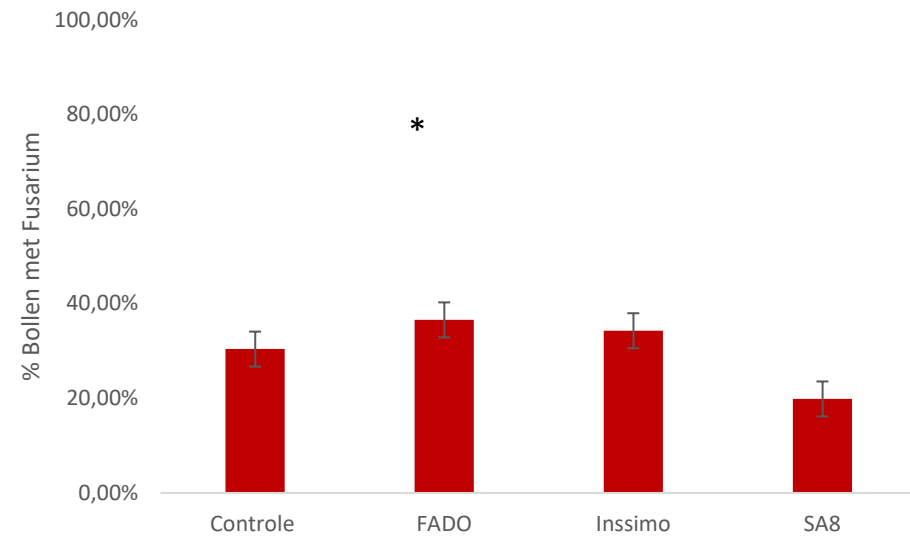
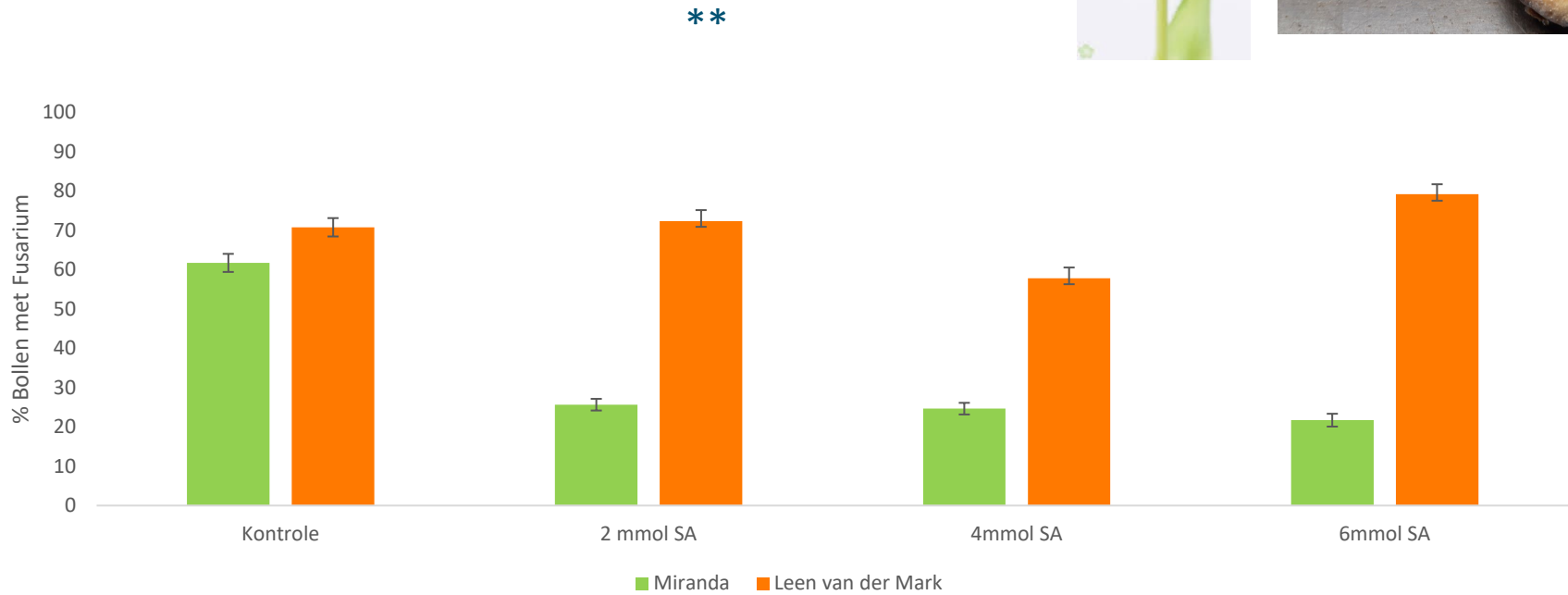
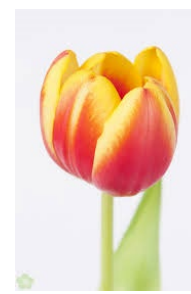
Salicylzuur



Grand Bolstar



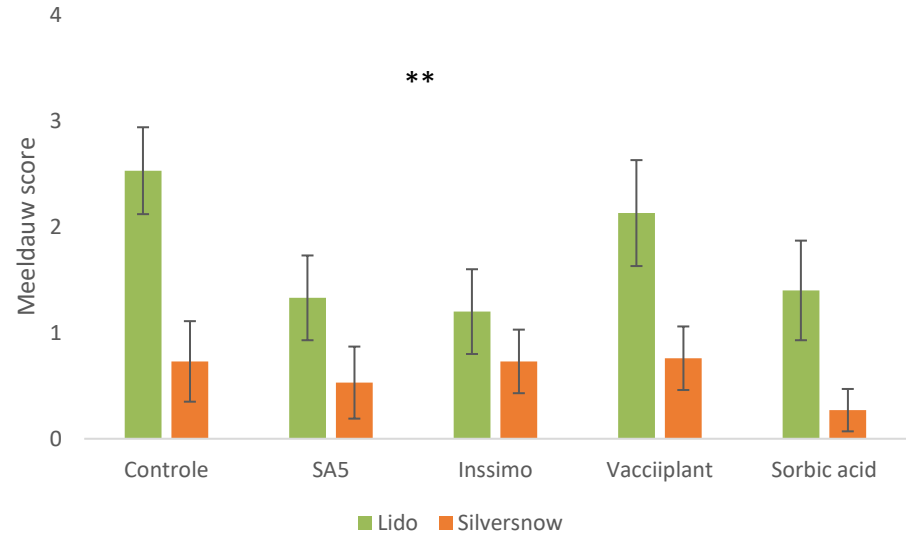
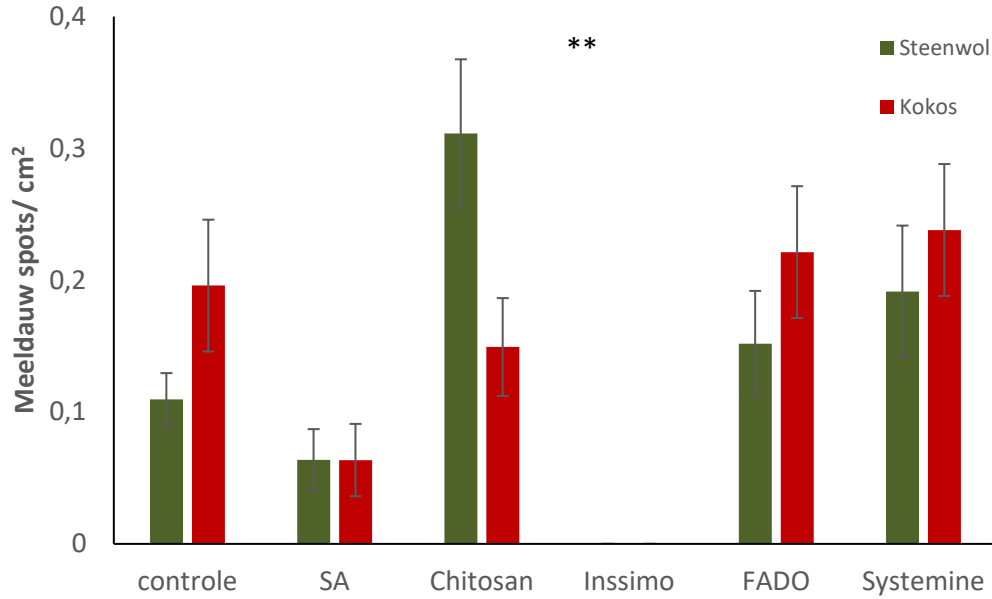
Salicylzuur



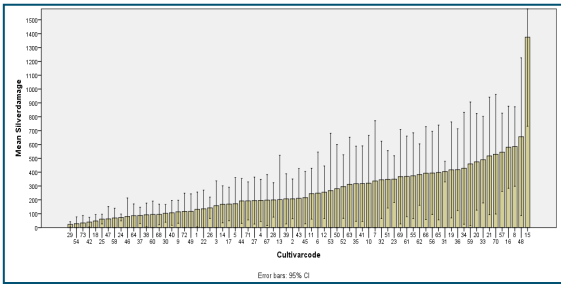
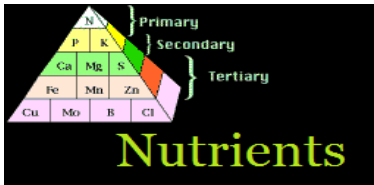
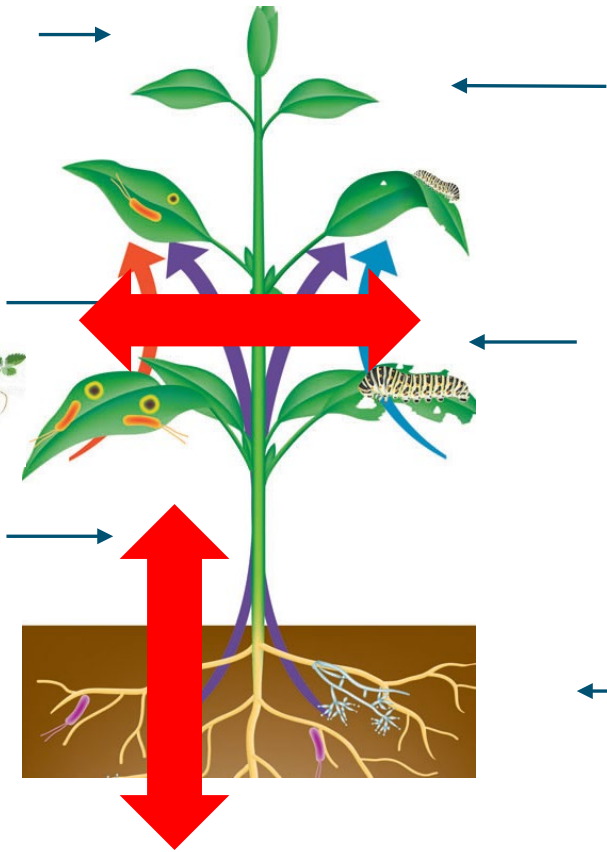
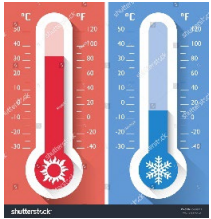
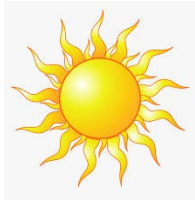
Salicylzuur



Moneymaker



Weerbaar teeltsysteem

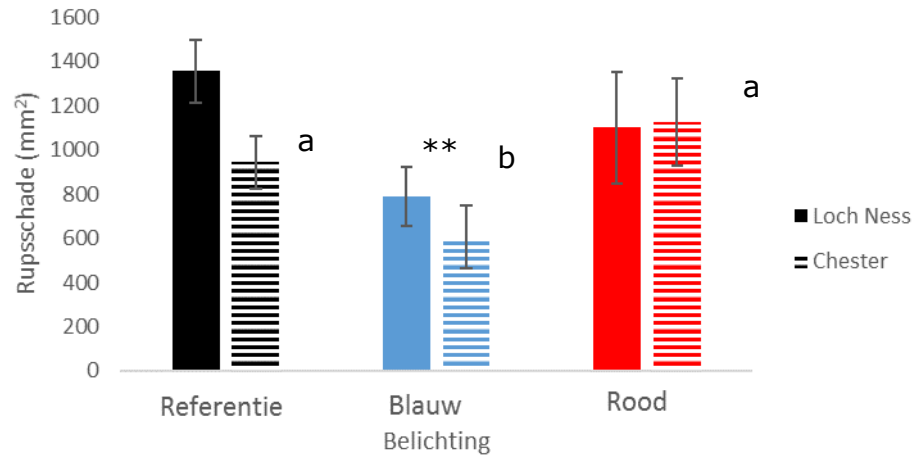


Licht

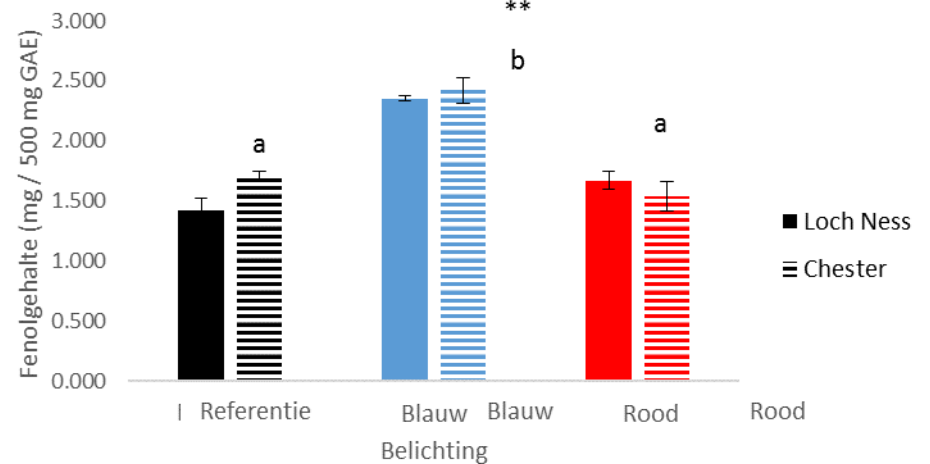


Turkse mot

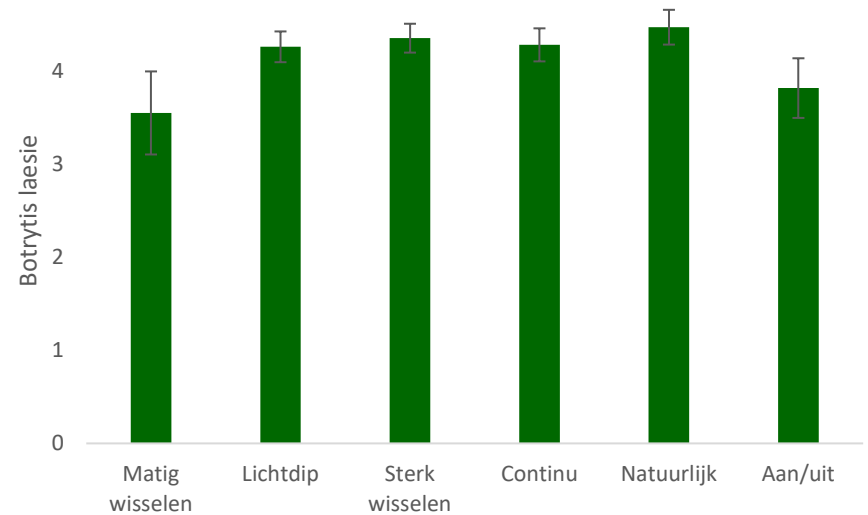
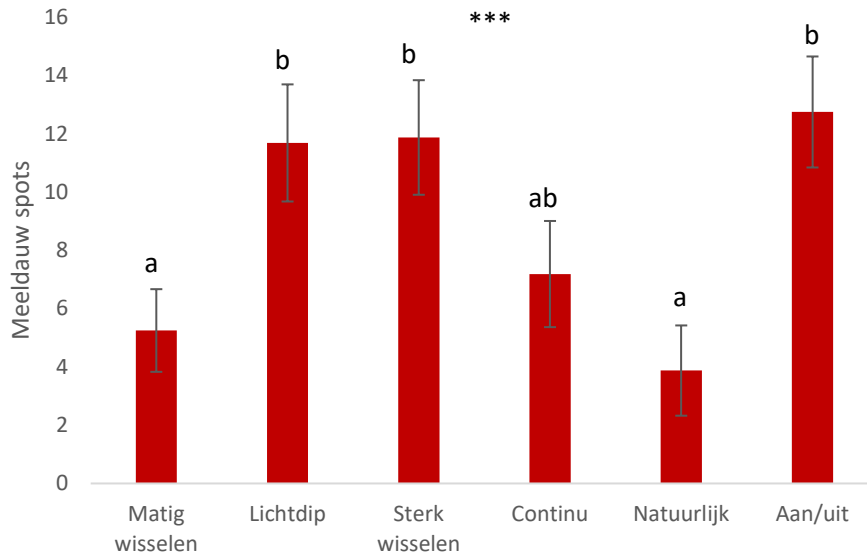
Rupsschade per ras en lichtbehandeling



Totaal fenolgehalte per ras en lichtbehandeling



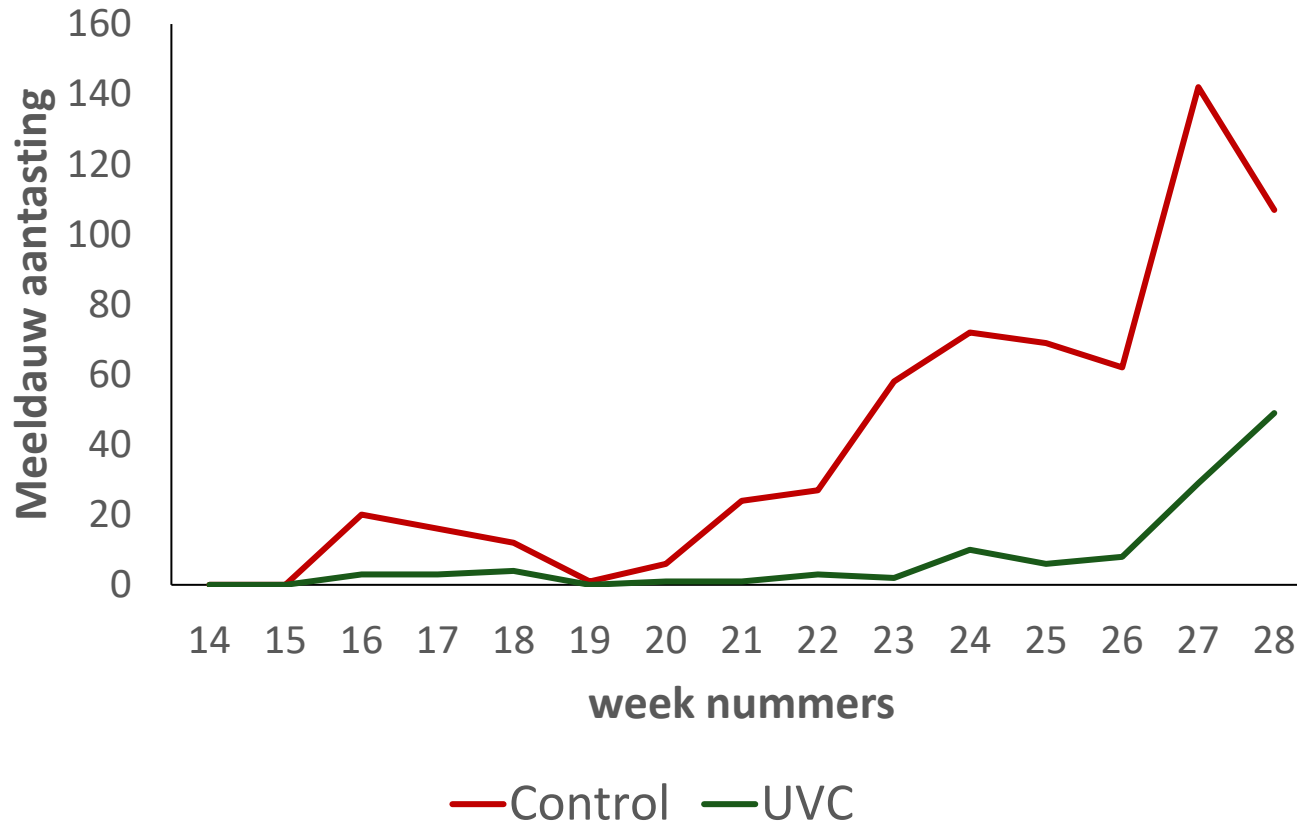
Licht



UV-C



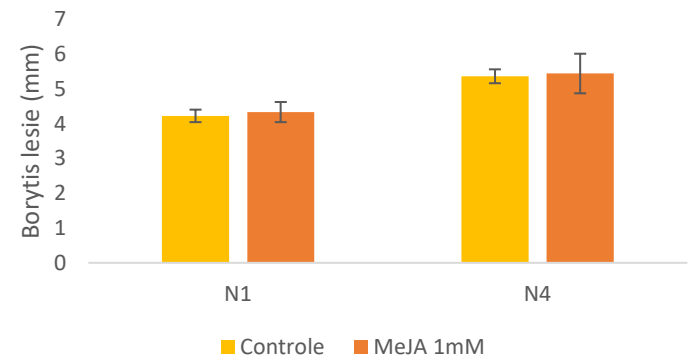
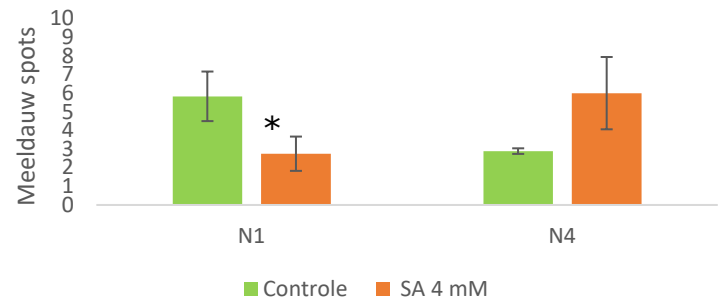
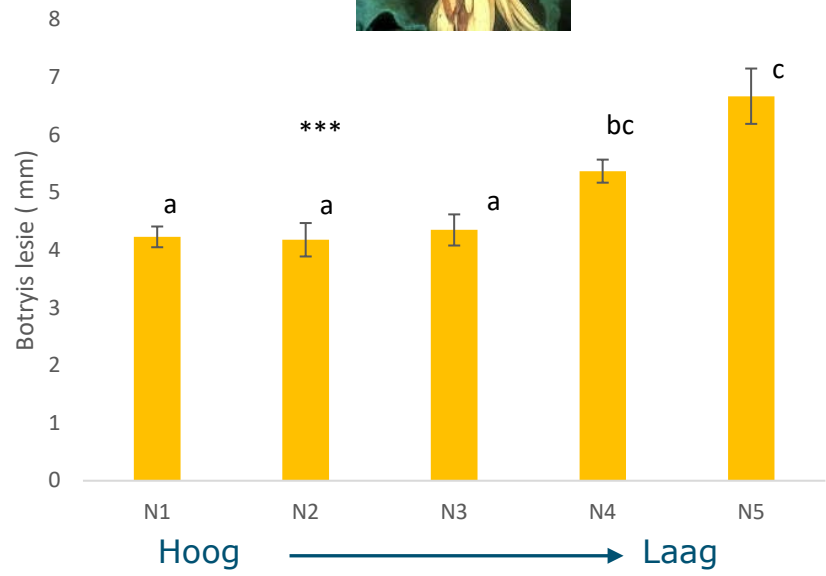
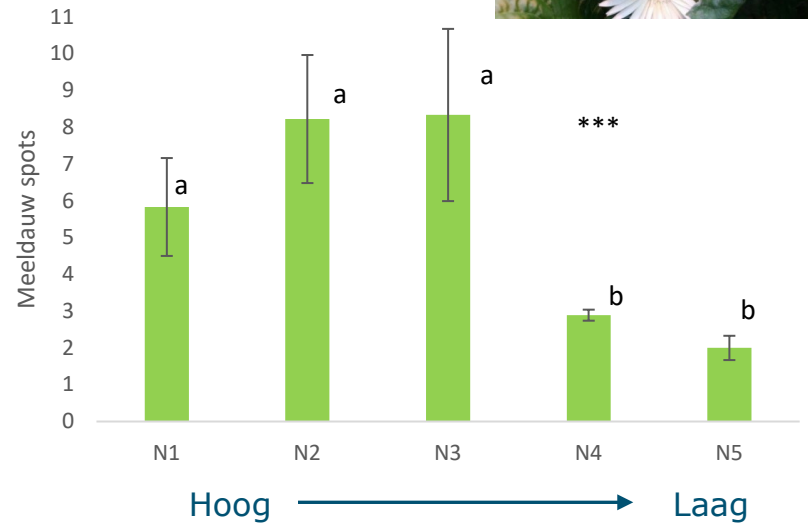
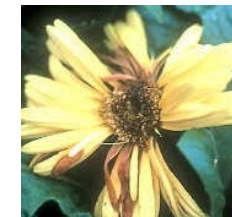
Delissimo



Nutrienten



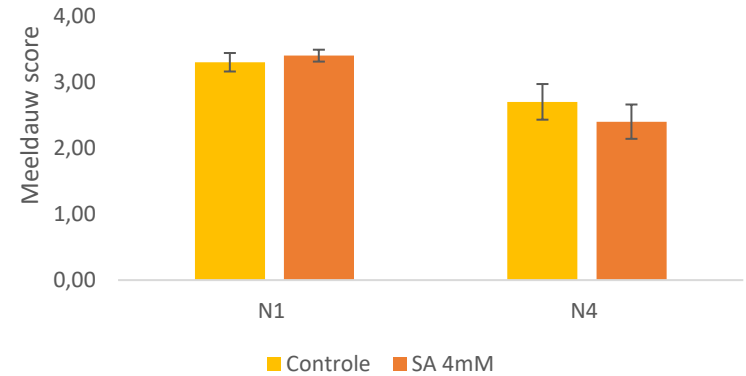
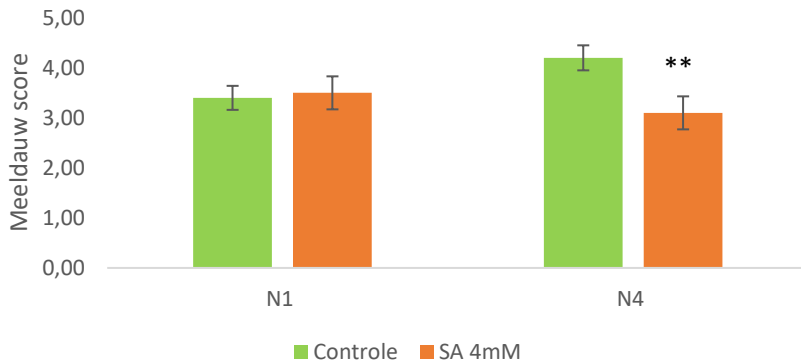
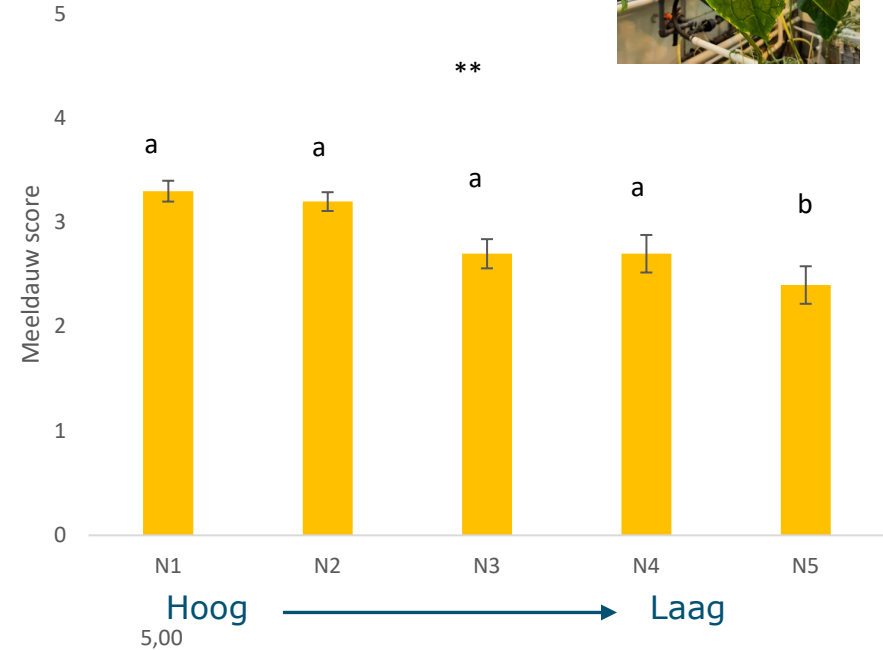
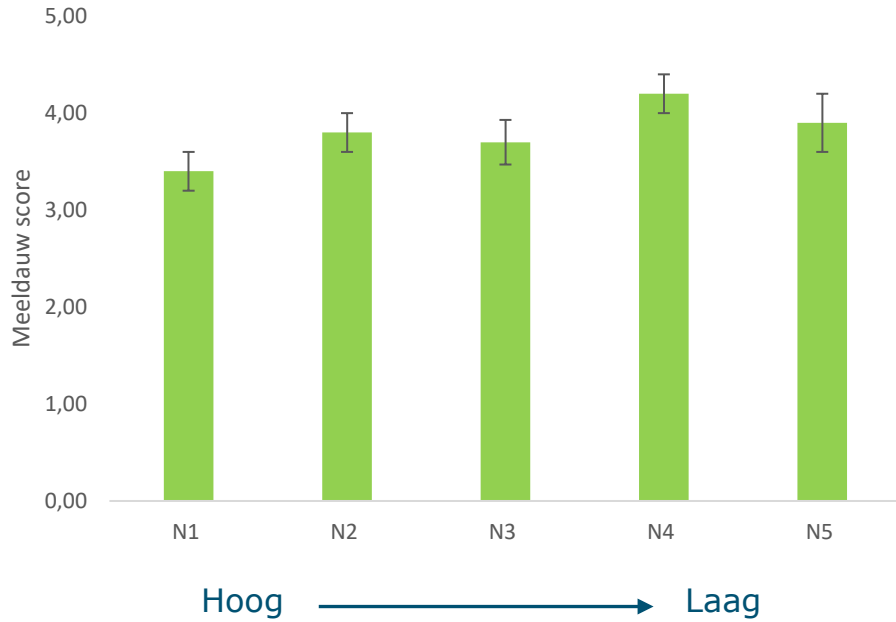
Kimsey



Nutrienten/gewasstadium



High Power

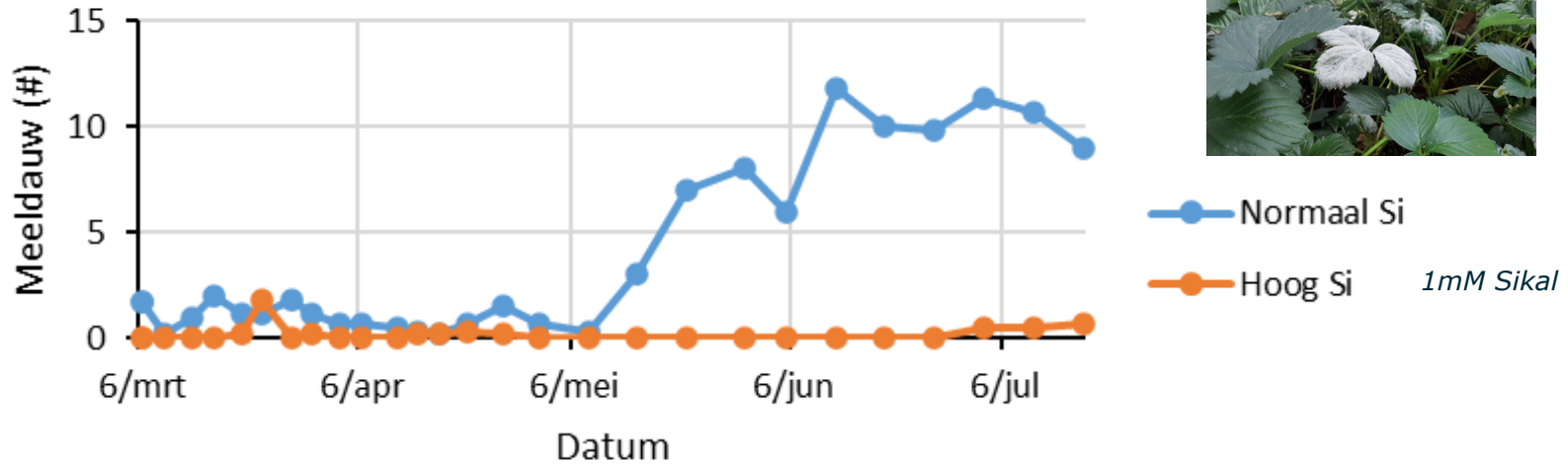


Nutrienten

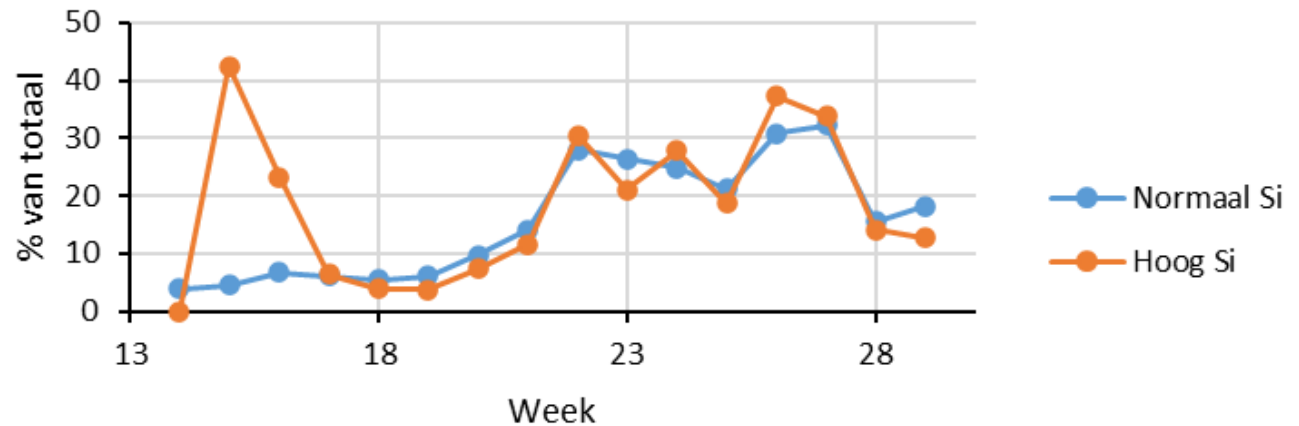


Delissimo

Meeldauw op het blad



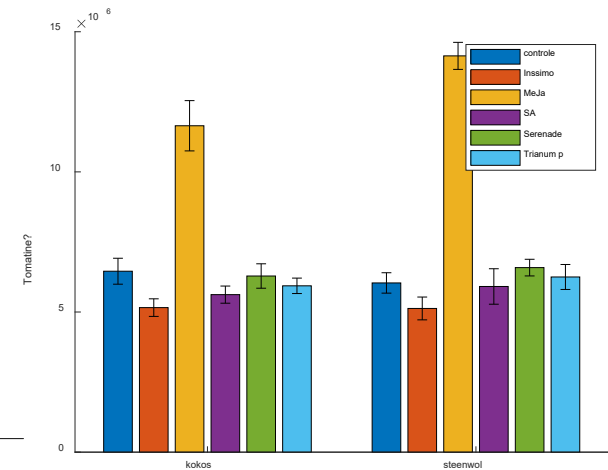
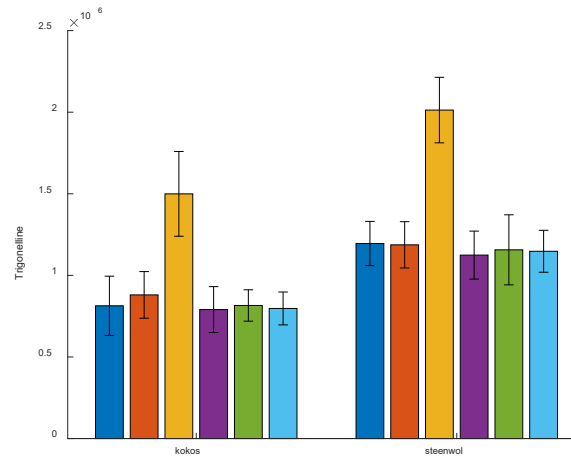
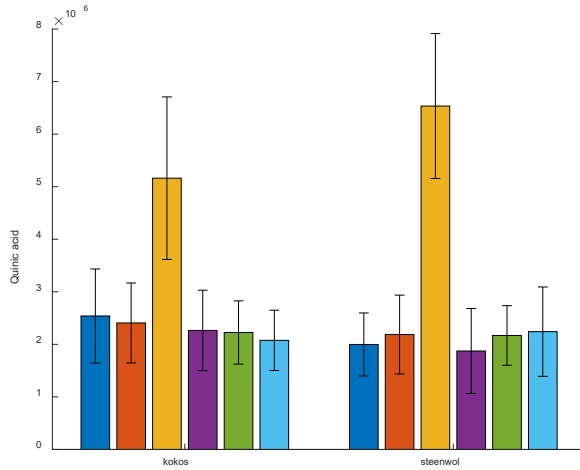
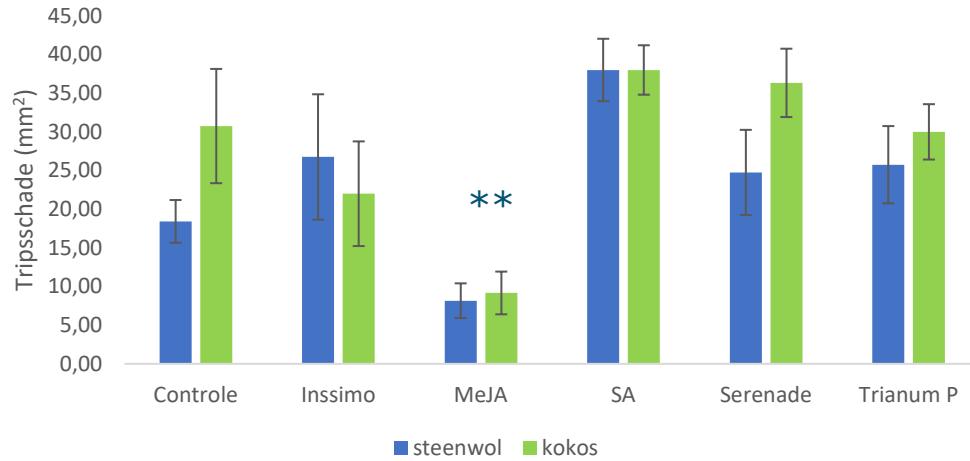
Meeldauw op de vruchten



Substraat



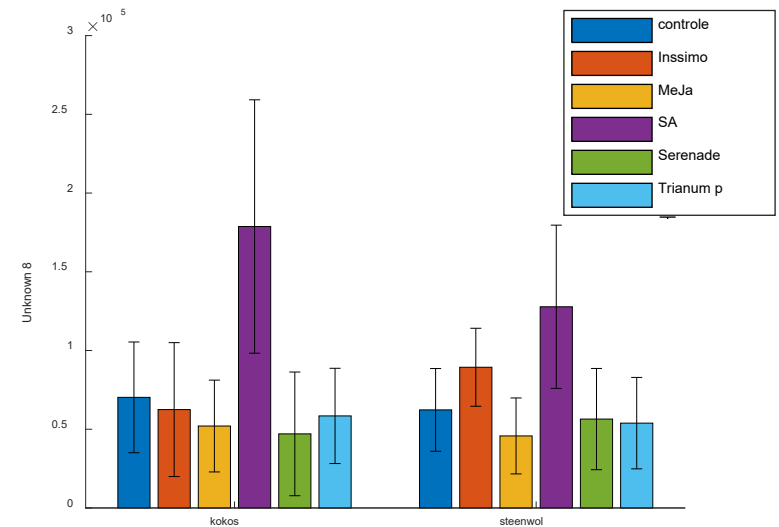
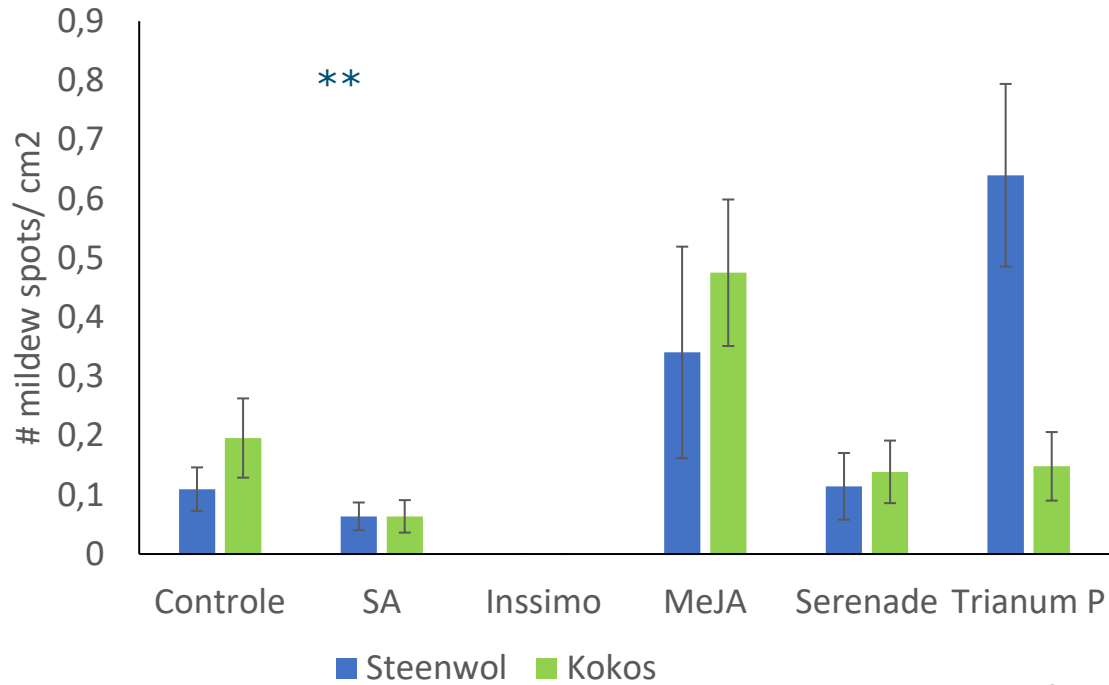
Moneymaker



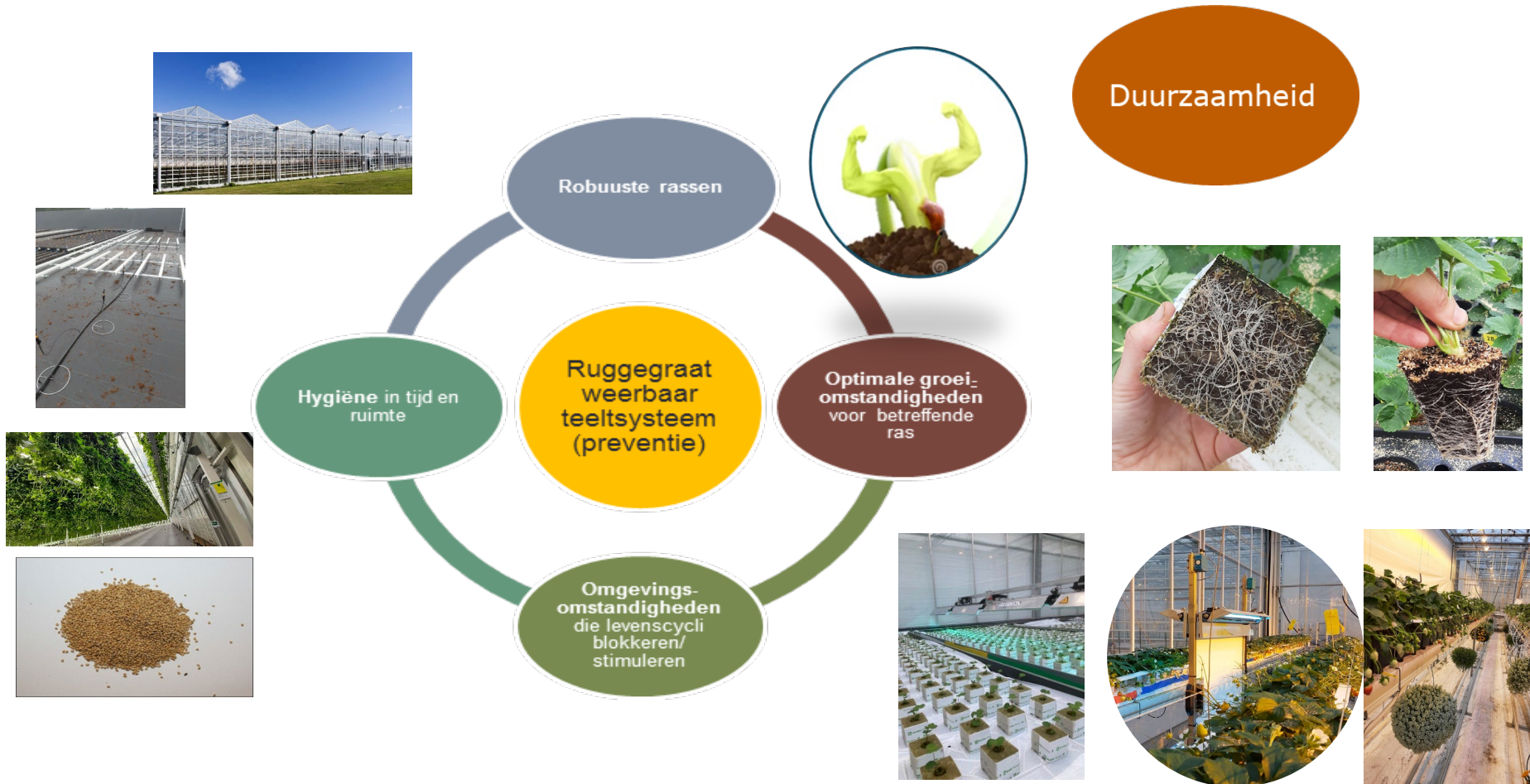
Substraat



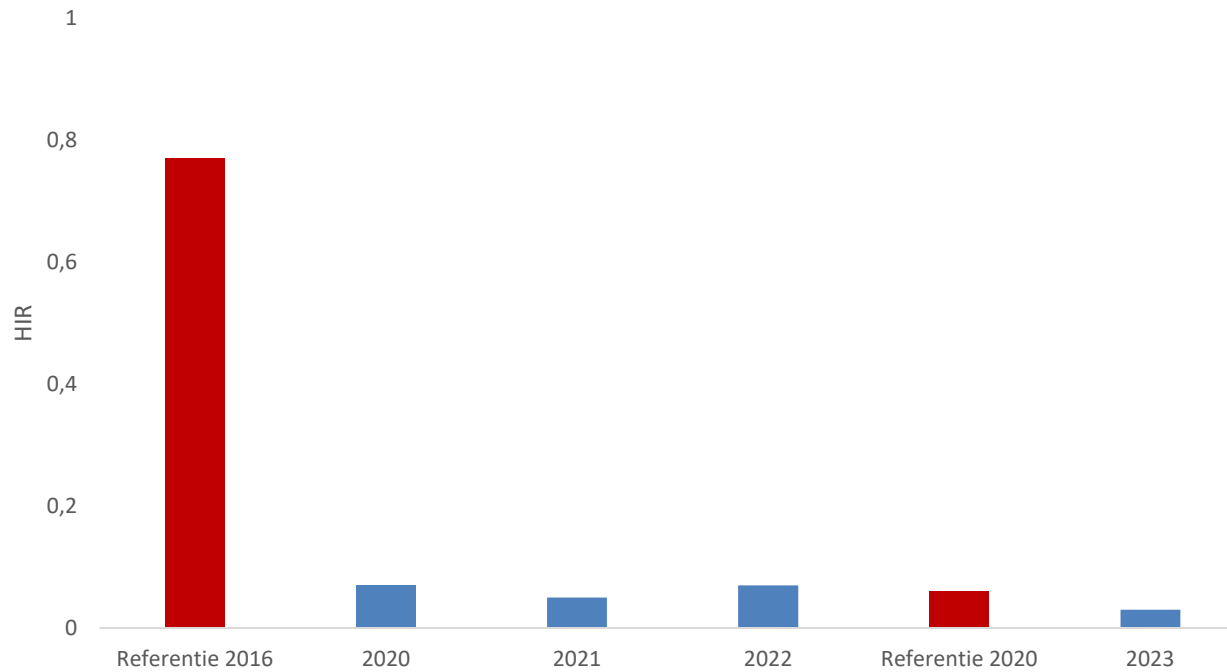
Moneymaker



Weerbaar teeltsysteem aardbei



Milieu impact



Economische Impact



Totale kosten €/m²	2021	2022	2023
	-0.37	-3.09	-17.78

Maatwerk

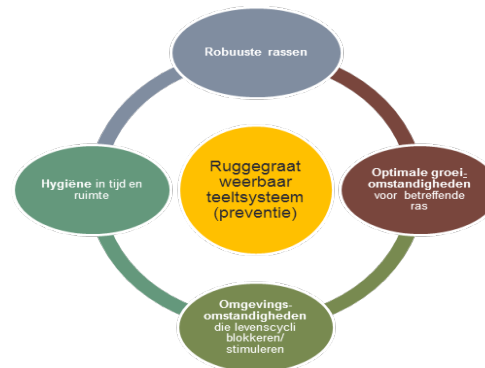
- Preventief



- Generieke concepten; variabele uitkomsten



- Inpassen in IPM, CPM



Dank



WAGENINGEN
UNIVERSITY & RESEARCH
GLASTUINBOUW
CLUB VAN 100
LEADING IN HORTICULTURAL INNOVATION



TOPSECTOR
TUINBOUW & UITGANGSMATERIALEN



Ministerie van Landbouw,
Natuur en Voedselkwaliteit