

Preferred CRO in the EU North Zone within field research and regulatory consulting



Independent
**Regulatory Consulting
& Field Research**



Presence in EU North



Owned or operated Field Stations in Denmark, Sweden, Latvia & Lithuania ●
Collaboration with other CROs in Finland, Estonia and Norway ▲



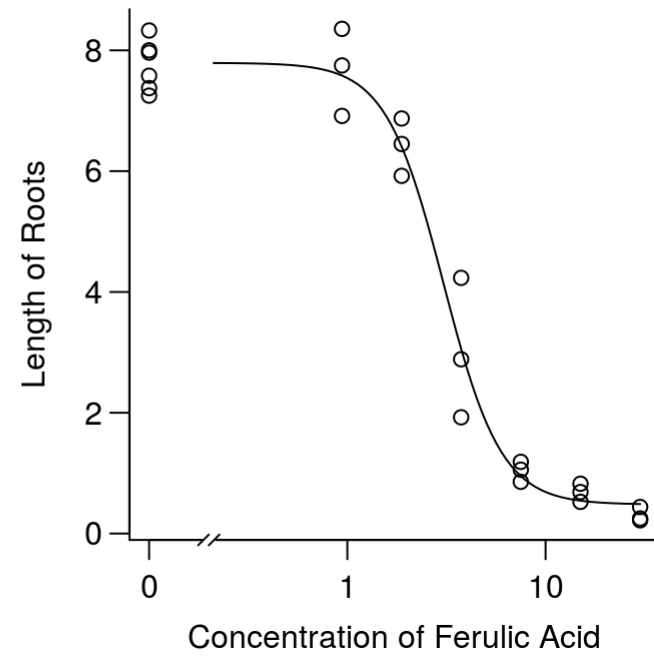
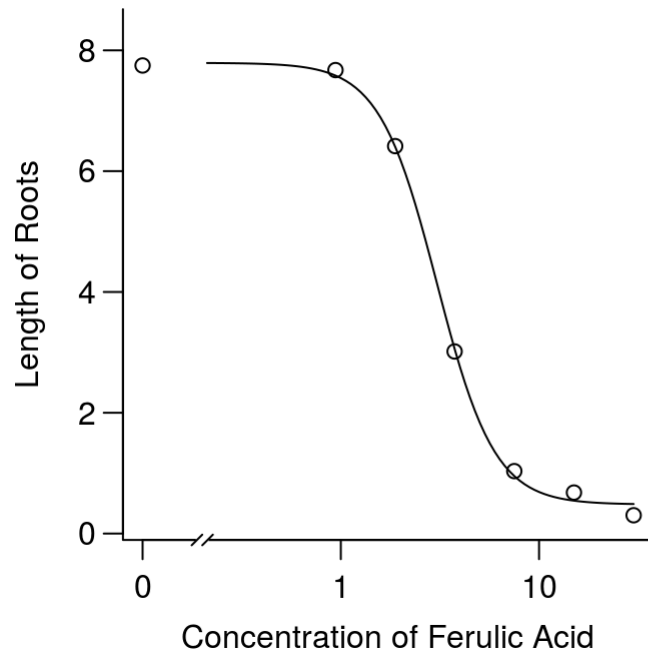
Dose – response with log-logistic curves

- One of the most common curves is the symmetric log-logistic model:

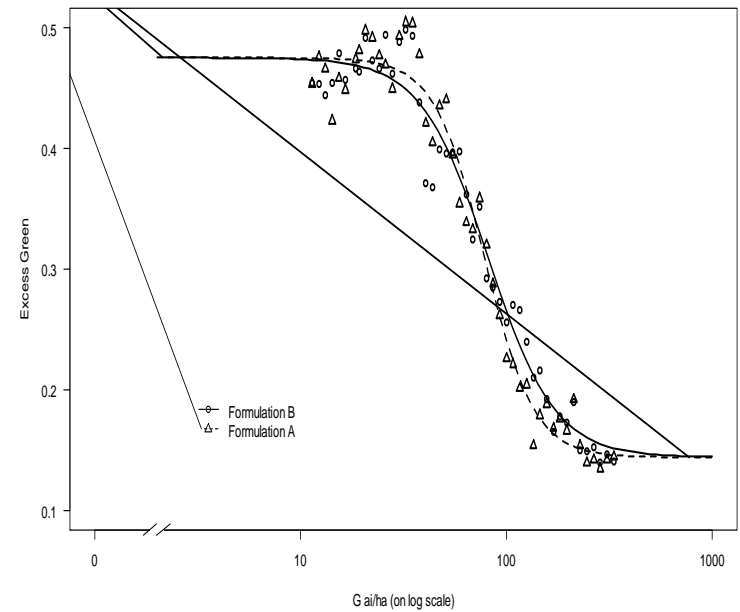
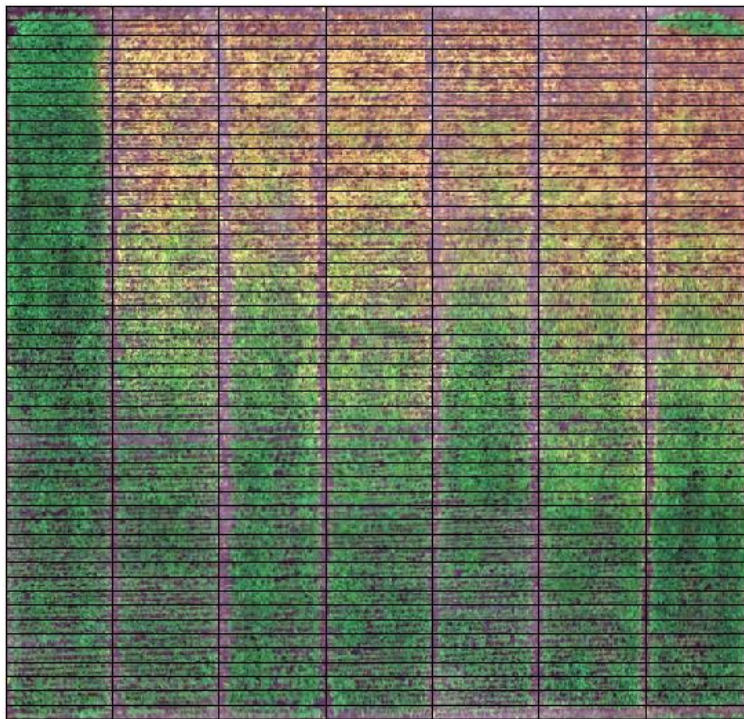
$$y = c + \frac{d - c}{1 + \exp(b(\log(x) - \log(ED50)))}$$

- y is the response, c denotes the lower limit of the response when the dose x approaches infinity; d is the upper limit when the dose x approaches 0. b denotes the slope around the point of inflection, which is the $ED50$, i.e. the dose required to reduce the response half-way between the upper and lower limit.

Dose-response with Log-logistic curves



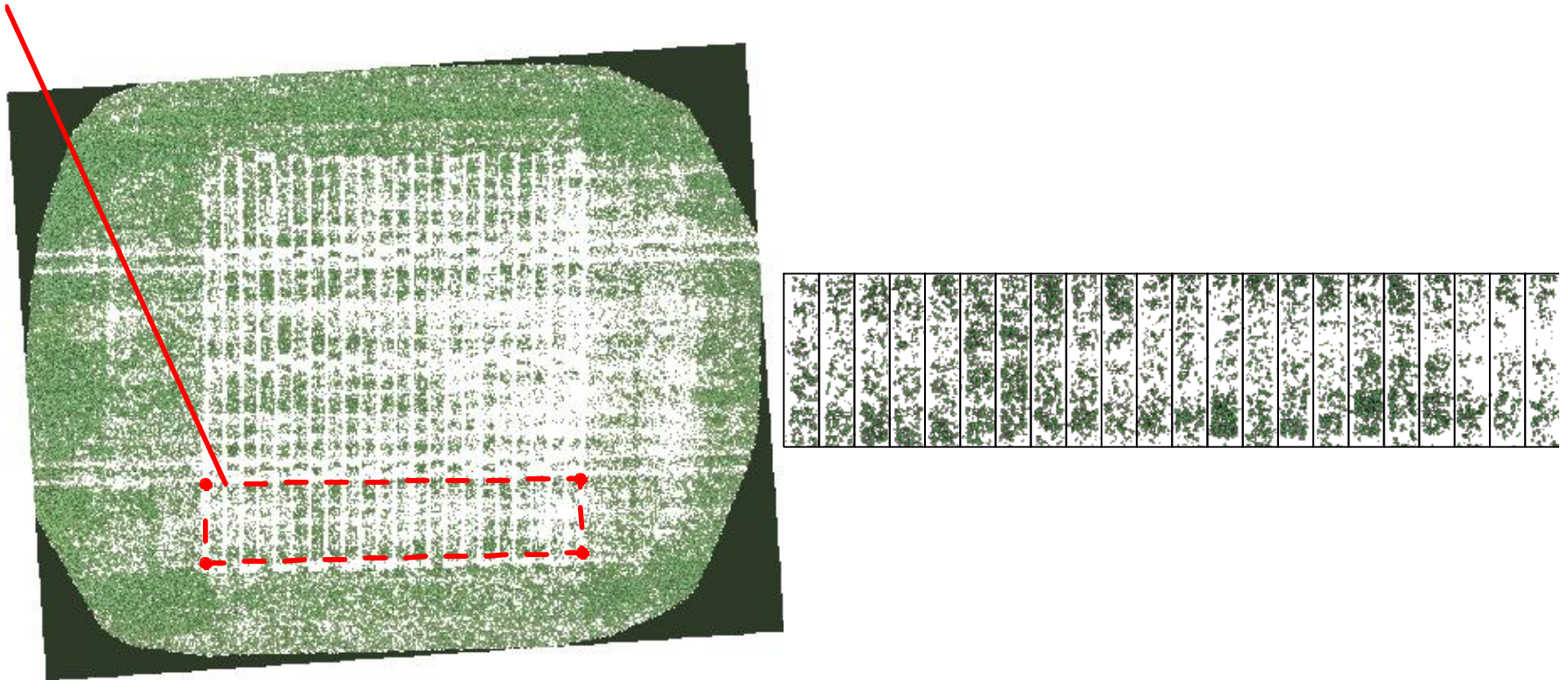
Dose-response in trials with logarithmic application



Seed treatment insects in oil seed rape

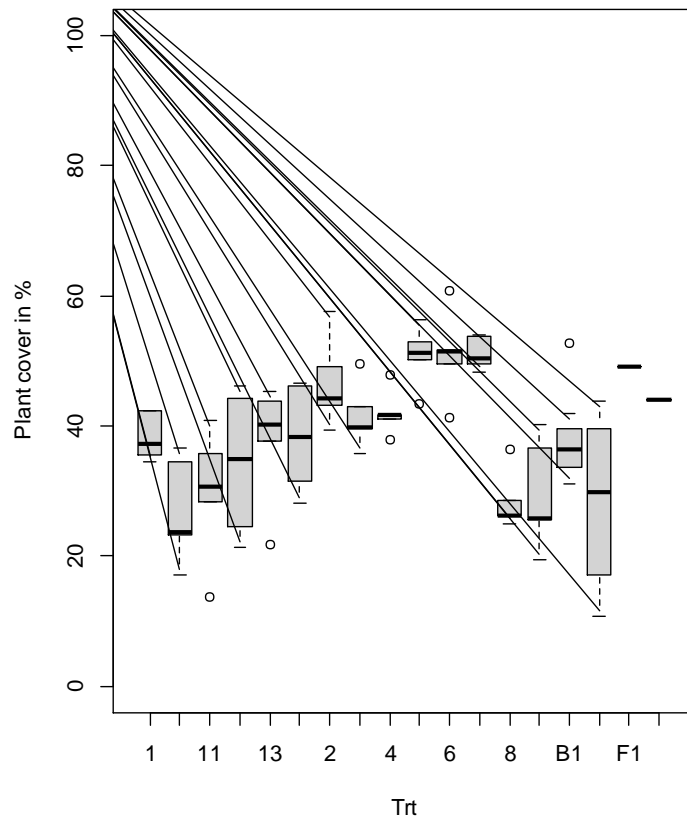


Segmentation – removing the soil

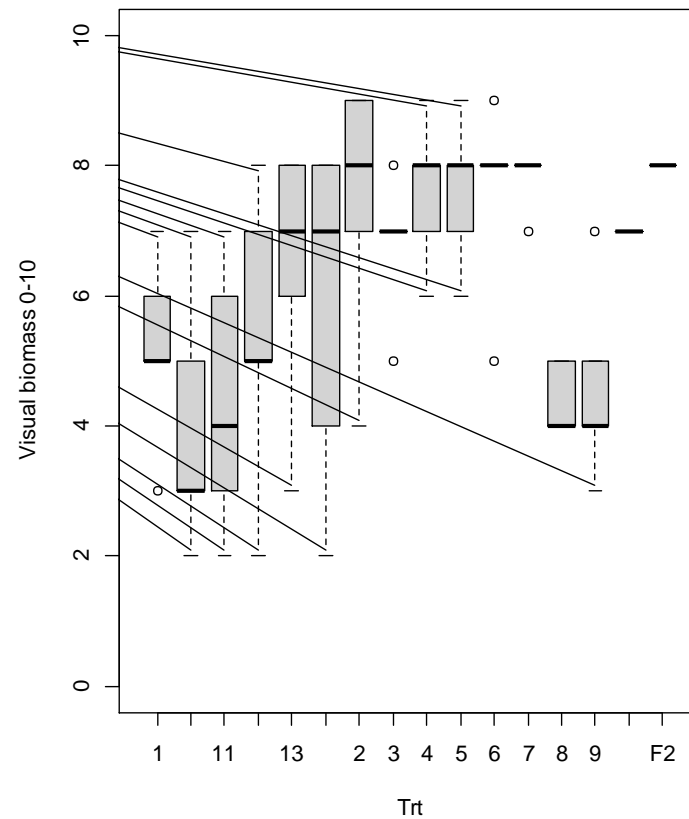


Digital assesment of crop cover VS visual assesment of biomass

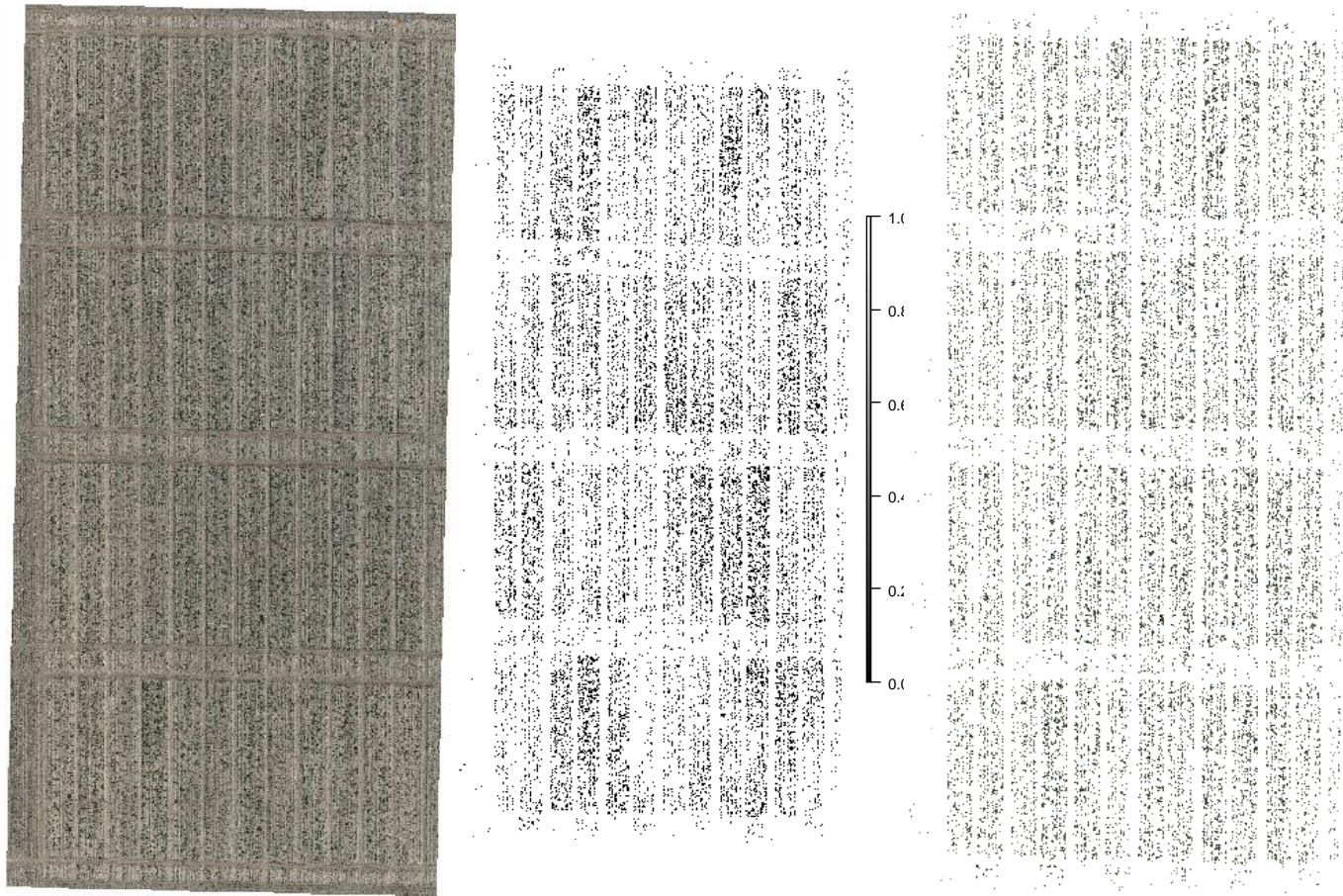
Plant cover in % by Drone

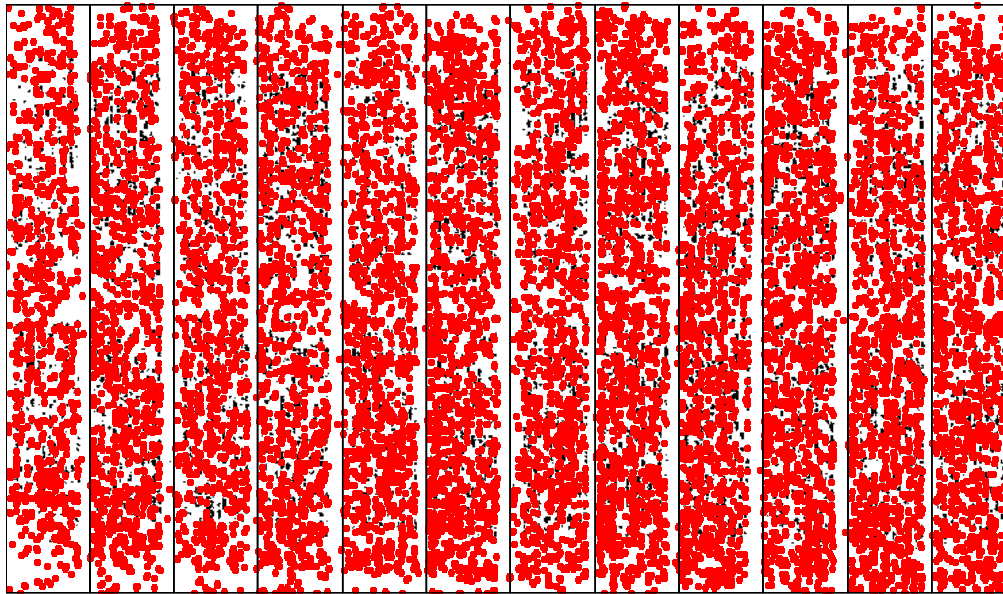


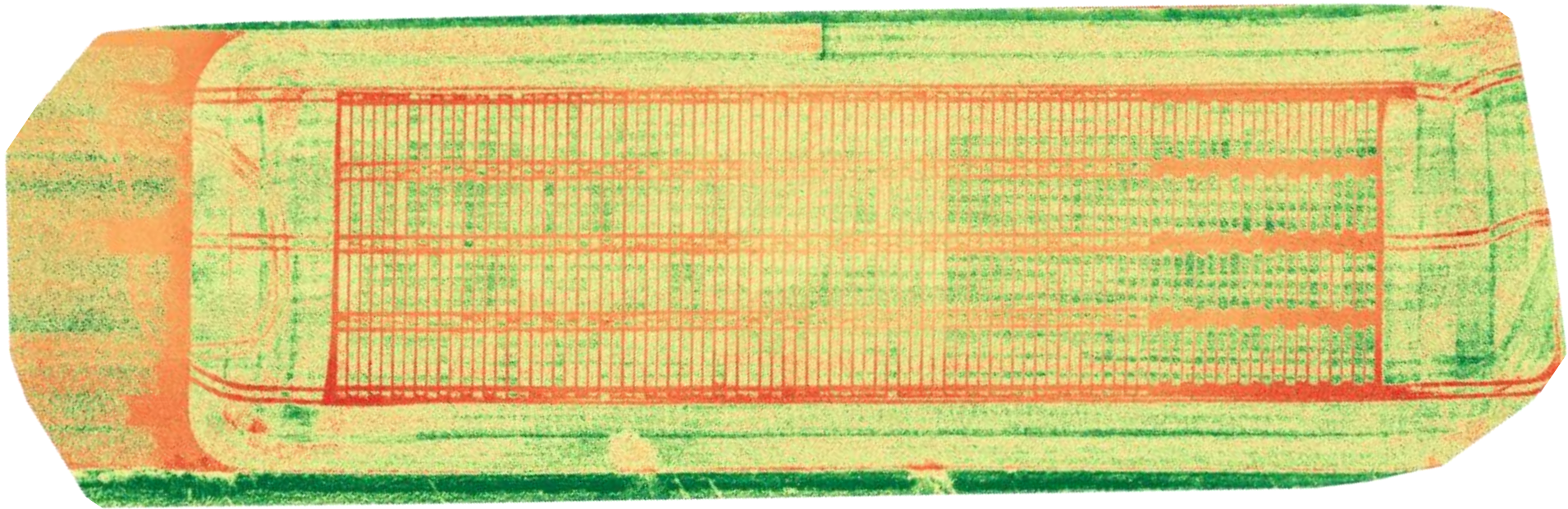
Visual biomass in field assessment



Plant count and cover with drones







FieldImageR – a package for R to extract information from pictures

- <https://github.com/OpenDroneMap/FIELDImageR>
- <https://github.com/filipematias23/FIELDImageR.Extra>
- <https://www.opendronemap.org/webodm/>
- DRC package for log-logistic curves
- <https://cran.r-project.org/web/packages/drc/index.html>
- <https://rstats4ag.org/dose-response-curves.html>
- <https://cran.r-project.org/web/packages/drc/drc.pdf>