

Results of *Apera spica venti*  
resistance investigations in Lithuania

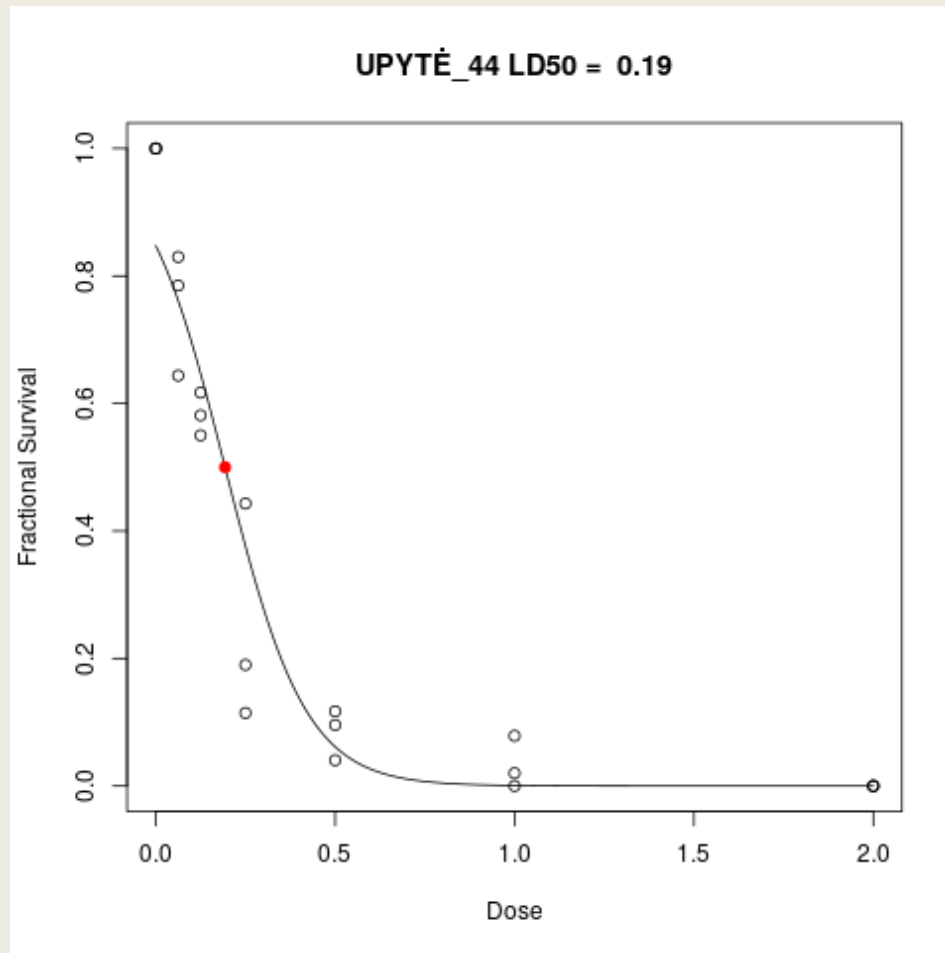
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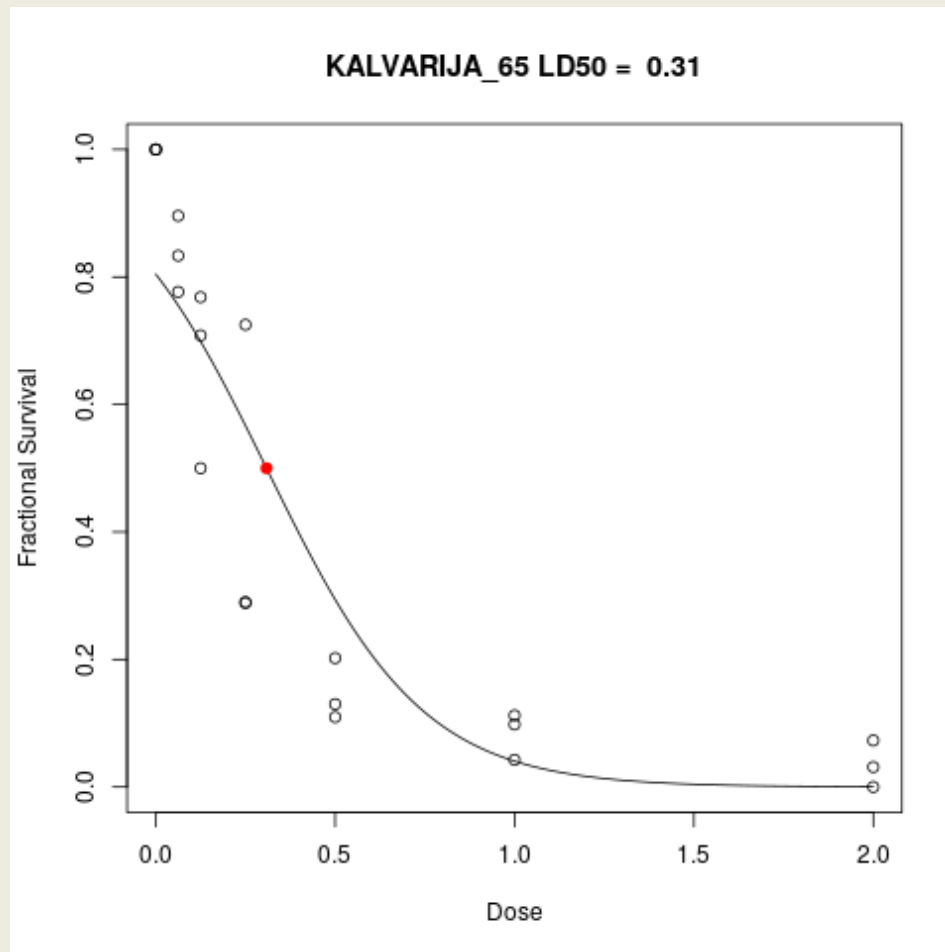
# Activities

- Dose response for 3 Apera populations
- Resistance testing of 30 Apera populations
- Genetic analysis

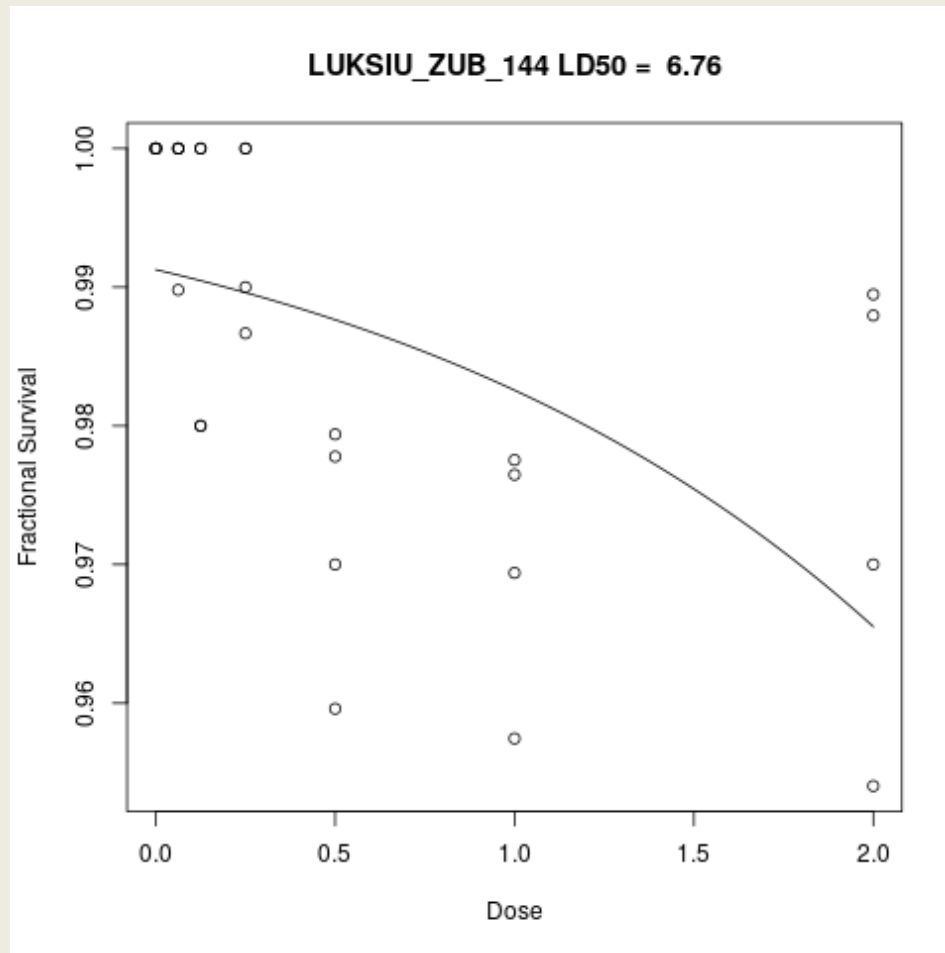
# LD 50 of *A. spica venti* population from Upyte

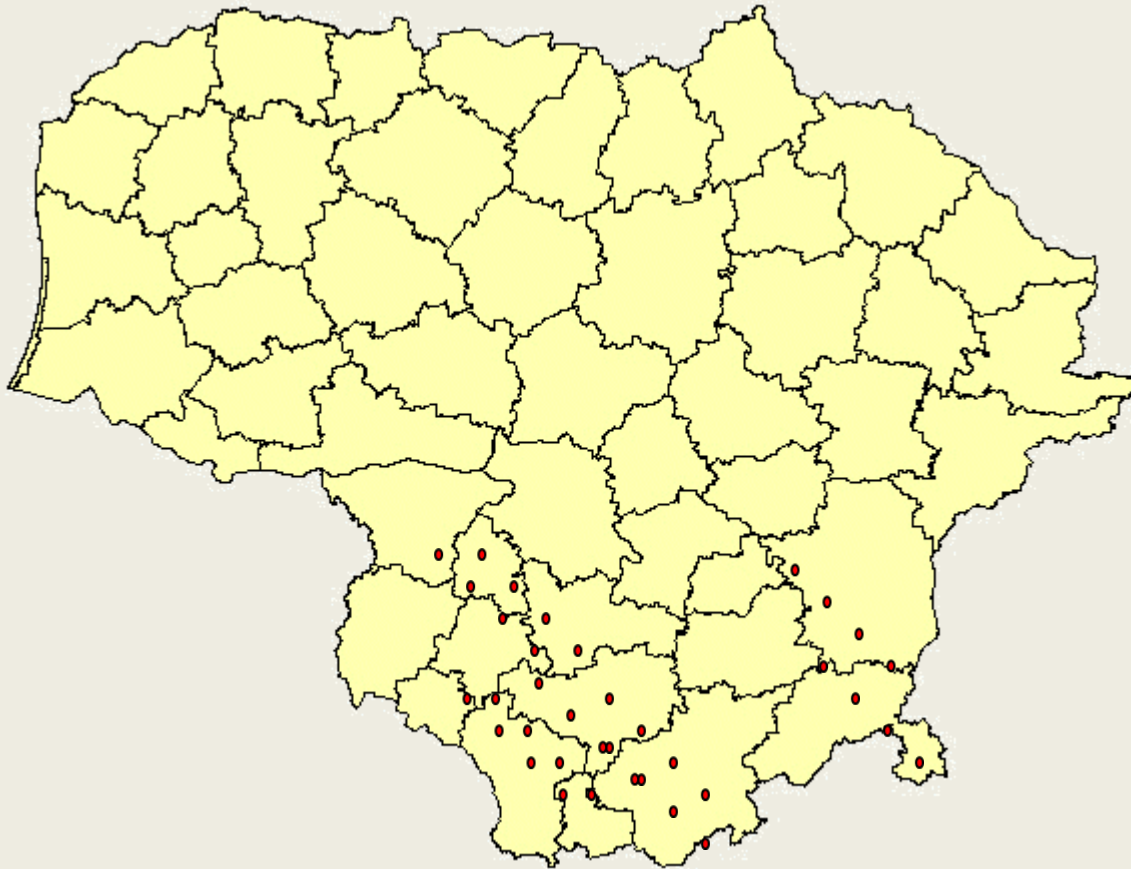


# LD 50 of *A. spica venti* population from Kalvarija



# LD 50 of *A. spica venti* population from Lukšiai





30 *Apera spica-venti* populations were taken from Central and South part of LT for testing of resistance

# Trial scheme

- Untreated
- Pinoxaden
- Iodosulfuron
- Sulphosulphuron
- Pyroxulam

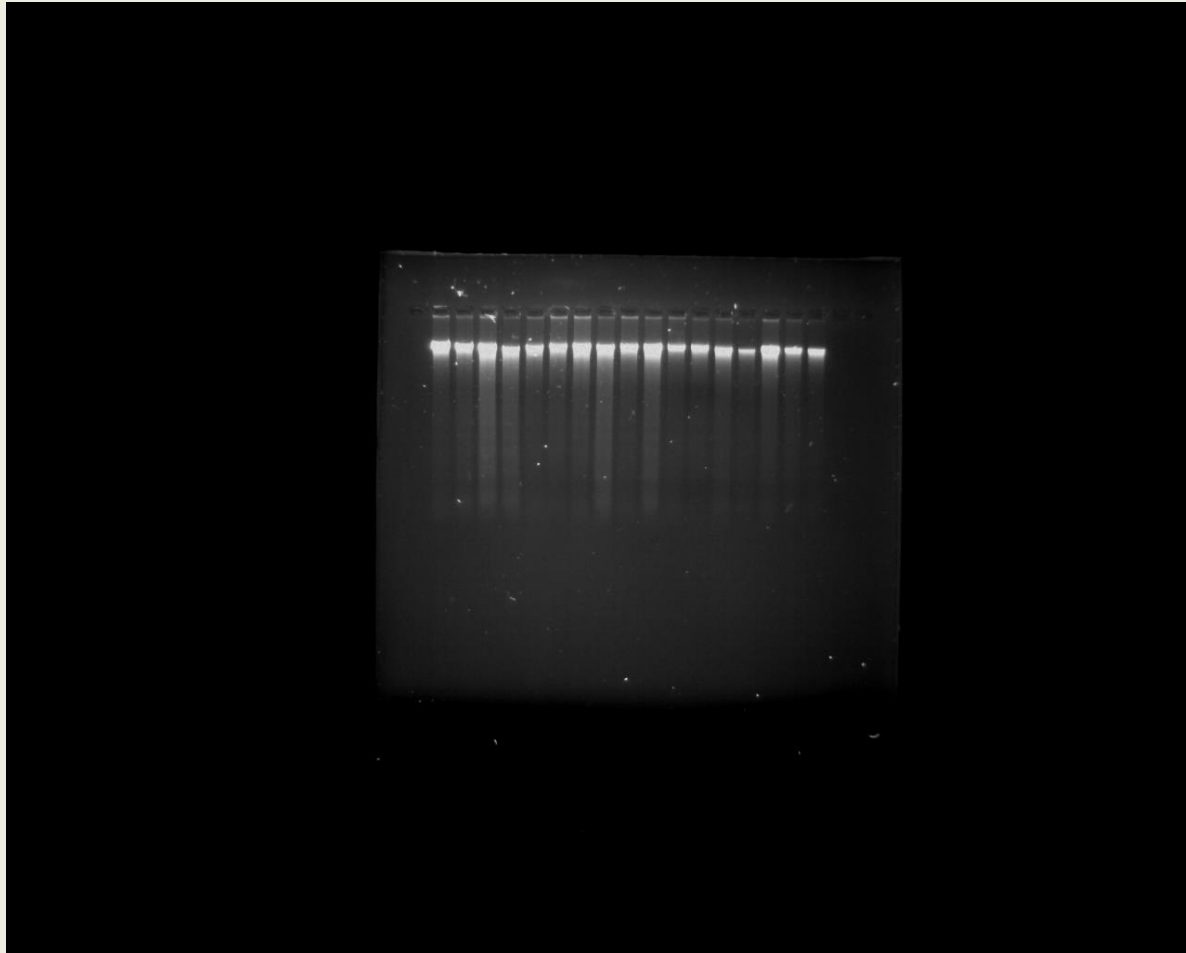
At recommendet rates

# Results

- From 30 populations
- 7 resistant, one from them to 3 a.i. (ALS inhibitors)
- 5 populations to 2 a.i. (iodosulphuron and sulphosulphuron)

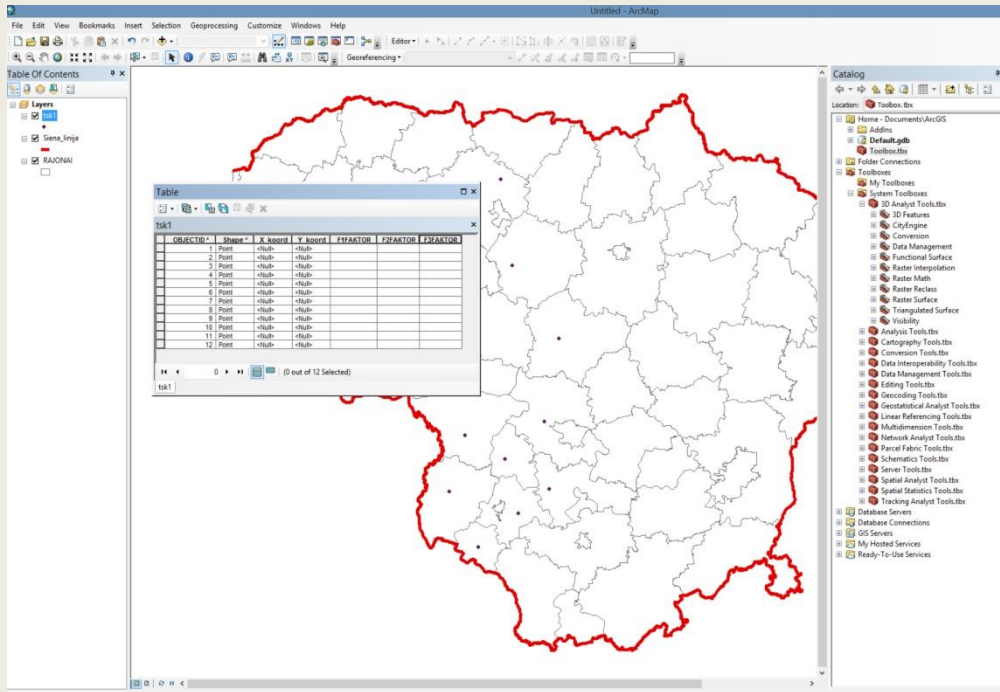


# Electrophoresis



# Foreseeable

- Dose response for resistant populations 7 + standards (1 sensitive and 1 resistant)
- Further investigations for disposable populations (about 50)
- Genetic analysis – PCR.



Thank you for your attention