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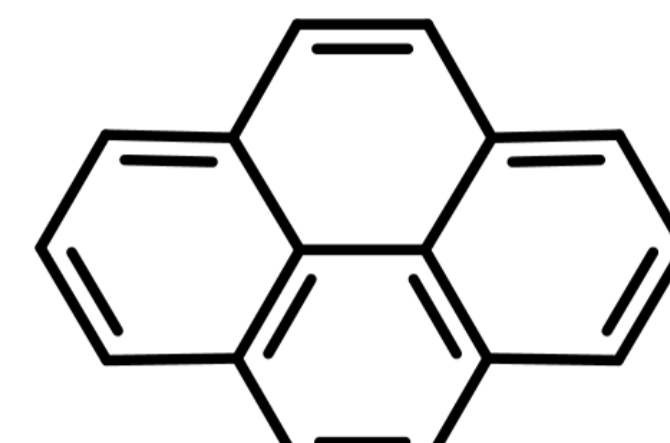
Introduction

ECOLOGICAL RISK ASSESSMENT

Ecological interactions?

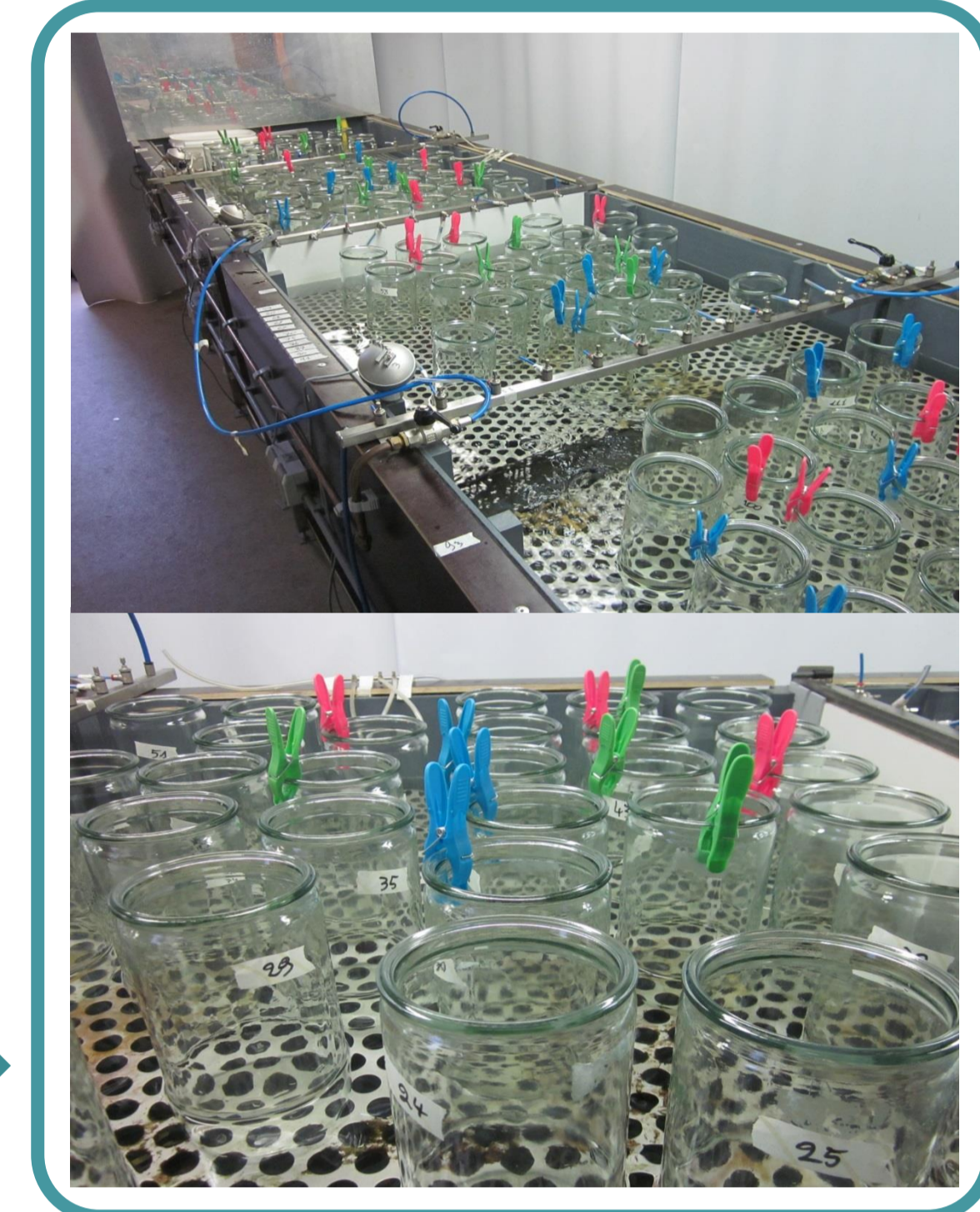
Competition: intraspecific + interspecific
Predation

Materials & Methods



Pyrene

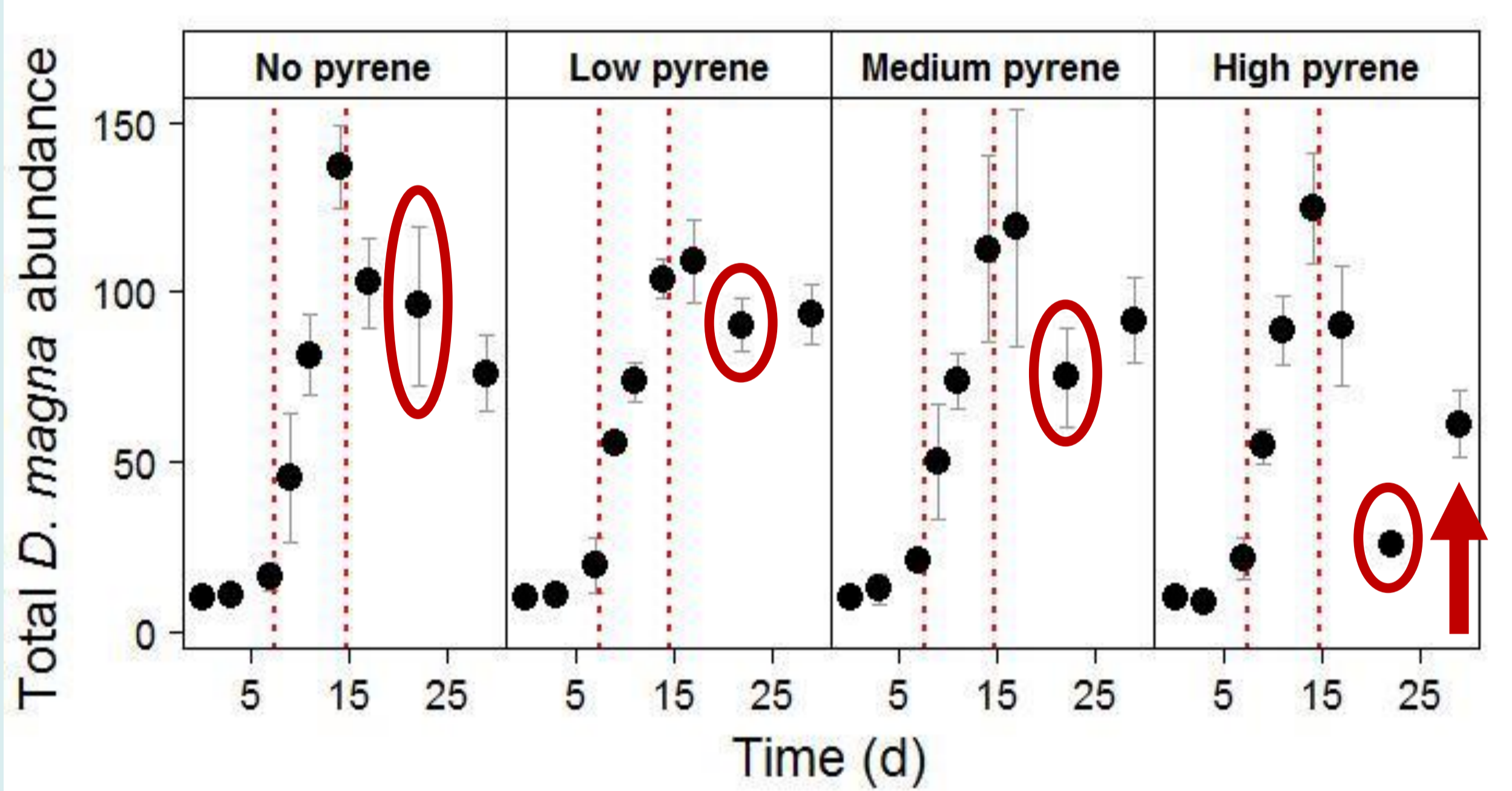
Exposure	Day 7	Day 15
Low	10 µg·L ⁻¹	20 µg·L ⁻¹
Medium	25 µg·L ⁻¹	50 µg·L ⁻¹
High	75 µg·L ⁻¹	150 µg·L ⁻¹



Data analysis (GLM)

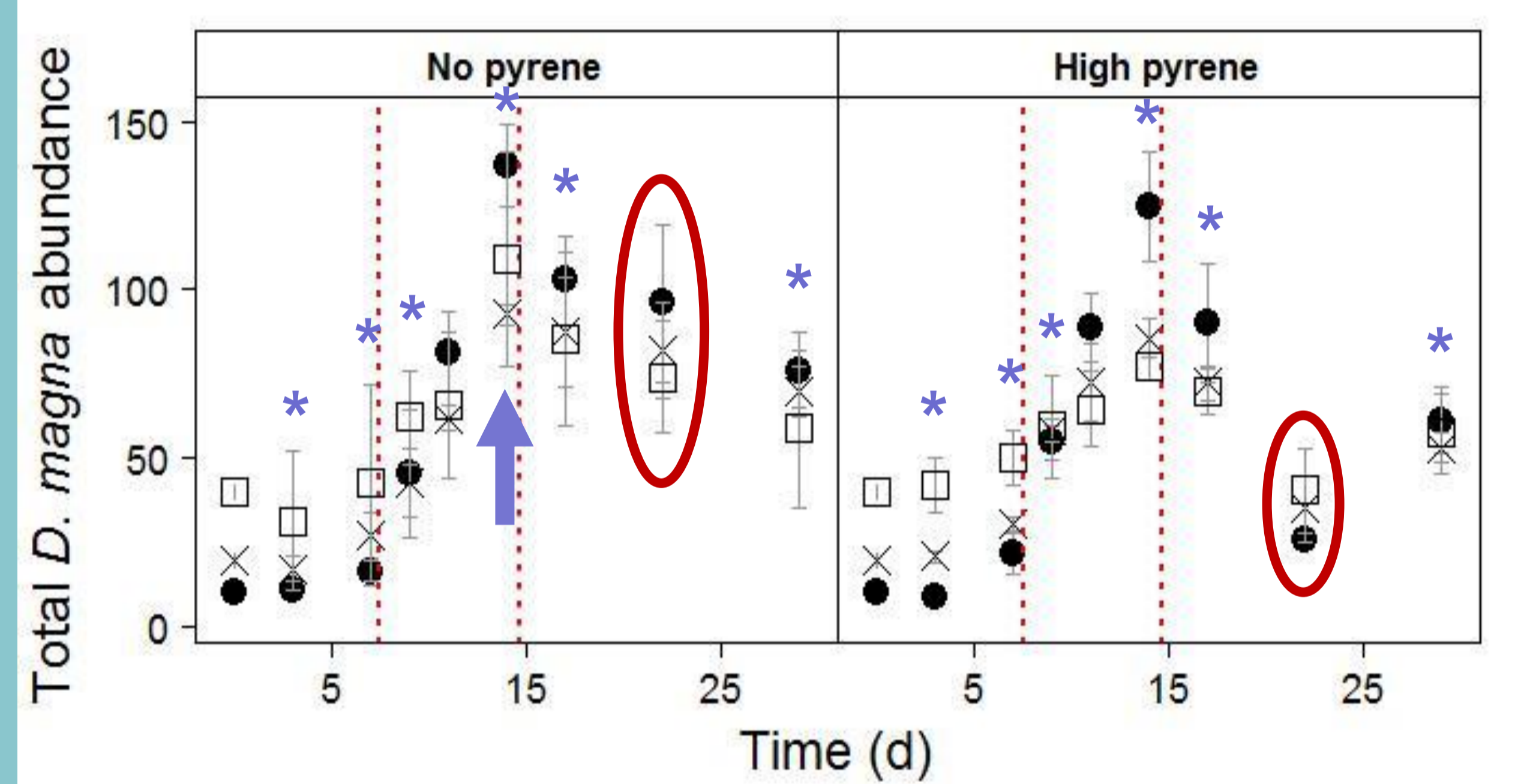
Results & Discussion

NO PREDATION, NO COMPETITION



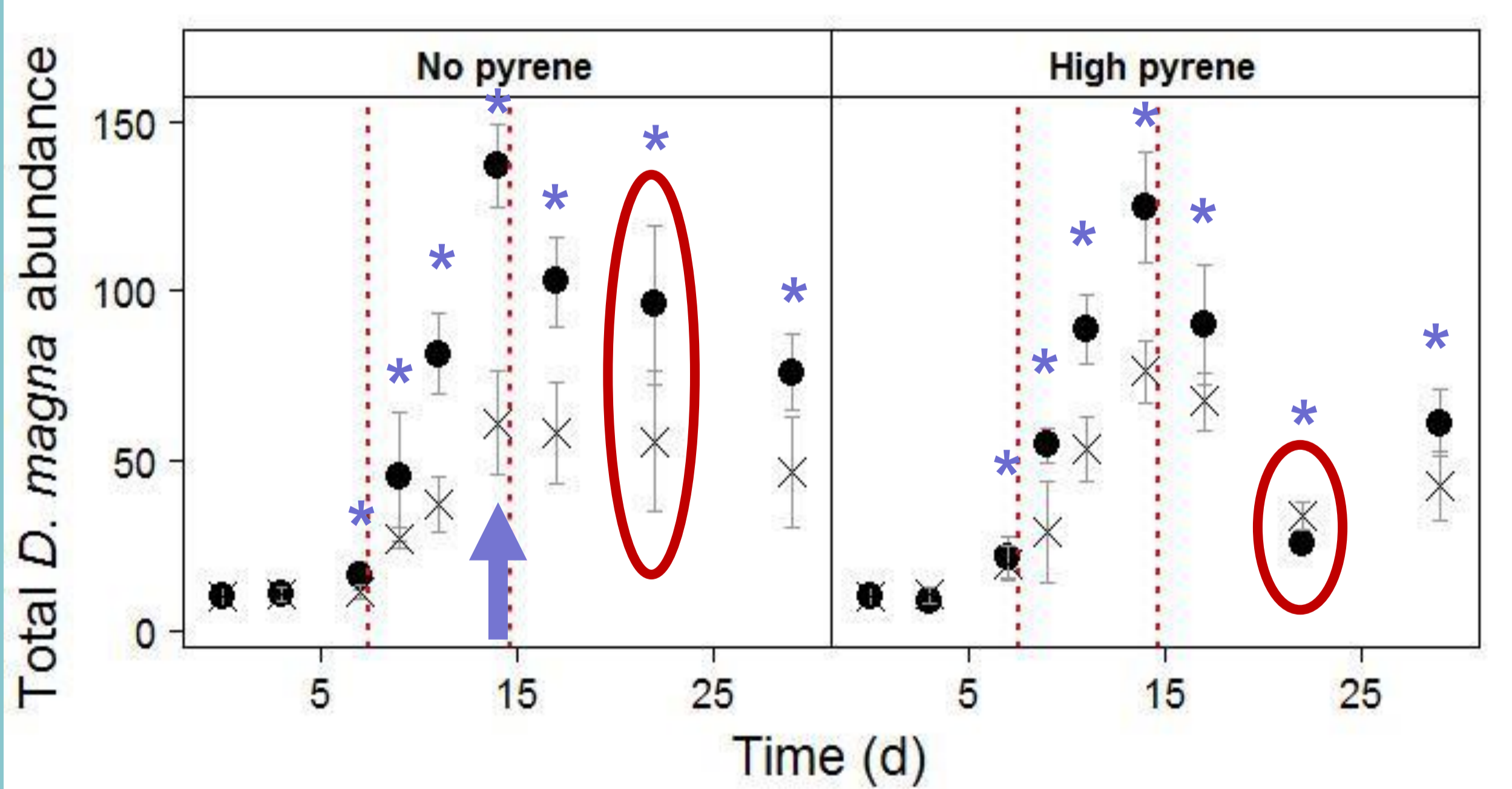
- ✓ Pyrene: **concentration-response** effect after 2nd addition ○
- ✓ Recovery ↑

INTRASPECIFIC COMPETITION



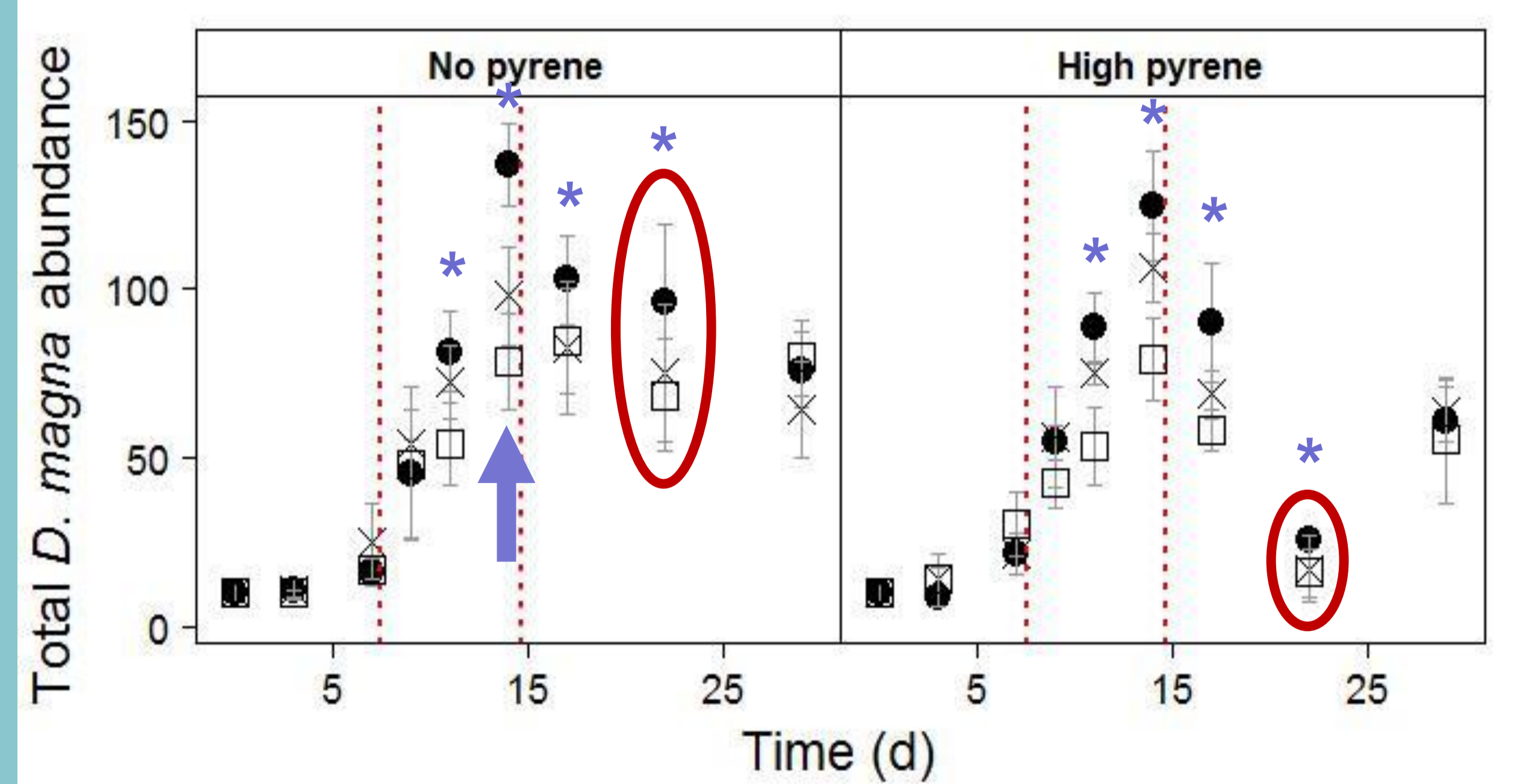
- ✓ Negative effect of intraspecific competition e.g. ↑
- ✓ 22 days: ≠ population structure => **antagonism** ○

PREDATION



- ✓ Large negative effect of predation e.g. ↑
- ✓ 22 days: decreased feeding rate => **antagonism** ○

INTERSPECIFIC COMPETITION



- ✓ Negative effect of interspecific competition e.g. ↑
- ✓ No significant interaction with pyrene ○

Conclusions

Predation had the largest impact on *D. magna* populations
Antagonism between pyrene and predation / intraspecific competition

