

We explore the effect of sex and light regime (light vs. dark) on behaviour (exploration) in four different population (three surface, one cave-adapted and surface.type colonists in the cave) of *Asellus aquaticus*

- 1) Call data from the .csv file
- 2) Change the variables 'population', 'sex' and 'light.regime' to factors
- 3) Plot the distribution of the dependent variable ('exploration')
- 4) Fit a glm (lme4 library) model using the right distribution with 'exploration' as the dependent variable and 'population', 'sex' and 'light.regime' as independent variables. Do not use interactions in the model term.
- 5) Run the model with the Anova command (car library), keeping in mind that we need type III anova, check and interpret the summary table
- 6) Check and interpret the estimated marginal means of the significant effects (emmeans library), backtransformed to the original (response) scale and also provide a post-hoc test, using the Tukey method.