

Metadata for "Timing of nanoplastic exposure during infection impacts viability of host in an aquatic host-parasite system"

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Description This file explains the variables measured in both experiments belonging to *Parasite exposure to nanoplastics at the transmission stage does not impact disease in an aquatic zooplankton* manuscript. Columns in the csv file represent variables measured in both experiments, while rows are experimental units consisting of a single *Daphnia magna* individual. Explanation for each variable is provided below.

Datasheet: Ex1_stat.csv

- **Unit:** Number ID of experimental unit
- **Size:** Size of polystyrene nanoplastics (0 nm, 50 nm, 100 nm).
- **Conc:** Concentration of polystyrene nanoplastic beads (0 mg / L, 1 mg / L, 5 mg / L).
- **NP:** presence of nanoplastics (0 = no, 1 = yes).
- **day_birth:** date of birth of the animal in the experimental unit.
- **day_death:** date of death of the animal in the experimental unit.
- **day_inoc:** Date of inoculation of the animal in the experimental unit.
- **age_all:** Age of the animal in the experimental unit from the day of birth until the day of death.
- **post_inoc_surv:** Number of days the animal in the experimental unit survived after inoculation.
- **Complete survival:** Whether the animal in the experimental unit survived until day 25 the last day of the experiment.
- **viability:** Whether the animal in the experimental unit survived until day 10 after inoculation and was therefore able to be infected (0 = no, 1 = yes).
- **Infectivity:** whether the animal in the experimental unit became infected or not with the fungal parasite *Metschnikowia bicuspidata*.
- **spores:** Calculated total number of spores produced in a single individual *Daphnia* (average 4 squares in a Neubauer chamber).
- **parasite reproduction:** Number of spores per infected *Daphnia* divided by the number of days individual *Daphnia* survived post-inoculation.
- **total offspring production:** Total number of offspring produced by a single *Daphnia* during the whole experiment.
- **fecundity:** Production of offspring throughout the whole experiment (0 = no, 1 = yes).

Datasheet: Ex2_stat.csv

- **Unit:** Number ID of experimental unit.
- **Size:** Size of polystyrene nanoplastics (0 nm, 50 nm, 100 nm).
- **Timepoint:** Timepoint at which parasite-exposed *Daphnia* were treated with nanoplastics.

- Numbers refer to the following treatment:
 - 1:** Control (No exposure to nanoplastics)
 - 2:** Full-time treatment (Exposure of Daphnia to nanoplastics for the whole duration of the experiment)
 - 3:** Exposure from day 0 (Before parasite inoculation)
 - 4:** Exposure from day 4 (Spore germination stage)
 - 5:** Exposure from day 7 (Sporocyte development stage)
 - 6:** exposure from day 10 (Vegetative growth stage)

All timepoints are linked to the different parasite development stages.
- **NP:** Presence of nanoplastics (0 = no, 1 = yes).
- **day_birth:** Date of birth of the animal in the experimental unit.
- **day_death:** Date of death of the animal in the experimental unit.
- **day_inoc:** Date of inoculation of the animal in the experimental unit.
- **post_inoc_surv:** Number of days the animal in the experimental unit survived after the inoculation.
- **age_all:** Age of the animal in the experimental unit from the day of birth until the day of death.
- **complete survival:** Whether the animal in the experimental unit survived until day 25 the last day of the experiment.
- **viability:** Whether the animal in the experimental unit survived past day 10 post inoculation and was therefore able to be infected (0 = no, 1 = yes).
- **infectivity:** Whether the animal in the experimental unit became infected or not with the fungal parasite *Metschnikowia bicuspidata*.
- **spores:** Calculated total number of spores produced in a single individual Daphnia (Average of 4 squares in a Neubauer chamber).
- **pararepro:** Number of spores per infected Daphnia divided by the number of days individual Daphnia survived post-inoculation.
- **cumoff:** Total number of offspring produced by a single Daphnia during the whole experiment.
- **fecundity:** Production of offspring throughout the whole experiment (0 = no, 1 = yes).