

# 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).