**Supplemental Material**

**The expression of virulence for a mixed-mode transmitted parasite in a diapausing host**

Elham Sheikh-Jabbari1, Matthew D.Hall1,4, Frida Ben-Ami2, Dieter Ebert1,3

1University of Basel, Zoological Institute, Vesalgasse 1, 4051 Basel, Switzerland

2Department of Zoology, George S. Wise Faculty of Life Sciences, Tel Aviv University, Tel Aviv 69978, Israel

3Tvärminne Zoological Station, FI-10900 Hanko, Finland

4 current address: School of Biological Sciences, Monash University, Melbourne, Victoria 3800, Australia

**Running title:** Parasitism and resting eggs in *Daphnia*

**Corresponding Author:**

Elham Sheikh-Jabbari

University of Basel, Zoological Institute, Vesalgasse 1, 4051 Basel, Switzerland

E-mail: elham.sheikhjabbari@unibas.ch

Tel: +41 61 267 03 77

Fax: +41 61 267 03 62

**Table supplementary 1.** Overall population effect of experiment 1. Restricted maximum likelihood test showing infection effect in experiment 2 and infection and clone effects in experiment 3.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Trait** | **Statistic** |  | **Experiment 1**  **ANOVA** |  | **Experiment 2**  **REML** |  | **Experiment 3**  **REML** | | |
|  | **Population** |  | **Infection** |  | **Infection** | **Clone** | **Infection × clone** |
| Ephippia Length | DF |  | 4,400 |  | 1,18 |  | 1,10 | 2,10 | 2,10 |
| F-ratio |  | 7.356 |  | 3.646 |  | 0.760 | 3.368 | 0.955 |
| P-value |  | **<0.001** |  | 0.072 |  | 0.402 | 0.072 | 0.414 |
|  |  |  |  |  |  |  |  |  |  |
| Egg Volume | DF |  | 4,395 |  | 1,18 |  | 1,10 | 2,10 | 2,10 |
| F-ratio |  | 51.462 |  | 0.177 |  | 1.880 | 5.036 | 4.90 |
| P-value |  | **<0.001** |  | 0.680 |  | 0.200 | **0.031** | **0.033** |
|  |  |  |  |  |  |  |  |  |  |
| Egg Shape | DF |  | 4,395 |  | 1,18 |  | 1,10 | 2,10 | 2,10 |
| F-ratio |  | 130.848 |  | 1.724 |  | 0.377 | 20.517 | 3.698 |
| P-value |  | **<0.001** |  | 0.206 |  | 0.558 | **0.001** | 0.079 |
|  |  |  |  |  |  |  |  |  |  |
| 1/Time to Hatch | DF |  | 4,263 |  | 1,9 |  | 1,10 | 2,10 | 2,10 |
| F-ratio |  | 33.077 |  | 0.000 |  | 2.006 | 12.570 | 10.373 |
| P-value |  | **<0.001** |  | 0.980 |  | 0.185 | **0.002** | **0.003** |