

Supplementary material

Planktivorous fish positively select *Daphnia* bearing advanced embryos

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Table S1. The list of microcrustacean species found in the mesocosms without fish (F–) and with fish (F+) , including their non-determined juveniles, males and ostracods integrated to five groups

<i>Daphnia</i> spp.	Chydoridae	Cyclopoida	Calanoida	Other crustaceans
<i>Daphnia ambigua</i>	<i>Acroperus harpae</i>	<i>Acanthocyclops trajani</i>	<i>Eudiaptomus gracilis</i> ♂	<i>Bosmina longirostris</i>
<i>Daphnia</i> gr. <i>longispina</i>	<i>Alona guttata</i>	<i>Acanthocyclops vernalis</i>	<i>Eudiaptomus gracilis</i> ♀	<i>Ceriodaphnia affinis</i>
<i>Daphnia pulicaria</i>	<i>Alona quadrangula</i>	<i>Eucyclops serrulatus</i>	Juvenile calanoid stages	<i>Ceriodaphnia pulchella</i>
Juvenile daphnid stages	<i>Alonella nana</i>	<i>Macrocyclops albidus</i>		<i>Ceriodaphnia quadrangula</i>
Daphnid males	<i>Biapertura affinis</i>	<i>Mesocyclops leuckarti</i>		<i>Diaphanosoma brachyurum</i>
	<i>Disparalona rostrata</i>	<i>Thermocyclops crassus</i>		<i>Scapholeberis mucronata</i>
	<i>Chydorus sphaericus</i>	Cyclopoid males		Ostracoda
	<i>Leydigia leydigi</i>	Juvenile cyclopoid stages		
	<i>Pleuroxus aduncus</i>			
	<i>Pleuroxus denticulatus</i>			
	<i>Pleuroxus trigonellus</i>			
	<i>Pleuroxus truncatus</i>			
	<i>Pleuroxus uncinatus</i>			

Table S2. Measured total biomass of five crustacean groups and the life-history traits of the egg-bearing *Daphnia* gr. *longispina* females in the mesocosms without fish (F–) and with fish (F+) during three sampling days

Both F– and F+ mesocosms were fishless on Day 0 (fish were added immediately after the first sampling). Data are means \pm s.e.m. ($n = 3$)

Parameter	Day 0		Day 28		Day 50	
	F–	F+	F–	F+	F–	F+
Total biomass						
<i>Daphnia</i> spp. ($\mu\text{g L}^{-1}$)	794 \pm 30.9	774 \pm 215	680 \pm 256	20 \pm 3.89	683 \pm 160	2.12 \pm 1.34
Chydoridae ($\mu\text{g L}^{-1}$)	0.26 \pm 0.08	0.18 \pm 0.1	2.39 \pm 0.81	7.79 \pm 3.6	2.37 \pm 1.2	20.6 \pm 8.54
Cyclopoida ($\mu\text{g L}^{-1}$)	0.64 \pm 0.13	0.53 \pm 0.18	3.05 \pm 1.54	4.71 \pm 0.84	6.8 \pm 2.15	19 \pm 2.73
Calanoida ($\mu\text{g L}^{-1}$)	0.12 \pm 0.12	0.64 \pm 0.36	1.41 \pm 0.86	2.08 \pm 0.52	4.56 \pm 2.04	23.5 \pm 5.98
Other crustaceans ($\mu\text{g L}^{-1}$)	2.55 \pm 2.42	0.62 \pm 0.35	4.41 \pm 2.09	0.53 \pm 0.28	63.2 \pm 57.3	3.11 \pm 0.39
<i>Daphnia</i> females						
Body length (mm)	1.99 \pm 0.02	1.93 \pm 0.02	1.72 \pm 0.01	1.08 \pm 0.03	1.76 \pm 0.08	0.85 \pm 0.02
Clutch size	10.3 \pm 3.4	7.8 \pm 2.1	2.6 \pm 0.9	2.8 \pm 0.2	4.8 \pm 3.5	2.8 \pm 0.6
Percentage with earlier embryos	60 \pm 6	55 \pm 4	71 \pm 3	77 \pm 15	52 \pm 11	33 \pm 17
Percentage with advanced embryos	40 \pm 6	45 \pm 4	29 \pm 3	6 \pm 6	48 \pm 11	0

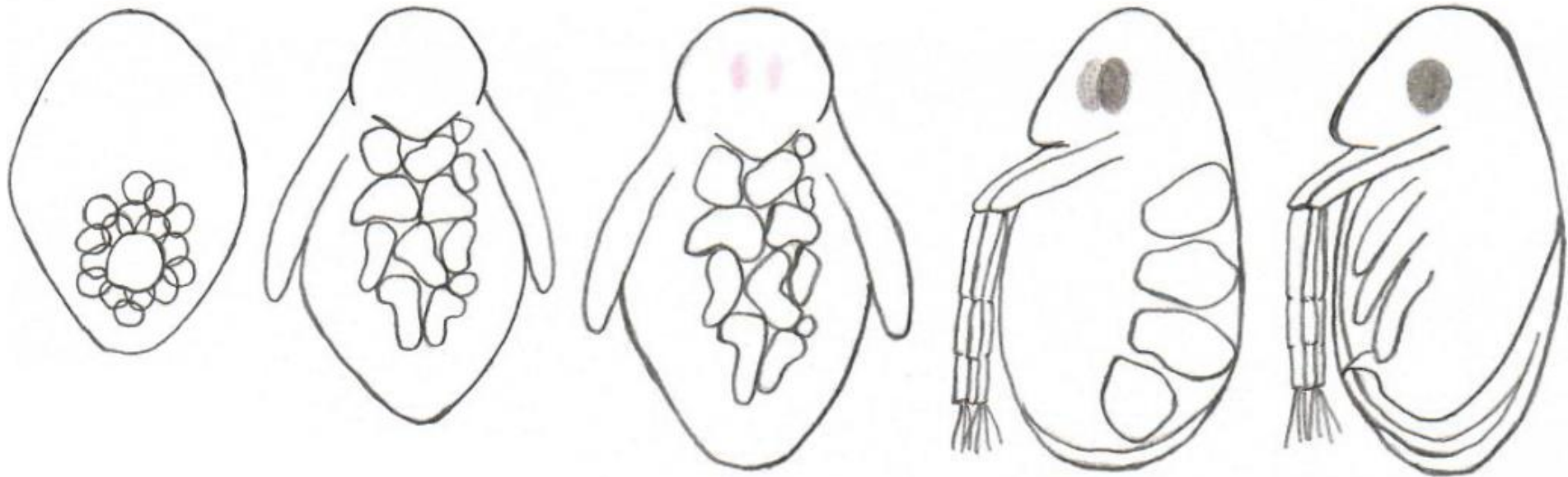


Fig. S1. Outlines of five well distinguished stages of daphnid embryos from the egg (Stage 1) on the left to the last embryonic stage resembling juveniles (Stage 5) on the right. Note that Stages 1–3 are ventral views, whereas Stages 4 and 5 are side views.