

S1 Table

Raw data of bistribution of *E. verrucosus* (n=5), *O. flavus* (n=4) and *G. lacustris* (n=5) individuals in an experimental thermal gradient (Timofeyev et al. 2001, Timofeyev, Shatilina, 2007)

Species: *E. verrucosus*
Total number of Animals 500

	Temperature, °C									
	3-4 °C	5-6°C	7-8°C	9-10°C	11-12°C	13-14°C	15-16°C	17-18°C	19-20°C	21-22°C
Raw data, %	11.9	21.0	14.0	7.5	8.0	2.0	2.0	0.0	1.0	0.0
	19.3	33.2	23.2	14.5	9.9	6.6	6.0	4.0	1.9	0.0
	24.0	37.5	24.0	17.8	15.0	9.0	4.0	2.9	0.0	0.0
	13.0	25.8	20.0	12.0	12.0	5.2	3.0	4.1	5.0	1.0
	18.6	33.1	25.0	15.5	2.0	7.6	5.8	1.0	1.9	3.3
N	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
MEAN	17.4	30.1	21.2	13.5	9.4	6.1	4.2	2.4	2.0	0.9
SD	5.0	6.6	4.5	3.9	4.9	2.7	1.7	1.8	1.9	1.4

Species: *O. flavus*
Total number of Animals 312

	Temperature, °C								
	3-4 °C	5-6°C	7-8°C	9-10°C	11-12°C	13-14°C	15-16°C	17-18°C	19-20°C
Raw data, %	15.0	14.0	12.0	9.0	10.0	8.0	8.0	2.0	0.0
	19.0	18.7	11.0	12.2	12.0	10.0	8.0	3.0	2.0
	22.0	19.0	18.0	14.0	12.4	12.0	10.0	7.0	3.0
	24.0	25.0	20.0	18.0	16.2	14.0	12.0	7.0	3.0
N	4	4	4	4	4	4	4	4	4
MEAN	16.8	16.1	13.0	11.4	10.9	9.6	8.4	4.6	2.4
SD	7.9	7.8	6.3	5.3	4.5	3.8	3.0	2.3	1.5

Species: *G. lacustris*
Total number of Animals 475

	Temperature, °C								
	3-4 °C	5-6°C	7-8°C	9-10°C	11-12°C	13-14°C	15-16°C	17-18°C	19-20°C
Raw data, %	0.0	1.0	3.1	3.8	8.0	14.0	25.0	8.0	3.0
	1.0	1.7	3.2	4.2	10.1	16.0	28.7	11.8	4.2
	1.0	1.8	4.2	4.0	10.1	16.1	28.7	12.5	5.0
	1.7	2.0	6.9	5.5	12.1	19.2	34.3	14.1	5.1
	1.8	3.0	7.1	7.0	20.0	28.0	48.0	25.0	10.0
N	5	5	5	5	5	5	5	5	5
MEAN	1.1	1.9	4.9	4.9	12.1	18.7	33.0	14.3	5.5
SD	0.7	0.7	2.0	1.3	4.7	5.5	9.0	6.4	2.7

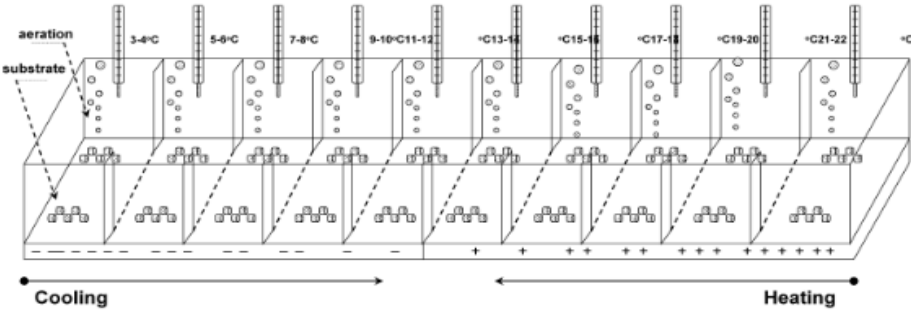


Fig. Gradient installation used for the experiments

References

Timofeyev MA, Shatilina JM, Stom DI. Attitude to temperature factor of some endemic amphipods from Lake Baikal and Holarctic *G. ammarus lacustris* Sars, 1863 : A comparative experimental study. *Arthropoda Sel.* 2001;10: 93–101.

Timofeyev MA, Shatilina Z. Different preference reactions of three Lake Baikal endemic amphipods to temperature and oxygen are correlated with symbiotic life. *Crustaceana.* 2007;80: 129–138.