



Fig. S3. Frequency distribution curve of water temperature in Lake Murten (Murtensee) at 1 m depth (46°54'24"N, 7°2'59"E).

Table S1. Whole mussel masses and lengths (means \pm s.e.m.), the observation duration (means \pm s.e.m.) and the number of mussels (N) used for each of the derived parameters

Month	Mass (g)	Length (mm)	Observation duration (days)	Total	BRI	Closure duration	Closure frequency	Locomotion
Jan	56.8 \pm 3.6	84.4 \pm 2.1	3.07 \pm 0.58	21	14	10	14	1
Feb	41.4 \pm 3.8	79.1 \pm 2.5	4.03 \pm 0.55	16	13	8	10	1
Mar	46.5 \pm 3.6	77.9 \pm 2.0	3.83 \pm 0.51	30	17	14	24	3
Apr	41.5 \pm 4.9	75.7 \pm 3.1	1.78 \pm 0.01	18	13	9	11	7
May	54.1 \pm 3.8	74.0 \pm 6.6	1.57 \pm 0.51	16	14	7	10	4
Jun	42.5 \pm 4.3	73.3 \pm 2.9	1.27 \pm 0.09	20	18	9	12	4
Jul	47.0 \pm 7.6	79.7 \pm 3.3	1.21 \pm 0.17	14	13	9	10	5
Aug	43.7 \pm 3.7	77.1 \pm 2.4	1.99 \pm 0.35	14	13	10	11	10
Sep	71.1 \pm 3.9	91.2 \pm 1.9	1.50 \pm 0.23	12	12	9	11	3
Oct	68.0 \pm 5.1	92.9 \pm 2.5	2.42 \pm 0.43	13	13	11	13	4
Nov	57.5 \pm 5.5	86.0 \pm 3.0	2.18 \pm 0.35	16	12	7	10	
Dec	65.0 \pm 4.2	90.1 \pm 2.0	5.17 \pm 1.34	23	7	7	10	1

BRI, burrowing rate index.