

Article

Life-history traits and acclimation ability of a copepod species from the dripping waters of the Corchia Cave (Apuan Alps, Tuscany, Italy)

Di Lorenzo Tiziana ^{1,2,3*}, **Galassi Diana Maria Paola** ⁴, **Tabilio Di Camillo Agostina** ^{1,4}, **Pop Maria-Mirabela** ³, **Iepure Sanda** ^{3,5} and **Piccini Leonardo** ⁶

¹ Research Institute on Terrestrial Ecosystems of the National Research Council of Italy (IRET CNR), Florence, Italy

² NBFC (National Biodiversity Future Center), Palermo 90133, Italy

³ "Emil Racovita" Institute of Speleology, Cluj-Napoca, Romania

⁴ Department of Life, Health and Environmental Sciences, University of L'Aquila, L'Aquila, Italy

⁵ Department of Taxonomy and Ecology, University Babes – Bolyai, Cluj Napoca, Romania

⁶ Department of Earth Sciences, University of Florence, Florence, Italy

* Correspondence: tiziana.dilorenzo@cnr.it

Table S1. Oxygen consumption rates in ng O₂/mg DW × h of female individuals of *Moraria* sp. at four acclimation temperatures. T: temperature in °C; L: body length in mm; W: body width in mm; BV: biovolume in nL; FW: fresh weight in µg; DW: dry weight in µg. ID indicates the individuals of *Moraria* sp. used in this study.

ID	T	L	W	BV	FW	DW	ng O ₂ /mg DW × h
A1	8.0	0.55	0.138	5.1	5.6	1.4	1789
A2	8.0	0.58	0.142	5.7	6.3	1.6	140
B2	8.0	0.54	0.142	5.3	5.9	1.5	216
C2	8.0	0.55	0.138	5.1	5.6	1.4	598
A3	8.0	0.55	0.138	5.1	5.6	1.4	1789
B3	8.0	0.55	0.145	5.7	6.2	1.6	203
B4	8.0	0.54	0.145	5.6	6.1	1.5	427
D4	8.0	0.54	0.127	4.3	4.7	1.2	1374
B5	8.0	0.58	0.127	4.6	5.0	1.3	1774
C5	8.0	0.53	0.145	5.5	6.0	1.5	818
A1	9.5	0.56	0.142	5.5	6.1	1.5	1378
B1	9.5	0.56	0.145	5.8	6.3	1.6	1200
C1	9.5	0.55	0.138	5.1	5.6	1.4	1621
D1	9.5	0.55	0.127	4.3	4.8	1.2	1553
A2	9.5	0.55	0.127	4.3	4.8	1.2	1432
B2	9.5	0.55	0.127	4.3	4.8	1.2	1914
C2	9.5	0.56	0.140	5.4	5.9	1.5	1222
D2	9.5	0.54	0.145	5.6	6.1	1.5	1464
A3	9.5	0.54	0.142	5.3	5.9	1.5	1330
B3	9.5	0.58	0.142	5.7	6.3	1.6	1208
C3	9.5	0.53	0.145	5.5	6.0	1.5	1396
D3	9.5	0.55	0.145	5.7	6.2	1.6	1068
A4	9.5	0.55	0.145	5.7	6.2	1.6	1099
B4	9.5	0.55	0.149	6.0	6.6	1.6	1566
C4	9.5	0.55	0.138	5.1	5.6	1.4	1451
D4	9.5	0.54	0.145	5.6	6.1	1.5	1370
A5	9.5	0.53	0.140	5.1	5.6	1.4	1600
B5	9.5	0.53	0.142	5.2	5.8	1.4	1289
C5	9.5	0.58	0.142	5.7	6.3	1.6	1513
D5	9.5	0.54	0.142	5.3	5.9	1.5	1167
A6	9.5	0.58	0.145	6.0	6.6	1.6	1305
D1	11.0	0.55	0.127	4.3	4.8	1.2	1807
C2	11.0	0.56	0.138	5.2	5.7	1.4	104
A3	11.0	0.56	0.145	5.8	6.3	1.6	2301
C3	11.0	0.56	0.145	5.8	6.3	1.6	668
A4	11.0	0.56	0.127	4.4	4.9	1.2	3779
A5	11.0	0.55	0.140	5.3	5.8	1.5	1583
B5	11.0	0.55	0.145	5.7	6.2	1.6	2618
C5	11.0	0.55	0.142	5.4	6.0	1.5	3051
A1	12.5	0.54	0.142	5.3	5.9	1.5	4286
A2	12.5	0.56	0.145	5.8	6.3	1.6	3449
B2	12.5	0.56	0.145	5.8	6.3	1.6	968
C2	12.5	0.58	0.138	5.4	6.0	1.5	1096
D2	12.5	0.53	0.127	4.2	4.6	1.2	3126
C3	12.5	0.56	0.127	4.4	4.9	1.2	3826
D3	12.5	0.54	0.127	4.3	4.7	1.2	1104
B1	12.5	0.55	0.145	5.7	6.2	1.6	208
C1	12.5	0.55	0.140	5.3	5.8	1.5	1875
B2	12.5	0.55	0.142	5.4	6.0	1.5	1116
B3	12.5	0.53	0.140	5.1	5.6	1.4	1741
A4	12.5	0.55	0.127	4.3	4.8	1.2	2440
D4	12.5	0.55	0.138	5.1	5.6	1.4	2610
C5	12.5	0.55	0.127	4.3	4.8	1.2	994
D5	12.5	0.53	0.138	4.9	5.4	1.4	274

Table S2. PERMANOVA results based on Euclidean distances of oxygen consumption rates ng O₂/mg DW × h of female individuals of *Moraria* sp. at four acclimation temperatures (T: 8.0, 9.5, 11.0, 12.5 °C).

Source	df	SS	MS	Pseudo-F	P(perm)	perms
T	3	8.4438×10^6	2.8146×10^6	3.6325	0.016	999
Res	50	3.8742×10^7	7.7484×10^5			
Total	53	4.7186×10^7				