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**SUPPLEMENTARY MATERIAL**

**Combining sediment cladocera remains and geochemistry to reveal the role of a large catchment in driving changes in a small subalpine lake (Lake Ledro, N-Italy)**

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**Supplementary Tab. 1.** Results of the Kruskal-Wallis test applied on antennules, carapace and mucro measurements of *B.(E.) coregoni* and *B.(E.) longispina*.

	$\chi^2$	P
<i>B.(E.) coregoni</i>		
Antennules	9.00	0.003
Carapace	2.04	ns
Mucro	4.59	0.03
<i>B.(E.) longispina</i>		
Antennules	8.43	<0.001
Carapace	11.29	<0.001
Mucro	8.95	0.01

ns, not significant.

**Supplementary Tab. 2.** Species code used in the NMDS analyses.

Code	Species	Author
Acrelo	<i>Acroperus elongatus</i>	(Sars)
Acrhar	<i>Acroperus harpae</i>	(Baird)
Aloaff	<i>Alona affinis</i>	Leydig
Alocos	<i>Alona costata</i>	Sars
Alogut	<i>Alona guttata</i>	Sars
Aloqua	<i>Alona quadrangularis</i>	(O. F. Müller)
Alorec	<i>Alona rectangula</i>	Sars
Aloexc	<i>Alonella excisa</i>	Fischer
Aloxi	<i>Alonella exigua</i>	Lilljeborg
Alonan	<i>Alonella nana</i>	Baird
Boscor	<i>Bosmina (E) coregoni</i> group	Baird
Boslro	<i>Bosmina longirostris</i> group	(O. F. Müller)
Boslspp	<i>Bosmina (E) longispina</i> group	Leydig
Bytln	<i>Bythotrephes longimanus</i>	Leydig
Camrec	<i>Camptocercus rectirostris</i>	Schödler
Camspp	<i>Camptocercus</i> spp.	Baird
Chypig	<i>Chydorus piger</i>	(Sars)
Chysph	<i>Chydorus sphaericus</i>	(O. F. Müller)
Daplon	<i>Daphnia longispina</i> group	O. F. Müller
Disros	<i>Disparalona rostrata</i>	Koch
Eurspp	<i>Eurycercus</i> spp.	Baird
Grates	<i>Graptoleberis testudinaria</i>	(Fischer)
Lepkin	<i>Leptodora kindtii</i>	(Focke)
Leyaca	<i>Leydigia acanthocercoides</i>	(Fischer)
Leyley	<i>Leydigia leydigi</i>	(Schödler)
Mondis	<i>Monospilus dispar</i>	Sars
Plespp	<i>Pleuroxus</i> spp.	Baird
Pletri	<i>Pleuroxus trigonellus</i>	(O. F. Müller)
Pletru	<i>Pleuroxus truncatus</i>	(O. F. Müller)
Pleunc	<i>Pleuroxus uncinatus</i>	Baird
Rynfal	<i>Rhynchotalona falcata</i>	(Sars)
Sidery	<i>Sida crystallina</i>	(O. F. Müller)
Unalat	<i>Unapertura latens</i>	Sarmaja-Korjonen