

Article

Biological, Chemical, and Ecotoxicological Assessments Using Benthos Provide Different and Complementary Measures of Lake Ecological Status

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Supplementary Materials

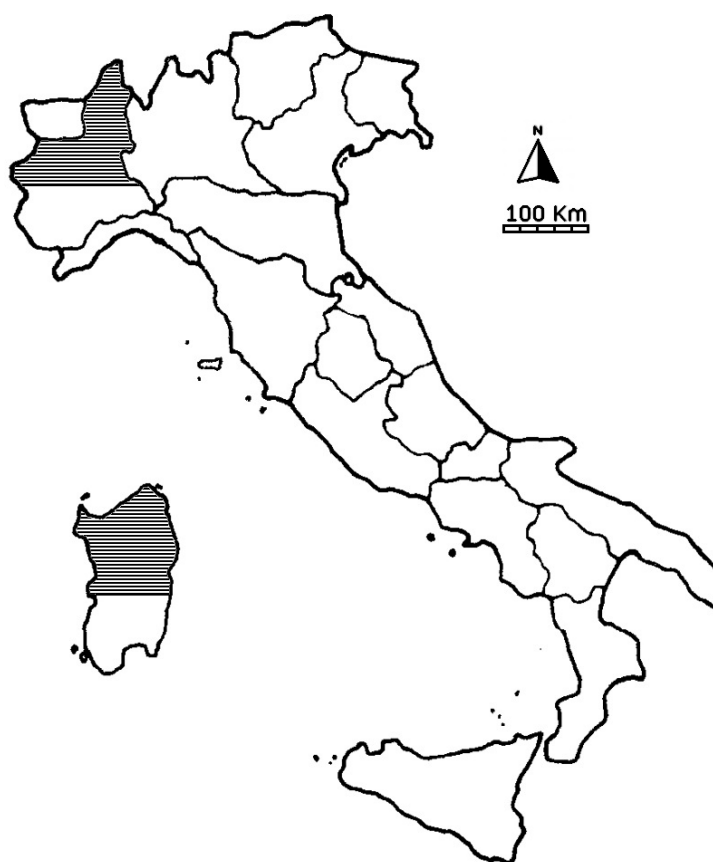


Figure S1. Regions and areas of concern (grey) for the present study.

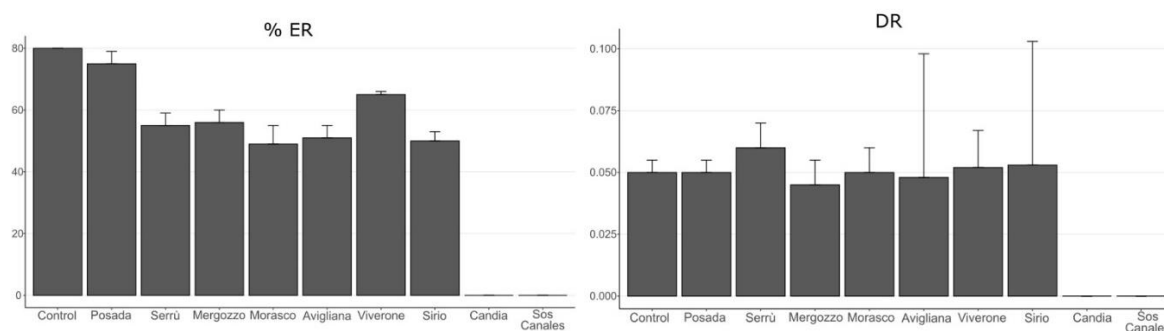


Figure S2. Emergence Ratio (ER%) and Development Ratio (DR) of chironomids of the ecotoxicological test.

Table S1. Main characteristics of the studied lakes. AL: Alpine; ME: Mediterranean.

Region	Lake Name	Lake Type	Class Type	Trophic Category	Latitude	Longitude	Altitude	Lake Area	Mean Depth	Max. Depth
					N	E	m a.s.l.	km ²	m	m
Piedmont	Mergozzo	Natural	AL-6	Ultra-oligotrophic	45°57'23"	08°27'47"	194	1.82	45.6	73
Piedmont	Morasco	Reservoir	AL-9	Oligotrophic	46°25'33"	08°23'48"	1814	0.57	31.0	50
Piedmont	Avigliana piccolo	Natural	AL-5	Oligo-mesotrophic	45°03'13"	07°23'30"	356	0.58	7.7	12
Piedmont	Sirio	Natural	AL-6	Meso-eutrophic	45°29'06"	07°53'05"	271	0.32	18.1	44
Piedmont	Viverone	Natural	AL-6	Meso-eutrophic	45°24'05"	08°03'05"	230	5.78	22.5	50
Piedmont	Candia	Natural	AL-5	Eutrophic	45°19'25"	07°54'43"	227	1.69	5.9	8
Sardinia	Posada	Reservoir	ME-3	Eutrophic	40°38'19"	09°36'28"	43	3.00	9.3	30
Sardinia	Sos Canales	Reservoir	ME-5	Eutrophic	40°33'17"	09°18'55"	709	0.30	19.7	48

Table S2. pH, dissolved oxygen (%) and NH₄⁺ (mg·L⁻¹) in water at the start (t₀) and at the end (t_{end}) of the ecotoxicological test with different lake sediments.

	Time	Control	Posada	Serrù	Mergozzo	Morasco	Avigliana piccolo	Viverone	Sirio	Candia	Sos Canales
pH	t ₀	7.96	7.02	7.44	6.51	7.83	7.83	7.93	7.64	7.55	4.14
	t _{end}	7.94	5.13	7.34	6.06	7.82	8.04	8.04	7.7	4.08	3.96
O ₂	t ₀	96.4	92	82.5	96.8	92.5	85.3	78.7	78.4	76.3	75.8
	t _{end}	86	82.6	76.9	85.8	89.9	87	90.5	94.4	83.6	82.7
NH ₄ ⁺	t ₀	0.01	0.8	0.01	0.01	0.01	0.01	0.01	0.01	0.8	0.8
	t _{end}	0.01	7.74	<0.8	7.74	<0.8	<0.8	<0.8	<0.8	7.74	7.74