

Table S13. Physical-chemical, morphological and vegetation variables influencing species composition of freshwater rotifer assemblages in multivariate multi-site studies from different parts of the world; variables ranked by relative importance (if several within same group, most important one only). ¹ includes Ca, Mg, hardness; ² includes Al, Fe; ³ includes COD, DOC; ⁴ includes pGOP, pigments; ⁵ includes Secchi depth; ⁶ wavelength not reported; ⁷ includes Dsl, depth, area; phosphorus and nitrogen stand for all their forms. Blue: (semi-)plankton or mixed origin; green: epiphyton; red: mosses. * Separate analyses for substrate and water chemistry. ** Analysis at family level.

Variable	This study	[40, 41]	[227]	[251]	[35]	[212]*	[206]	[51]	[252]	[148]**	[33]	[253]	[254]	[175]	[221]	[36]	[241]	[255]
temperature	-	2	-	1	4	-	-	3	-	1	-	1	1	-	2	-	2	-
pH/alkalinity	1	-	-	4	3	2	x	1	-	5	-	4	3	-	-	6	3	1
EC, salinity	-	-	-	5	1	-	-	2	3	-	1	7	-	-	-	2	5	3
total dissolved solids	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
alkaline earth metals ¹	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	2
monovalent cations	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-
chloride	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	4	-	7
sulphate	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-	8	-	-
phosphorus	2	-	2	-	5	-	-	-	-	4	4	5	4	-	-	7	-	9
nitrogen	-	-	-	-	6	-	-	-	2	3	4	8	2	-	-	-	-	10
other metals ²	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
silica	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
organic matter ³	5	-	-	-	-	-	-	-	-	-	2	-	6	-	3	-	-	4
oxygen	-	-	-	3	2	-	-	4	-	2	-	3	5	-	-	-	-	11
oxidation-reduction potential, Eh	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	6
phytoplankton proxies ⁴	4	3	1	-	-	-	-	-	-	-	3	6	7	1	1	9	-	-
turbidity ⁵	-	1	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-

[illegible]