

## Article

# Effects of Trace Elements on the Fatty Acid Composition in Danubian Fish Species

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**Table S1.** Number, size, and age of the two fish species sampled for each sampling site.

	Veliko Ratno ostrvo		Višnjica	
	<i>R. rutilus</i>	<i>B. bjoerkna</i>	<i>R. rutilus</i>	<i>B. bjoerkna</i>
<b>Length (cm)</b>				
Min – max	27.0–29.0	30.2–34.0	24.0–27.0	22.0–27.5
Average	28.05	32.25	25.3	24.87
<b>Weight (g)</b>				
Min – max	360.0–400.0	400.0–780.0	200.0–300.0	190.0–390.0
Average	380.0	607.5	247.5	267.5
Age	4 <sup>+</sup>	5 <sup>+</sup>	4 <sup>+</sup>	3 <sup>+</sup> –4 <sup>+</sup>

**Table S2.** The operational parameters of the ICP-OES instrument (iCAP 7400 Duo Thermo Fisher Scientific).

Parameter	iCAP 7400
RF generator power	1150 W
RF generator frequency	27.12 MHz
Detector	CID86 chip
Results processing software	iTEVA iCAP
Mode for processing results	Peak height
Background correction	Manual

**Table S3.** Correlations of body length with metal and trace element concentrations in white bream and roach ( $p < 0.05$ ).

Element	Total length (TL)	
	White bream	Roach
As	0.711866*	−0.46131
Cr	−0.21371	−0.42447
Cu	−0.01916	−0.47753
Hg	0.570377*	−0.05895
Ni	0.449522	−0.13265
Pb	0.29646	−0.33898
*n	−0.30951	−0.65586*

\* Statistically significant correlations are marked in bold and with asterisk.

**Table S4.** Correlations of body length with fatty acids (FA) profiles in white bream ( $p < 0.05$ ).

FA	Total length (TL)
C12:0	-0.5766
C13:0	<b>0.79283*</b>
C14:0	-0.50453
C14:1	<b>0.79283*</b>
C14:1	<b>0.88292*</b>
C16:0	0.738769
C16:1	-0.23424
C17:0	-0.73877
C18:0	-0.45047
C18:1	<b>0.918956*</b>
C18:1	<b>-0.99103*</b>
C18:2	0.162169
18:2	0.198206
C18:3	-0.10811
C20:0	0.324337
C20:1	<b>-0.84688*</b>
C20:2	-0.39641
C20:3	-0.48651
C20:4	-0.16217
20:4	0.072075
C20:5	-0.39641
C23:6	0.252262

\* Statistically significant correlations are marked in bold and with asterisk.