

**Table S4: Correlation matrix of different activities (total antioxidant, scavenging and reducing) and phenolic (TPC) and flavonoid (TFC) contents of *Acrosiphonia orientalis***

**Correlation matrix (Pearson):**

Variables	TPC	ABTS	DPPH	RP	TFC
TPC	<b>1</b>	<b>0.916</b>	<b>0.975</b>	0.670	<b>0.949</b>
ABTS	<b>0.916</b>	<b>1</b>	<b>0.913</b>	0.867	<b>0.983</b>
DPPH	<b>0.975</b>	<b>0.913</b>	<b>1</b>	0.630	<b>0.969</b>
RP	0.670	0.867	0.630	<b>1</b>	0.775
TFC	<b>0.949</b>	<b>0.983</b>	<b>0.969</b>	0.775	<b>1</b>

*Values in bold are different from 0 with a significance level  $\alpha=0.05$*

**p-values (Pearson):**

Variables	TPC	ABTS	DPPH	RP	TFC
TPC	<b>0</b>	<b>0.029</b>	<b>0.005</b>	0.216	<b>0.014</b>
ABTS	<b>0.029</b>	<b>0</b>	<b>0.031</b>	0.057	<b>0.003</b>
DPPH	<b>0.005</b>	<b>0.031</b>	<b>0</b>	0.255	<b>0.006</b>
RP	0.216	0.057	0.255	<b>0</b>	0.123
TFC	<b>0.014</b>	<b>0.003</b>	<b>0.006</b>	0.123	<b>0</b>

**Coefficients of determination (Pearson):**

Variables	TPC	ABTS	DPPH	RP	TFC
TPC	<b>1</b>	0.839	0.951	0.449	0.901
ABTS	0.839	<b>1</b>	0.833	0.752	0.966
DPPH	0.951	0.833	<b>1</b>	0.397	0.939
RP	0.449	0.752	0.397	<b>1</b>	0.601
TFC	0.901	0.966	0.939	0.601	<b>1</b>

TPC: Total Phenolic Content; ABTS: Total antioxidant activity; DPPH: Radical Scavenging Activity; RP: Reducing Power, and TFC: Total Flavonoid Content