

Supplementary Table S3. Spearman correlation coefficients (ρ) between shoot metal concentration and plant biological parameters. Non-significant correlations (positive values) or anti-correlations (negative values), corresponding to $|\rho| < 0.300$, are highlighted in red. Poorly significant values ($0.301 < |\rho| < 0.500$), are highlighted in orange. **Excellent** values ($|\rho| > 0.701$) are in **black** color; the remaining good correlation/anticorrelation values ($0.501 < |\rho| < 0.700$) are highlighted in blue. Populations: B, Bologna urban; M, Milan urban; N, Bologna woodland; T, Milan woodland; P, serpentine. A. activity: antioxidant activity, P. pigments: photosynthetic pigments (sum of chlorophyll *a*, chlorophyll *b*, carotenoid levels).

<i>P. aviculare</i>		Cu	Pb	Cr	Ni	Cd	Zn	<i>S. vulgaris</i>		Cu	Pb	Cr	Ni	Cd	Zn
population B	Shoot FW	-0.890	-0.859	-0.850	-0.904	-0.835	-0.901	population B	Shoot FW	-0.976	-0.928	-0.841	-0.683	-0.920	-0.877
	Flavonoids	0.786	0.923	0.691	0.950	0.446	0.823		Flavonoids	0.836	0.570	0.890	0.584	0.749	0.723
	Polyphenols	0.638	0.770	0.881	0.678	0.632	0.575		Polyphenols	0.709	0.739	0.896	0.628	0.166	0.600
	A. activity	0.281	0.752	0.615	0.836	0.235	0.825		A. activity	0.768	0.868	0.298	0.143	0.710	0.683
	P. pigments	-0.908	-0.852	-0.540	-0.871	-0.117	-0.830		P. pigments	-0.839	-0.509	-0.600	-0.576	-0.720	-0.873
population M	Shoot FW	-0.714	-0.858	-0.740	-0.787	-0.829	-0.742	population M	Shoot FW	-0.807	-0.904	-0.874	-0.587	-0.807	-0.711
	Flavonoids	0.936	0.940	0.205	0.915	0.733	0.484		Flavonoids	0.612	0.342	0.664	0.414	0.531	0.761
	Polyphenols	0.646	0.919	0.365	0.632	0.821	0.695		Polyphenols	0.708	0.952	0.862	0.928	0.864	0.891
	A. activity	0.599	0.880	0.898	0.925	0.146	0.270		A. activity	0.928	0.270	0.877	0.329	0.881	0.746
	P. pigments	-0.587	-0.456	-0.289	-0.476	-0.623	-0.683		P. pigments	-0.859	-0.729	-0.41	-0.906	-0.758	-0.898
population N	Shoot FW	-0.935	-0.875	-0.805	-0.967	-0.965	-0.755	population N	Shoot FW	-0.867	-0.955	-0.786	-0.872	-0.883	-0.877
	Flavonoids	0.608	0.114	0.801	0.564	0.501	0.853		Flavonoids	0.667	0.663	0.655	0.478	0.442	0.863
	Polyphenols	0.879	0.813	0.836	0.866	0.856	0.828		Polyphenols	0.643	0.890	0.569	0.131	0.560	0.611
	A. activity	0.122	0.238	0.503	0.500	0.660	0.657		A. activity	0.216	0.131	0.211	0.325	0.770	0.578
	P. pigments	-0.408	-0.501	-0.328	-0.733	-0.823	-0.512		P. pigments	-0.807	-0.582	-0.270	-0.870	-0.518	-0.824
population T	Shoot FW	-0.910	-0.893	-0.844	-0.656	-0.895	-0.916	population T	Shoot FW	-0.883	-0.958	-0.893	-0.926	-0.897	-0.741
	Flavonoids	0.946	0.849	0.956	0.170	0.472	0.677		Flavonoids	0.905	0.676	0.765	0.653	0.585	0.862
	Polyphenols	0.585	0.662	0.493	0.162	0.116	0.856		Polyphenols	0.838	0.671	0.959	0.514	0.848	0.956
	A. activity	0.695	0.877	0.692	0.370	0.684	0.696		A. activity	0.967	0.924	0.576	0.182	0.661	0.985
	P. pigments	-0.902	-0.941	-0.41	-0.765	-0.931	-0.697		P. pigments	-0.948	-0.903	-0.257	-0.863	-0.125	-0.929
population P	Shoot FW	-0.908	-0.853	-0.885	-0.931	-0.894	-0.846	population P	Shoot FW	-0.945	-0.935	-0.416	-0.913	-0.905	-0.911
	Flavonoids	0.816	0.859	0.669	0.487	0.126	0.343		Flavonoids	0.806	0.613	0.337	0.197	0.634	0.602
	Polyphenols	0.922	0.901	0.644	0.724	0.611	0.878		Polyphenols	0.333	0.294	0.692	0.616	0.119	0.868
	A. activity	0.929	0.891	0.836	0.822	0.650	0.960		A. activity	0.614	0.223	0.566	0.940	0.256	0.975
	P. pigments	-0.893	-0.824	-0.579	-0.940	-0.935	-0.959		P. pigments	-0.937	-0.620	-0.707	-0.842	-0.778	-0.963

