

Table S12. Bio-concentration and translocation factors of heavy metals and other elements

Samples	Factors	Elements														
		Cd	Cr	Cu	Ni	Pb	Zn	Al	Fe	K	Na	Mg	Mn	P	S	Ti
1	BCF _r	0.001	0.014	3.099	0.001	0.002	1.261	0.101	0.036	13.214	8.339	2.114	0.605	3.314	4.785	0.00003
	BCF _s	0.030	0.036	1.338	0.009	0.002	0.364	0.098	0.010	7.194	10.131	1.789	0.309	1.469	7.222	0.0001
	TF	29.379	2.604	0.432	6.922	1.166	0.289	0.969	0.279	0.544	1.215	0.847	0.511	0.443	1.509	3.327
2	BCF _r	0.030	0.017	4.881	0.002	0.009	2.065	0.095	0.043	11.794	153.093	2.209	1.132	6.379	21.493	0.00003
	BCF _s	0.785	0.044	2.520	0.014	0.010	1.298	0.069	0.031	8.849	121.753	1.666	0.392	2.634	13.154	0.0001
	TF	26.053	2.578	0.516	8.278	1.213	0.628	0.731	0.729	0.750	0.795	0.754	0.346	0.413	0.612	4.331
3	BCF _r	0.0004	0.006	4.182	0.001	0.005	2.571	0.050	0.006	16.338	145.647	1.974	0.494	7.624	10.477	0.00003
	BCF _s	0.041	0.019	1.972	0.012	0.007	1.367	0.045	0.010	6.391	126.941	1.758	0.245	2.979	7.551	0.0001
	TF	112.770	2.897	0.472	9.600	1.544	0.532	0.893	1.718	0.391	0.872	0.891	0.495	0.391	0.721	2.657
4	BCF _r	0.0002	0.011	5.098	0.002	0.780	1.537	0.076	0.025	15.924	152.047	2.447	0.638	6.459	15.600	0.00003
	BCF _s	0.007	0.025	2.890	0.020	0.719	0.778	0.084	0.028	10.195	156.023	2.440	0.408	3.296	18.137	0.0001
	TF	36.600	2.315	0.567	9.556	0.923	0.506	1.105	1.119	0.640	1.026	0.997	0.640	0.510	1.163	4.108
5	BCF _r	0.029	0.008	4.789	0.002	1.549	3.935	0.081	0.029	14.710	186.824	3.104	0.627	9.991	8.273	0.00003
	BCF _s	0.681	0.015	2.824	0.008	1.608	2.570	0.078	0.020	11.077	170.235	2.582	0.323	4.420	18.084	0.0001
	TF	23.675	1.819	0.590	4.417	1.038	0.653	0.970	0.682	0.753	0.911	0.832	0.516	0.442	2.186	4.036
6	BCF _r	0.001	0.720	4.213	0.007	0.022	3.841	0.052	0.021	20.439	46.250	1.868	0.585	7.877	14.997	0.00004
	BCF _s	0.005	0.351	2.238	0.006	0.008	1.818	0.043	0.008	9.200	39.333	1.789	0.367	3.817	8.749	0.0001
	TF	3.892	0.487	0.531	0.823	0.351	0.473	0.829	0.369	0.450	0.850	0.958	0.627	0.485	0.583	4.122
7	BCF _r	0.033	0.644	3.733	0.004	1.278	2.620	0.080	0.030	16.643	88.500	2.178	0.843	7.443	11.684	0.00003
	BCF _s	0.907	0.381	1.917	0.010	0.770	0.921	0.100	0.016	10.099	91.938	2.254	0.373	3.097	12.552	0.0003
	TF	27.341	0.591	0.513	2.435	0.603	0.352	1.250	0.532	0.607	1.039	1.035	0.442	0.416	1.074	9.316
8	BCF _r	0.270	0.036	3.084	0.010	1.856	3.271	0.098	0.021	16.849	19.347	2.038	0.522	6.195	22.351	0.0003
	BCF _s	0.501	0.019	1.264	0.017	0.766	2.143	0.101	0.009	10.039	23.903	2.240	0.252	2.902	31.483	0.0003
	TF	1.854	0.534	0.410	1.797	0.413	0.655	1.026	0.410	0.596	1.235	1.099	0.482	0.468	1.409	1.218
9	BCF _r	0.320	0.041	4.969	0.018	1.224	7.022	0.108	0.097	21.600	146.901	2.593	1.115	7.749	15.040	0.0001
	BCF _s	1.196	0.012	1.946	0.010	0.393	2.670	0.113	0.040	14.182	171.696	2.426	0.402	3.964	34.045	0.0002
	TF	3.742	0.284	0.392	0.543	0.321	0.380	1.049	0.411	0.657	1.169	0.935	0.360	0.512	2.264	1.373

Samples	Factors	Elements														
		Cd	Cr	Cu	Ni	Pb	Zn	Al	Fe	K	Na	Mg	Mn	P	S	Ti
10	BCF _r	0.005	0.015	3.524	0.011	0.856	5.166	0.067	0.015	18.829	164.000	2.169	0.882	8.743	24.734	0.00003
	BCF _s	0.006	0.008	1.943	0.005	0.247	1.948	0.063	0.019	12.315	122.588	1.573	0.376	3.923	13.960	0.0001
	TF	1.353	0.551	0.551	0.407	0.289	0.377	0.948	1.321	0.654	0.747	0.725	0.426	0.449	0.564	2.973
11	BCF _r	0.004	0.780	3.015	0.010	1.546	1.327	0.093	0.012	20.668	11.553	3.156	0.675	8.005	15.046	0.0002
	BCF _s	0.010	1.455	1.239	0.012	1.374	1.152	0.130	0.012	8.058	15.326	3.524	0.324	2.918	16.971	0.0001
	TF	2.424	1.865	0.411	1.209	0.889	0.868	1.397	1.020	0.390	1.327	1.117	0.479	0.365	1.128	0.882
12	BCF _r	0.156	0.574	4.546	0.016	0.011	2.391	0.101	0.018	17.115	17.089	2.654	0.622	7.667	7.079	0.0001
	BCF _s	1.634	0.458	1.900	0.008	0.008	1.585	0.102	0.011	8.176	17.844	2.722	0.318	3.827	9.167	0.0001
	TF	10.453	0.797	0.418	0.507	0.721	0.663	1.008	0.602	0.478	1.044	1.025	0.511	0.499	1.295	1.453
13	BCF _r	0.188	0.009	4.313	0.003	1.059	1.251	0.131	0.082	12.746	152.900	2.530	0.547	4.664	13.723	0.0001
	BCF _s	0.637	0.021	1.831	0.018	0.546	0.382	0.157	0.044	6.505	206.000	3.357	0.263	3.115	15.467	0.0003
	TF	3.385	2.300	0.425	5.313	0.516	0.305	1.203	0.538	0.510	1.347	1.327	0.481	0.668	1.127	2.770
Average	BCF _r	0.080	0.221	4.111	0.007	0.784	2.943	0.087	0.033	16.682	99.422	2.387	0.714	7.085	14.253	0.0001
	BCF _s	0.495	0.219	1.986	0.011	0.497	1.461	0.091	0.020	9.406	97.978	2.317	0.335	3.259	15.888	0.0001
	TF	21.763	1.509	0.479	3.985	0.768	0.514	1.029	0.748	0.571	1.044	0.965	0.486	0.466	1.203	3.274
St. Dev	BCF _r	0.114	0.321	0.751	0.006	0.697	1.710	0.023	0.027	3.096	68.838	0.408	0.213	1.723	5.982	0.0001
	BCF _s	0.538	0.406	0.533	0.005	0.538	0.752	0.032	0.012	2.267	69.304	0.623	0.057	0.757	8.402	0.0001
	TF	30.153	0.980	0.069	3.573	0.397	0.173	0.179	0.427	0.122	0.202	0.164	0.085	0.076	0.551	2.184
St. Dev (%)	BCF _r	142.379	145.327	18.275	86.384	88.903	58.093	25.991	80.293	18.557	69.238	17.111	29.838	24.318	41.973	93.462
	BCF _s	108.590	185.788	26.829	40.837	108.328	51.489	35.628	61.503	24.097	70.734	26.884	16.962	23.242	52.886	45.976
	TF	138.550	64.937	14.331	89.659	51.706	33.659	17.350	57.068	21.400	19.311	16.975	17.463	16.252	45.787	66.699