

## SUPPLEMENTARY INFORMATION

Article

# Unveiling Metal Tolerance Mechanisms in *Leersia hexandra* Swartz under Cr/Ni Co-Pollution by Studying Endophytes and Plant Metabolites

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**Table S1.** Data preprocessing statistics and quality control.

Sample Name	Raw Reads	Clean Reads	Raw Tags	Clean Tags	Chimera	Effective Tags	Effective Ratio (%)
CK-1	125,810	125,739	124,684	123,412	7409	116,003	92.20
CK-2	125,496	125,442	124,311	122,824	16,560	106,264	84.68
CK-3	124,120	124,068	122,850	121,381	20,260	101,121	81.47
T-1	123,575	123,521	122,493	121,280	17,399	103,881	84.06
T-2	135,559	135,501	134,368	133,133	18,562	114,571	84.52
T-3	131,301	131,243	130,001	128,553	8666	119,887	91.31

**Table S2.** Edge table. The first two columns indicate the metabolite species and the last two columns indicate the correlation between the two, the significance of the correlation.

Compound_ID	Compounds	Phylum	cor	p_value
Com_11_pos	Tryptamine	Proteobacteria	-0.840380859	0.036183995
Com_154_pos	Serotonin	Proteobacteria	-0.869212411	0.024539503
Com_171_pos	L-Canavanine	Proteobacteria	-0.861091461	0.027603213
Com_329_pos	2-Aminoadipic acid	Proteobacteria	-0.873086623	0.023138411
Com_336_pos	Syringetin 3-O-hexoside	Proteobacteria	-0.874866107	0.022508033
Com_465_pos	Limocitrin O-hexoside	Proteobacteria	-0.8984472	0.014945801
Com_478_pos	2-Methoxyhexadecanoate	Proteobacteria	-0.8912878	0.017085115
Com_612_pos	Imidazole-4-acetate	Proteobacteria	-0.924498404	0.008335538
Com_645_pos	L-2-Aminoadipic acid	Proteobacteria	-0.844219541	0.034511122
Com_675_neg	Diosmetin	Proteobacteria	0.841699196	0.035605275
Com_745_neg	Lactose	Proteobacteria	-0.861542328	0.027428637
Com_894_neg	D-(+)-Cellobiose	Proteobacteria	-0.819246115	0.046055158
Com_966_neg	Coniferin	Proteobacteria	-0.849771967	0.032157485
Com_1095_neg	Isomaltulose	Proteobacteria	-0.826714915	0.042439903
Com_11_pos	Tryptamine	Bacteroidota	0.911573017	0.011383277
Com_154_pos	Serotonin	Bacteroidota	0.927503756	0.007693049
Com_171_pos	L-Canavanine	Bacteroidota	0.920410239	0.009249713
Com_183_pos	Valine	Bacteroidota	0.87052496	0.024060433
Com_329_pos	2-Aminoadipic acid	Bacteroidota	0.938298714	0.005593123
Com_330_pos	Aspartic acid di-O-glucoside	Bacteroidota	0.827344088	0.042141654
Com_336_pos	Syringetin 3-O-hexoside	Bacteroidota	0.937638791	0.005712122
Com_465_pos	Limocitrin O-hexoside	Bacteroidota	0.950865596	0.003561975
Com_478_pos	2-Methoxyhexadecanoate	Bacteroidota	0.958100997	0.002596512
Com_547_pos	Syringetin 5-O-hexoside	Bacteroidota	0.842220325	0.035377721
Com_612_pos	Imidazole-4-acetate	Bacteroidota	0.967974902	0.001521988
Com_645_pos	L-2-Aminoadipic acid	Bacteroidota	0.91520818	0.010479667
Com_675_neg	Diosmetin	Bacteroidota	-0.910125971	0.01175304
Com_726_neg	alpha,alpha-Trehalose	Bacteroidota	0.858939195	0.028443801
Com_745_neg	Lactose	Bacteroidota	0.919981343	0.009348299
Com_781_neg	Trehalose 6-phosphate	Bacteroidota	0.835434228	0.038394464
Com_894_neg	D-(+)-Cellobiose	Bacteroidota	0.897632897	0.015182182
Com_923_neg	Galactinol	Bacteroidota	0.860901423	0.027676953
Com_952_neg	Sucrose	Bacteroidota	0.815999287	0.047669605
Com_966_neg	Coniferin	Bacteroidota	0.906444116	0.012719622
Com_967_neg	Trifolin	Bacteroidota	0.8281348	0.041768223
Com_1075_neg	2,3-Dihydroxybenzoic acid	Bacteroidota	0.824044572	0.043716651
Com_1095_neg	Isomaltulose	Bacteroidota	0.882934946	0.019754197
Com_416_pos	Apo-13-zeaxanthinone	Firmicutes	0.846827145	0.03339602
Com_992_neg	Crocetin	Firmicutes	0.814367763	0.04849061