

Supplementary Materials: Iodine Biofortification Counters Micronutrient Deficiency and Improve Functional Quality of Open Field Grown Curly Endive

Leo Sabatino, Francesca Di Gaudio, Beppe Benedetto Consentino, Youssef Rouphael, Christophe El-Nakhel, Salvatore La Bella, Sonya Vasto, Rosario Paolo Mauro, Fabio D'Anna, Giovanni Iapichino, Rosalia Caldarella and Claudio De Pasquale

Table S1. Significance of three-way ANOVA analysis (growing season $\times$ iodine biofortification $\times$ year).

Variable	Growing season (G)	Iodine biofortification (I)	Year (Y)	G $\times$ I	G $\times$ Y	I $\times$ Y
Head fresh weight	NS	***	NS	NS	NS	NS
Head height	*	***	NS	NS	NS	NS
Stem diameter	NS	***	NS	NS	NS	NS
Number of leaves	NS	***	NS	*	NS	NS
Head dry matter	NS	***	NS	*	NS	NS
TA	NS	NS	NS	NS	NS	NS
SSC	NS	***	NS	NS	NS	NS
Ascorbic acid	***	***	NS	***	NS	NS
Total phenolic	***	***	NS	NS	NS	NS
Fructose	***	***	NS	*	NS	NS
Glucose	***	***	NS	***	NS	NS
Sucrose	NS	NS	NS	NS	NS	NS
N	*	NS	NS	NS	NS	NS
P	***	NS	NS	NS	NS	NS
K	NS	NS	NS	NS	NS	NS
Ca	***	***	NS	***	NS	NS
Mg	NS	NS	NS	NS	NS	NS
I	NS	***	NS	***	NS	NS

*** statistically significant differences at p -value below 0.001; * statistically significant differences at p -value below 0.05; NS non-significant.

Table S2. Eigenvalues, proportion of total variability and correlation between the 28 variables and the first four principal components (PCs).

Variable	PC1	PC2	PC3	PC4
Head fresh weight	0.969	-0.069	-0.209	-0.068
Head height	0.968	0.179	-0.101	-0.044
Stem diameter	0.986	0.081	-0.010	0.085
Number of leaves	0.985	0.103	-0.033	-0.035
Dry matter	0.455	0.639	0.418	0.103
TA	-0.353	-0.184	-0.303	0.855
SSC	0.965	-0.012	0.005	0.090
Ascorbic acid	-0.917	0.049	-0.252	-0.244
Total phenolic	-0.927	0.302	-0.184	-0.057

Fructose	0.090	0.925	0.260	0.048
Glucose	0.019	0.968	0.121	-0.114
Sucrose	0.291	-0.681	0.421	-0.323
N	0.268	-0.325	0.842	-0.301
P	0.053	-0.252	0.788	0.279
K	0.871	0.111	-0.047	0.470
Ca	-0.794	0.093	0.453	0.209
Mg	-0.416	-0.271	0.668	0.356
I	-0.286	0.859	0.348	-0.041
Eigenvalue	8.590	3.847	2.783	1.509
Variance %	47.721	21.373	15.460	8.384
Cumulative %	47.721	69.093	84.553	92.937
