Supplementary materials.

Table S1.
Free Soluble phenolic, Soluble Conjugated, Insoluble Bound acids in wholemeal.

a) Free Soluble phenolic acids (μg g^{-1}) in wholemeal

Genotype	Gallic acid	*p*-Hydroxybenzoic Acid	Vanillic acid	Caffeic acid	Syringic acid	Vanillin	Ferulic acid	Sinapic acid	*p*-coumaric acid	Trans-cinnamic acid	TPAs	Vitexin
Cappelli	4.55[a]	n.d.	n.d.	n.d.	n.d.	3.12[d]	n.d.	n.d.	n.d.	n.d.	7.67[b]	17.52[e]
Sfinge	4.32[c]	n.d.	n.d.	n.d.	n.d.	1.44[e]	n.d.	n.d.	n.d.	n.d.	5.76[e]	73.36[b]
Marco Aurelio	4.08[b]	n.d.	n.d.	n.d.	n.d.	3.36[c]	n.d.	n.d.	n.d.	n.d.	7.44[c]	75.04[a]
Nadif	4.4[b]	n.d.	n.d.	n.d.	n.d.	4.0[b]	n.d.	n.d.	n.d.	n.d.	8.40[a]	65.2[c]
Kronos	2.72[d]	n.d.	n.d.	n.d.	n.d.	4.32[a]	n.d.	n.d.	n.d.	n.d.	7.04[d]	54.88[d]

b) Soluble Conjugated phenolic acids (μg g^{-1}) in wholemeal

Genotype	Gallic acid	*p*-Hydroxybenzoic Acid	Vanillic acid	Caffeic acid	Syringic acid	Vanillin	Ferulic acid	Sinapic acid	*p*-coumaric acid	Trans-cinnamic acid	TPAs	Vitexin
Cappelli	n.d.	1.455[d]	6.95[d]	n.d.	1.45[d]	0.70[d]	6.345[e]	2.55[e]	n.d.	4.25[c]	23.71[e]	n.d.
Sfinge	n.d.	2.345[a]	8.75[a]	n.d.	2.30[b]	1.10[a]	12.40a	6.15[c]	n.d.	3.60[d]	36.65[a]	n.d.
Marco Aurelio	n.d.	2.25[b]	8.05[b]	n.d.	2.40[a]	0.90[b]	10.10[b]	10.245[a]	n.d.	2.02[e]	35.97[b]	n.d.
Nadif	n.d.	2.045[c]	7.50[c]	n.d.	1.65[c]	0.75[d]	6.80d	2.90[d]	n.d.	5.165[b]	26.81[d]	n.d.
Kronos	n.d.	2.25[b]	7.00[d]	n.d.	2.45[a]	0.80[c]	7.145[c]	7.10[b]	n.d.	5.85[a]	32.60[c]	n.d.

c) Insoluble Bound phenolic acids (μg g^{-1}) in wholemeal

Genotype	Gallic acid	*p*-Hydroxybenzoic Acid	Vanillic acid	Caffeic acid	Syringic acid	Vanillin	Ferulic acid	Sinapic acid	*p*-coumaric acid	Trans-cinnamic acid	TPAs	Vitexin
Cappelli	n.d.	1.95^{d}	7.92^{a}	0.80^{d}	2.48^{b}	3.01^{b}	480.365^{a}	12.045^{b}	15.085^{c}	n.d.	523.65^{a}	n.d.
Sfinge	n.d.	2.10^{c}	6.10^{c}	1.18^{b}	2.63^{a}	2.93^{b}	450.58^{c}	12.93^{b}	17.20^{a}	n.d.	495.65^{c}	n.d.
Marco Aurelio	n.d.	2.68^{b}	7.18^{b}	1.04^{c}	2.13^{d}	3.22^{a}	469.46^{b}	10.12^{c}	15.29^{b}	n.d.	511.12^{b}	n.d.
Nadif	n.d.	2.90^{a}	5.53^{e}	0.57^{e}	2.24^{c}	2.51^{d}	421.23^{d}	7.11^{d}	11.31^{d}	n.d.	453.40^{d}	n.d.
Kronos	n.d.	1.55^{e}	5.78^{d}	1.37^{a}	2.22^{cd}	2.64^{c}	369.87^{e}	7.18^{d}	9.23^{e}	n.d.	399.84^{e}	n.d.

Results are expressed as μg g^{-1} of flour on a dry sample weight basis. Data are represented as mean ±standard deviation of three replicate extractions. The same letter indicates no statistical difference, whereas different letters stand for significant statistical difference ($P < 0.05$; Tukey's test).

Table S2.
Free Soluble phenolic, Soluble Conjugated, Insoluble Bound acids in semolina

a) Free Soluble phenolic acids (µg g^{-1}) in semolina

Genotype	Gallic acid	*p*-Hydroxybenzoic Acid	Vanillic acid	Caffeic acid	Syringic acid	Vanillin	Ferulic acid	Sinapic acid	*p*-coumaric acid	Trans-cinnamic acid	TPAs	Vitexin
Cappelli	1.36^{b}	n.d.	1.52^{a}	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	2.88^{b}	12.08^{a}
Sfinge	0.8^{d}	n.d.	1.12^{c}	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	1.92^{b}	n.d.
Marco Aurelio	3.2^{a}	n.d.	1.36^{b}	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	4.56^{a}	8^{c}
Nadif	0.88^{e}	n.d.	1.36^{b}	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	2.24^{c}	n.d.
Kronos	1.205^{c}	n.d.	1.04^{c}	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	2.25^{c}	10.4^{b}

b) Soluble Conjugated phenolic acids (µg g^{-1}) in semolina

Genotype	Gallic acid	*p*-Hydroxybenzoic Acid	Vanillic acid	Caffeic acid	Syringic acid	Vanillin	Ferulic acid	Sinapic acid	*p*-coumaric acid	Trans-cinnamic acid	TPAs	Vitexin
Cappelli	n.d.	0.555^{c}	1.325^{c}	n.d.	n.d.	0.405^{c}	1.365^{e}	2.38^{c}	n.d.	n.d.	6.03^{c}	n.d.
Sfinge	n.d.	1.01^{b}	2.03^{b}	n.d.	n.d.	0.09^{e}	2.285^{c}	2.99^{b}	n.d.	n.d.	8.41^{b}	n.d.
Marco Aurelio	n.d.	0.99^{b}	2.045^{b}	n.d.	n.d.	0.77^{a}	2.42^{b}	2.225^{d}	n.d.	n.d.	8.45^{b}	n.d.
Nadif	n.d.	0.445^{d}	1.25^{c}	n.d.	n.d.	0.32^{d}	2.045^{d}	2.4^{c}	n.d.	n.d.	6.46^{c}	n.d.
Kronos	n.d.	1.36^{a}	2.92^{a}	n.d.	n.d.	0.61^{b}	3.045^{a}	4.41^{a}	n.d.	n.d.	12.35^{a}	n.d.

c) Insoluble Bound phenolic acids (μg g^{-1}) in semolina

Genotype	Gallic acid	*p*-Hydroxybenzoic Acid	Vanillic acid	Caffeic acid	Syringic acid	Vanillin	Ferulic acid	Sinapic acid	*p*-coumaric acid	Trans-cinnamic acid	TPAs	Vitexin
Cappelli	n.d.	0.62^{a}	0.66^{c}	n.d.	0.32^{b}	1.87^{b}	63.7^{a}	1.14^{c}	1.675^{c}	n.d.	69.99^{a}	n.d.
Sfinge	n.d.	0.35^{c}	0.395^{e}	n.d.	0.24^{d}	1.91^{ab}	55.44^{d}	1.335^{b}	1.41^{d}	n.d.	61.08^{c}	n.d.
Marco Aurelio	n.d.	0.48^{b}	1.08^{a}	n.d.	0.725^{a}	0.43^{d}	59.845^{b}	1.45^{a}	2.045^{a}	n.d.	66.06^{b}	n.d.
Nadif	n.d.	0.23^{d}	0.59^{d}	n.d.	0.25^{c}	1.94^{a}	56.11^{c}	1.12^{c}	1.23^{e}	n.d.	61.47^{c}	n.d.
Kronos	n.d.	0.46^{b}	0.935^{b}	n.d.	0.3^{bc}	1.105^{c}	52.8^{e}	1.37^{b}	1.735^{b}	n.d.	58.71^{d}	n.d.

Results are expressed as μg g^{-1} of flour on a dry sample weight basis. Data are represented as mean ±standard deviation of three replicate extractions. The same letter indicates no statistical difference, whereas different letters stand for significant statistical difference ($P < 0.05$; Tukey's test).