

Supplementary Materials

Table S1: Chromatographic conditions of the used methods.

Method	Compounds of interest	Stationary phase	Mobile phase	Analysis	Flow (mL min ⁻¹)	Wavelength (nm)
A	cinnamic acids, flavonols	KINETEX—C18 column (4.6 × 150 mm, 5 µm)	A: 10 mM KH ₂ PO ₄ /H ₃ PO ₄ , pH = 2.8 B: CH ₃ CN	gradient analysis: 5% B to 21% B in 17 min + 21% B in 3 min	1.5	330
B	benzoic acids, catechins, tannins	KINETEX—C18 column (4.6 × 150 mm, 5 µm)	A: H ₂ O/CH ₃ OH/HCOOH (5:95:0.1, v/v/v), pH = 2.5 B: CH ₃ OH/HCOOH (100:0.1, v/v)	gradient analysis: 3% B to 85% B in 22 min + 85% B in 1 min	0.6	280
C	monoterpene	KINETEX—C18 column (4.6 × 150 mm, 5 µm)	A: H ₂ O B: CH ₃ CN	gradient analysis: 30% B to 56% B in 15 min + 56% B in 2 min	1.0	210-250
D	organic acids	KINETEX—C18 column (4.6 × 150 mm, 5 µm)	A: 10 mM KH ₂ PO ₄ /H ₃ PO ₄ , pH = 2.8 B: CH ₃ CN	gradient analysis: 5% B to 14.4% B in 10 min + 14.4% B in 2 min	0.6	214
E	vitamins	KINETEX—C18 column (4.6 × 150 mm, 5 µm)	A: 50 mM KH ₂ PO ₄ B: 5 mM C ₁₆ H ₃₃ N(CH ₃) ₃ Br/CH ₃ OH/H ₂ O (5:95, v/v)	isocratic analysis: ratio of phase A and B: 95:5 in 10 min	0.9	261, 348
F	sugars	SphereClone—NH ₂ column (4.6 × 250 mm, 5 µm)	A: H ₂ O B: CH ₃ CN	isocratic analysis: ratio of phase A and B: 5:85 in 12 min	0.5	267

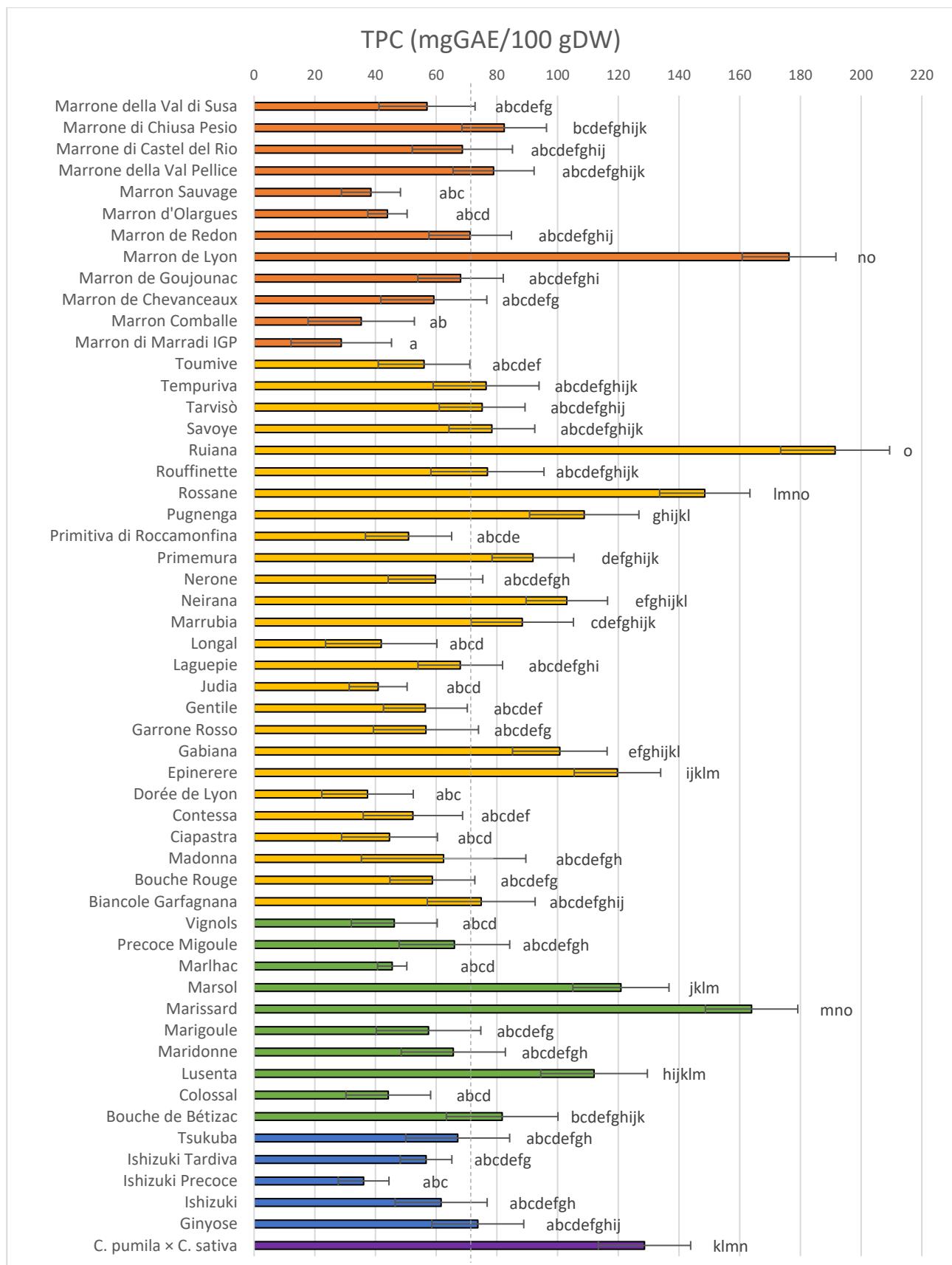


Figure S1: Total polyphenol content of the 54 chestnut cultivars. Different letters for each cultivar indicate the significant differences at $p < 0.05$. Orange colour: marrone-type chestnut (MT); yellow colour: sweet chestnut (SC); green colour: Euro-Japanese hybrid (EH); blue colour: Japanese chestnut (JC); purple colour: C. pumila hybrid (PH). The dashed line indicates the average.

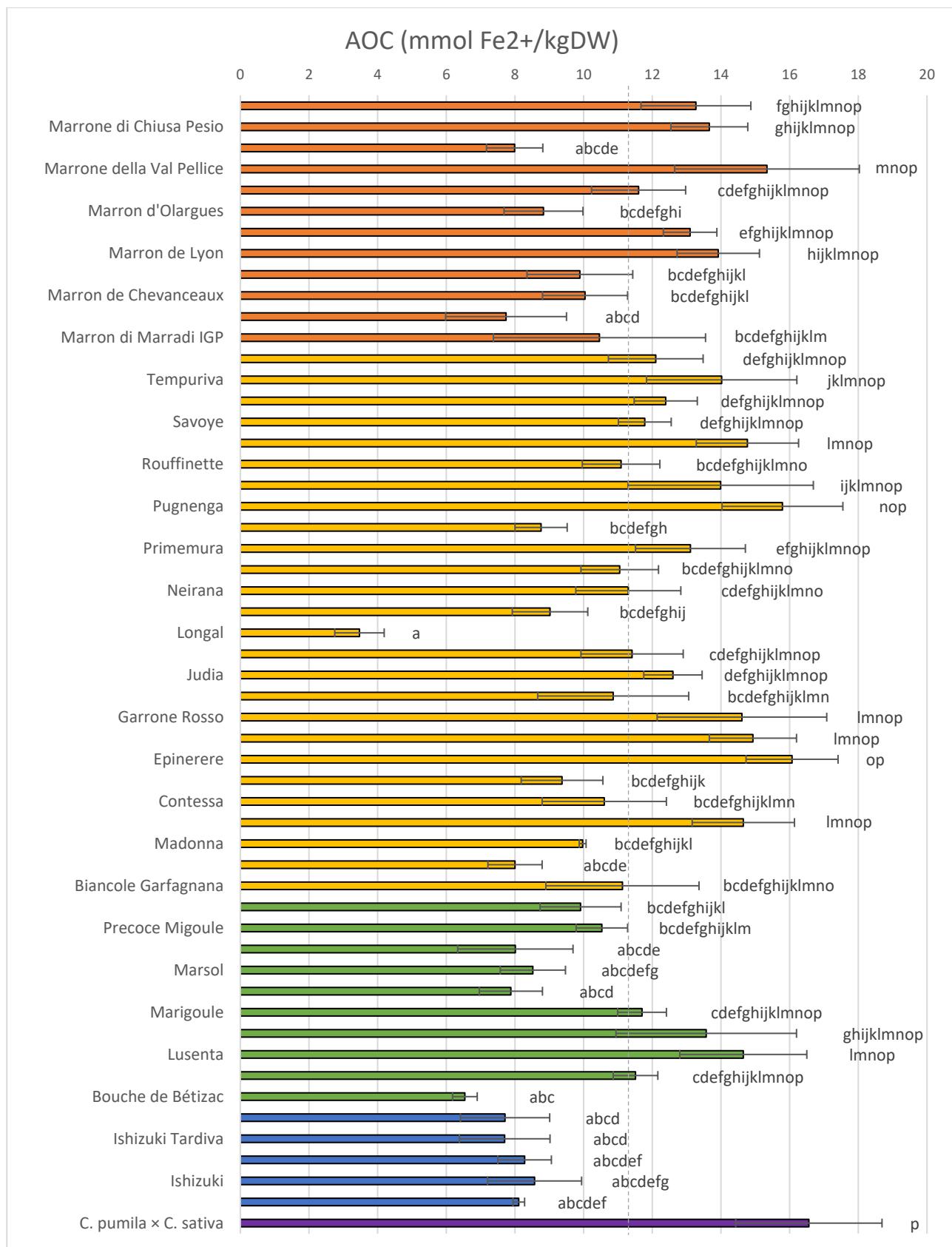


Figure S2: Antioxidant activity of the 54 chestnut cultivars. Different letters for each cultivar indicate the significant differences at $p < 0.05$. Orange colour: marrone-type chestnut (MT); yellow colour: sweet chestnut (SC); green colour: Euro-Japanese hybrid (EH); blue colour: Japanese chestnut (JC); purple colour: C. pumila hybrid (PH). The dashed line indicates the average.

Table S2: Chestnut phytochemical class profiles.

Cv. Type	Cultivar	ID	Cinnamic Acids (mg/100 g _{DW})	Flavonols (mg/100 g _{DW})	Benzoic Acids (mg/100 g _{DW})	Catechins (mg/100 g _{DW})	Tannins (mg/100 g _{DW})	Monoterpenes (mg/100 g _{DW})	Vitamin C (mg/100 g _{DW})
PH	<i>C. pumila × C. sativa</i>	K24	43.48 ± 1.43 ^y	12.66 ± 0.40 ^{ij}	3.30 ± 0.58 ^{abcde}	25.89 ± 1.21 ^{qr}	27.14 ± 0.05 ^{defg}	1.32 ± 0.07 ^a	9.45 ± 0.03 ^r
JC	Ginyose	D18	15.23 ± 0.05 ^{ghijklmnopqr}	1.28 ± 0.43 ^{abc}	2.16 ± 0.40 ^{abc}	73.09 ± 4.26 ^t	4.68 ± 0.10 ^a	97.21 ± 2.22 ^{abcdef}	n.d.
	Ishizuki	F23	14.42 ± 0.10 ^{fghijklmn}	n.d.	0.62 ± 0.20 ^a	13.99 ± 0.14 ^{abcdef}	11.91 ± 0.15 ^{abcd}	129.03 ± 1.22 ^{abcdef}	n.d.
	Ishizuki Precoce	O15	21.73 ± 0.21 ^{xy}	7.18 ± 0.39 ^{defghij}	0.72 ± 0.01 ^a	22.95 ± 0.03 ^{mnopqr}	7.30 ± 0.03 ^{abc}	n.d.	7.40 ± 0.26 ^{pq}
EH	Ishizuki Tardiva	E17	6.46 ± 0.01 ^{bc}	n.d.	0.57 ± 0.02 ^a	7.95 ± 0.08 ^{abc}	17.87 ± 0.21 ^{abcdef}	14.41 ± 0.04 ^{abcd}	n.d.
	Tsukuba	G14	0.62 ± 0.02 ^a	1.36 ± 0.03 ^{abc}	0.87 ± 0.03 ^{ab}	6.80 ± 0.84 ^{ab}	13.43 ± 0.03 ^{abcd}	75.81 ± 2.05 ^{abcde}	n.d.
	Bouche de Bétizac	I10	12.65 ± 0.04 ^{ghij}	n.d.	4.44 ± 0.05 ^{abcdef}	14.37 ± 0.03 ^{bcdedghijk}	12.04 ± 0.05 ^{abcd}	n.d.	5.87 ± 0.10 ^{jklm}
EH	Colossal	M22	14.78 ± 0.05 ^{fghijklmn}	1.19 ± 0.12 ^{abc}	2.77 ± 0.07 ^{abcd}	12.94 ± 1.40 ^{abcdefghi}	16.02 ± 0.14 ^{abcde}	169.37 ± 9.44 ^{abcdefg}	n.d.
	Lusenta	M15	20.46 ± 0.09 ^{wxy}	11.49 ± 0.36 ⁱ	12.13 ± 0.12 ^{hiijklmn}	18.81 ± 0.05 ^{ghijklmnopq}	21.38 ± 0.15 ^h	n.d.	10.25 ± 0.09 ^s
	Maridonne	J14	22.14 ± 0.29 ^{yz}	3.36 ± 0.16 ^{abcdefgh}	0.50 ± 0.08 ^a	5.30 ± 0.64 ^a	22.34 ± 0.79 ^{abcdef}	420.32 ± 6.38 ^{bcdefghi}	3.82 ± 0.06 ^{e,fgh}
	Marigoule	J13	12.05 ± 0.09 ^{efgh}	6.57 ± 0.02 ^{cdefghij}	1.86 ± 0.01 ^{abc}	15.44 ± 0.12 ^{cdefghijklm}	9.76 ± 0.02 ^{abcd}	n.d.	9.20 ± 0.06 ^r
	Marissard	N14	18.85 ± 0.01 ^{qrstuvwxyz}	n.d.	7.86 ± 0.03 ^{cdefghij}	11.11 ± 0.02 ^{abcdefg}	7.96 ± 0.12 ^{abc}	n.d.	5.56 ± 0.01 ^{ijkl}
	Marlzac	K05	2.28 ± 0.01 ^a	n.d.	16.53 ± 0.01 ^{nopq}	19.31 ± 0.02 ^{ijklmnopq}	8.64 ± 0.08 ^{abc}	n.d.	5.78 ± 0.09 ^{ijkl}
	Marsol	F06	14.74 ± 0.03 ^{fghijklmn}	n.d.	14.94 ± 0.02 ^{klmnopq}	22.95 ± 0.02 ^{mnopqr}	16.52 ± 0.41 ^{abcde}	n.d.	n.d.
	Precoce Migoule	G18	17.29 ± 0.02 ^{mnopqrstuvwxyz}	n.d.	0.43 ± 0.01 ^a	13.66 ± 0.01 ^{bcdedghij}	11.90 ± 0.18 ^{abcd}	n.d.	5.55 ± 0.01 ^{ijkl}
	Vignols	I17	19.62 ± 0.42 ^{uvwxyz}	2.22 ± 0.14 ^{ghij}	16.21 ± 0.04 ^{nopq}	23.99 ± 0.37 ^{pqr}	34.97 ± 0.24 ^{fgh}	901.68 ± 4.21 ^{lm}	12.32 ± 0.01 ^t
	Biancole Garfagnana	B03	13.28 ± 0.09 ^{fghijk}	n.d.	9.05 ± 0.55 ^{defghijk}	20.83 ± 0.29 ^{ijklmnopq}	9.98 ± 0.46 ^{abcd}	259.23 ± 9.99 ^{abcdefghi}	n.d.
SC	Bouche Rouge	I18	15.85 ± 0.16 ^{ijklmnopqr}	0.43 ± 0.09 ^a	2.34 ± 0.21 ^{abc}	5.71 ± 0.90 ^a	12.05 ± 0.37 ^{abcd}	107.21 ± 5.83 ^{abcdef}	5.95 ± 0.01 ^{jklm}
	Ciapastrà	T02	11.17 ± 0.28 ^{def}	1.40 ± 0.03 ^{abcdefghi}	7.49 ± 0.81 ^{cdefghi}	18.74 ± 3.36 ^{cdefghijkl}	24.39 ± 0.09 ^{bcdedfg}	224.21 ± 13.26 ^{abcdefg}	3.19 ± 0.06 ^d
	Contessa	L02	16.35 ± 0.13 ^{ijklmnopqrstu}	0.23 ± 0.08 ^a	17.52 ± 1.97 ^{nopq}	10.22 ± 0.90 ^{abcdef}	10.93 ± 0.11 ^{abcd}	588.06 ± 30.76 ^{ghij}	n.d.
	Dorée de Lyon	H23	17.04 ± 0.06 ^{klmnopqrstuvwxyz}	1.15 ± 0.05 ^{abc}	5.65 ± 0.04 ^{abcdefg}	18.97 ± 0.03 ^{ijklmnopq}	5.44 ± 0.09 ^a	n.d.	6.87 ± 0.09 ^{op}
	Epinerere	M16	28.21 ± 0.39 ^{ab}	1.85 ± 0.45 ^{abcd}	6.55 ± 0.01 ^{abcdefg}	18.93 ± 0.66 ^{hijklmnopq}	21.07 ± 0.07 ^{abcdef}	234.33 ± 2.17 ^{abcdefg}	1.38 ± 0.43 ^b

	Gabiana	O03	$18.48 \pm 0.29^{opqrstuvwxyz}$	n.d.	$11.45 \pm 0.12^{ghijklmn}$	23.30 ± 0.19^{nopqr}	11.69 ± 0.27^{abcd}	625.93 ± 35.08^{jkl}	3.61 ± 0.23^{def}
	Garrone Rosso	I03	$18.99 \pm 0.13^{rstuvwxyz}$	n.d.	15.59 ± 0.35^{lmnopq}	$15.82 \pm 0.51^{defghijklmn}$	18.58 ± 0.21^{abcdef}	815.87 ± 19.80^{klm}	5.90 ± 0.02^{jklm}
	Gentile	P12	4.06 ± 0.03^{ab}	1.59 ± 0.05^{abcd}	3.67 ± 0.05^{abcdef}	23.52 ± 0.41^{nopqr}	12.70 ± 0.11^{abcd}	n.d.	5.42 ± 0.39^{ijk}
	Judia	F21	$31.70 \pm 0.63^{\beta}$	7.53 ± 1.36^{efghij}	4.86 ± 0.45^{abcdef}	$18.31 \pm 0.14^{cdefghijklm}$	15.03 ± 0.16^{abcde}	$185.34 \pm 5.72^{abcdefg}$	3.14 ± 0.62^d
	Laguepie	H24	$18.04 \pm 0.09^{nopqrstuvwxyz}$	3.18 ± 0.01^{abcdefg}	13.15 ± 0.12^{ijklmnp}	29.42 ± 0.05^r	15.95 ± 0.58^{abcde}	540.38 ± 0.25^{ijk}	6.00 ± 0.13^{klmn}
	Longal	E16	25.83 ± 0.10^{za}	8.62 ± 0.03^{hij}	$11.97 \pm 0.01^{hijklmno}$	9.50 ± 0.51^{abcdef}	15.54 ± 0.44^{abcde}	$725.50 \pm 6.30^{abcdefghi}$	3.45 ± 0.15^{de}
	Marrubia	Q13	13.43 ± 0.36^{fghijkl}	1.74 ± 0.04^{abcd}	1.57 ± 0.05^{abc}	$14.83 \pm 0.07^{cdefghijkl}$	10.18 ± 0.17^{abcd}	n.d.	4.20 ± 0.14^{fgh}
	Neirana	U09	20.02 ± 0.15^{uvwxyz}	0.27 ± 0.05^a	18.62 ± 0.46^{pq}	8.33 ± 1.00^{abcd}	21.11 ± 0.22^{abcdef}	517.13 ± 17.73^{hijk}	n.d.
	Nerone	H08	$18.77 \pm 0.02^{pqqrstuvwxyz}$	n.d.	7.13 ± 0.36^{bcdefghi}	10.43 ± 0.19^{abcdef}	6.31 ± 0.34^{ab}	$241.59 \pm 11.21^{abcdefg}$	5.96 ± 0.19^{jklm}
	Primemura	X05	$17.34 \pm 0.21^{fghijklm}$	1.40 ± 0.15^{abc}	1.82 ± 0.20^{abcdef}	$14.14 \pm 2.17^{bcdefghij}$	24.79 ± 0.43^{cdefg}	$351.46 \pm 10.60^{defghij}$	3.84 ± 0.08^{efgh}
	Primitiva di Roccamontagna	I07	$19.32 \pm 0.12^{stuvwxyz}$	n.d.	2.29 ± 0.04^{abc}	23.76 ± 0.16^{opqr}	8.42 ± 0.25^{abc}	1.63 ± 0.41^a	5.73 ± 0.02^{jkl}
	Pugnenga	P04	$62.89 \pm 0.22^{\delta}$	$6.24 \pm 0.04^{bcdefghij}$	17.41 ± 0.06^{nopq}	23.79 ± 0.29^{opqr}	14.22 ± 0.34^{abcde}	28.20 ± 0.15^{ab}	5.50 ± 0.16^{ijkl}
	Rossane	N13	12.84 ± 0.45^{fghij}	1.81 ± 0.02^{abcd}	26.73 ± 0.02^r	26.10 ± 0.41^{qr}	14.91 ± 0.35^{abcde}	n.d.	5.79 ± 0.13^{jkl}
	Rouffinette	O11	12.36 ± 0.13^{fghi}	0.98 ± 0.01^{abc}	$11.44 \pm 0.01^{ghijklmn}$	25.70 ± 0.37^{qr}	5.78 ± 0.09^a	17.00 ± 0.13^{abc}	5.38 ± 0.01^{ij}
	Ruiana	T11	$19.00 \pm 0.03^{rstuvwxyz}$	2.24 ± 0.03^{abcde}	16.93 ± 0.01^{nopq}	$11.99 \pm 0.02^{abcdefghi}$	10.99 ± 0.08^{abcd}	1300.55 ± 10.66^o	n.d.
	Savoye	J16	$15.75 \pm 0.09^{hijklmnpqrs}$	n.d.	5.31 ± 0.13^{abcdefg}	22.15 ± 0.92^{lmnopqr}	8.50 ± 0.63^{abc}	$201.46 \pm 13.64^{abcdefg}$	6.86 ± 0.10^{op}
	Tarvisò	U06	9.44 ± 0.60^{fghi}	$4.92 \pm 0.23^{abcdefghi}$	21.60 ± 0.02^{klmnopq}	11.78 ± 0.51^{abcde}	17.59 ± 0.27^{abcdef}	724.62 ± 20.74^{ijk}	4.32 ± 0.03^h
	Tempuriva	O12	$17.87 \pm 0.05^{mnopqrstuvwxyz}$	2.10 ± 0.02^{abcde}	5.10 ± 0.12^{abcdef}	8.32 ± 0.16^{abcd}	21.82 ± 0.15^{abcdef}	n.d.	1.12 ± 0.31^b
	Toumive	D11	11.47 ± 0.10^{efg}	1.74 ± 0.05^{abcd}	9.86 ± 0.02^{fghijklm}	39.40 ± 0.34^s	7.44 ± 0.05^{abc}	n.d.	6.44 ± 0.17^{mno}
MT	Marron di Marradi IGP	C03	7.57 ± 0.03^{bcd}	0.47 ± 0.01^a	6.43 ± 0.04^{abcdefg}	$13.68 \pm 0.07^{bcdefghij}$	40.92 ± 0.05^{gh}	557.30 ± 3.61^{fghij}	5.79 ± 0.06^{ijkl}
	Marron Comballe	G19	$14.27 \pm 0.38^{fghijklmn}$	1.04 ± 0.03^{abc}	3.77 ± 0.03^{abcdef}	$14.16 \pm 0.06^{bcdefghij}$	5.53 ± 0.24^a	$264.76 \pm 2.11^{abcdefghi}$	4.15 ± 0.01^{fgh}
	Marron de Chevanceaux	L14	$15.17 \pm 0.20^{ghijklmnpq}$	0.35 ± 0.26^a	1.79 ± 0.01^{abc}	9.06 ± 0.57^{abcdef}	7.19 ± 0.19^{abc}	6.75 ± 0.01^a	n.d.
	Marron de Goujounac	F20	$15.57 \pm 0.08^{hijklmnpqrs}$	0.35 ± 0.04^a	6.39 ± 0.18^{abcdefg}	$15.84 \pm 2.24^{defghijklmn}$	5.66 ± 0.30^a	$320.08 \pm 17.84^{bcdefghi}$	n.d.
	Marron de Lyon	G23	$15.34 \pm 0.47^{hijklmnpqr}$	0.16 ± 0.02^a	9.07 ± 0.76^{efghijk}	21.19 ± 0.51^{jklmnpq}	8.18 ± 0.09^{abc}	$337.78 \pm 26.97^{cdefghij}$	6.08 ± 0.53^{lmn}
	Marron de Redon	K22	$15.07 \pm 0.13^{ghijklmnp}$	7.98 ± 0.01^{fghij}	7.25 ± 0.08^{cdefghi}	$21.91 \pm 0.09^{jklmnpqr}$	8.92 ± 0.63^{abcd}	8.81 ± 0.03^a	5.24 ± 0.04^i

Marron d'Olargues	F18	$15.04 \pm 0.15^{ghijklmno}$	9.44 ± 0.01^{ij}	15.76 ± 0.01^{mnopq}	19.64 ± 0.29^{ijklmno}	4.27 ± 0.07^a	n.d.	6.42 ± 0.09^{mno}
Marron Sauvage	K20	8.38 ± 0.30^{de}	2.66 ± 0.02^{abcdefg}	4.57 ± 0.01^{abcdef}	$16.23 \pm 0.05^{efghijklmno}$	5.70 ± 0.08^a	n.d.	6.62 ± 0.29^{no}
Marrone della Val Pellice	V07	6.27 ± 0.13^{bc}	n.d.	$9.48 \pm 0.04^{efghijklm}$	19.64 ± 0.01^{ijklmno}	9.56 ± 0.08^{abcd}	n.d.	6.59 ± 0.24^{no}
Marrone di Castel del Rio	G08	$16.79 \pm 0.16^{klmnoqrstuv}$	0.24 ± 0.09^a	16.96 ± 0.69^{nopq}	8.14 ± 0.62^{abcd}	8.24 ± 0.02^{abc}	530.06 ± 25.98^{ijk}	n.d.
Marrone di Chiusa Pesio	G02	$17.04 \pm 0.18^{klmnoqrstuv}$	n.d.	14.02 ± 0.30^{ijklmno}	$14.49 \pm 0.14^{abcdefgh}$	31.95 ± 0.62^{efgh}	$364.32 \pm 11.05^{efghij}$	7.62 ± 0.41^q
Marrone della Val di Susa	P16	$14.29 \pm 0.52^{fghijklmn}$	2.15 ± 0.04^{abcde}	6.53 ± 0.07^{abcdefgh}	$11.99 \pm 0.06^{abcdefghi}$	7.21 ± 0.06^{abc}	n.d.	2.26 ± 0.32^c

Mean value \pm standard deviation of each sample is given ($n = 3$). Different letters (a, b, c, \dots, δ) for each descriptor indicate the significant differences at $p \leq 0.05$. N.d.: not detected. C. pumila hybrid (PH); Japanese chestnut (JC); Euro-Japanese hybrid (EH); sweet chestnut (SC); marrone-type chestnut (MT).

Table S3: Nutritional properties of analyzed chestnut cultivars.

Cv. Type	Cultivar	ID	Organic Acids	Sugars
			(mg/100 g _{DW})	(g/100 g _{DW})
PH	<i>C. pumila</i> × <i>C. sativa</i>	K24	713.44 ± 40.43 ^{abcdefghijklm}	19.43 ± 1.22 ^{abcdefghijklm}
	Ginyose	D18	881.68 ± 16.25 ^{abcdefghijklm}	4.55 ± 1.30 ^{abc}
	Ishizuki	F23	719.86 ± 167.71 ^{abcdefghijklm}	16.93 ± 0.28 ^{abcdefghijklm}
JC	Ishizuki Precoce	O15	909.26 ± 27.73 ^{abcdefghijklm}	3.84 ± 0.06 ^{ab}
	Ishizuki Tardiva	E17	575.76 ± 64.68 ^{abcdefghijklm}	4.28 ± 1.88 ^{abc}
	Tsukuba	G14	550.08 ± 107.04 ^{abcdefghijklm}	2.74 ± 0.86 ^a
EH	Bouche de Bétizac	I10	324.23 ± 2.25 ^{abcdef}	36.25 ± 0.14 ^{ghijklm}
	Colossal	M22	810.28 ± 43.29 ^{abcdefghijklm}	5.82 ± 0.65 ^{abcdefghijklm}
	Lusenta	M15	935.62 ± 2.51 ^{bcdefghij}	6.49 ± 1.31 ^{abcde}
	Maridonne	J14	607.84 ± 25.71 ^{abcdefghijklm}	15.03 ± 1.03 ^{abcdefghijklm}
	Marigoule	J13	982.77 ± 1.34 ^{cdefghij}	3.53 ± 1.47 ^{ab}
	Marissard	N14	1171.26 ± 0.90 ^{fghijkl}	49.56 ± 0.35 ^{fghijklm}
	Marlhac	K05	577.82 ± 0.64 ^{abcdefghijklm}	30.99 ± 1.12 ^{cdefghijklm}
	Marsol	F06	1386.06 ± 42.83 ^{ijklm}	40.08 ± 0.61 ^{ijklm}
	Precoce Migoule	G18	1879.03 ± 4.06 ^l	4.37 ± 1.96 ^{abc}
	Vignols	I17	1454.87 ± 209.16 ^{ikl}	51.83 ± 0.02 ^{klm}
SC	Biancole Garfagnana	B03	849.24 ± 18.13 ^{abcdefghijklm}	4.83 ± 1.51 ^{abcd}
	Bouche Rouge	I18	561.78 ± 46.22 ^{abcdefghijklm}	3.04 ± 0.04 ^{ab}
	Ciapastrà	T02	566.00 ± 45.60 ^{abcdefghijklm}	16.88 ± 0.12 ^{abcdefghijklm}
	Contessa	L02	459.03 ± 115.60 ^{abcdefghijklm}	25.56 ± 1.79 ^{abcdefghijklm}
	Dorée de Lyon	H23	493.96 ± 1.67 ^{abcdefghijklm}	3.27 ± 0.03 ^{ab}
	Epinerere	M16	309.97 ± 60.02 ^{abcdefghijklm}	15.24 ± 1.54 ^{abcdefghijklm}
	Gabiana	O03	637.77 ± 82.34 ^{abcdefghijklm}	13.89 ± 0.29 ^{abcdefghijklm}
	Garrone Rosso	I03	899.78 ± 57.79 ^{abcdefghijklm}	3.02 ± 1.53 ^{abcde}
	Gentile	P12	172.38 ± 55.48 ^{abcdefghijklm}	3.78 ± 1.21 ^{ab}
	Judia	F21	281.40 ± 53.12 ^{abc}	9.18 ± 1.66 ^{abcdef}
	Laguepie	H24	1449.85 ± 0.66 ^{defghijk}	31.37 ± 0.01 ^{defghijklm}
	Longal	E16	860.25 ± 14.53 ^{abcdefghijklm}	12.42 ± 3.67 ^{abcdefghijklm}
	Marrubia	Q13	976.44 ± 0.78 ^{cdefghij}	7.61 ± 0.03 ^{abcde}
	Neirana	U09	707.23 ± 57.63 ^{abcdefghijklm}	17.27 ± 0.64 ^{abcdefghijklm}
	Nerone	H08	716.63 ± 90.25 ^{abcdefghijklm}	13.83 ± 0.49 ^{abcdefghijklm}
	Primemura	X05	678.40 ± 22.25 ^{abcdefghijklm}	4.28 ± 1.40 ^{abc}
	Primitiva di Roccamonfina	I07	1390.76 ± 97.89 ^{cdefghij}	6.30 ± 0.96 ^{abcde}
	Pugnenga	P04	894.59 ± 0.98 ^{abcdefghijklm}	57.19 ± 3.74 ^m

	Rossane	N13	$1151.17 \pm 107.96^{defghijk}$	10.75 ± 2.21^{abcdefg}
	Rouffinette	O11	1420.24 ± 0.62^{ijkl}	$32.22 \pm 1.52^{efghijklm}$
	Ruiana	T11	$966.65 \pm 7.70^{cdefghij}$	$29.34 \pm 0.17^{bcdefghijkl}$
	Savoye	J16	349.81 ± 34.71^{abcd}	7.11 ± 0.05^{abcde}
	Tarvisò	U06	$683.63 \pm 46.99^{abcdefghi}$	11.02 ± 0.38^{abcdef}
	Tempuriva	O12	217.13 ± 4.28^{abc}	12.88 ± 0.03^{abcdefg}
	Toumive	D11	$1259.86 \pm 6.18^{bcdefghij}$	53.78 ± 0.33^{lm}
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MT	Marron di Marradi IGP	C03	$809.08 \pm 3.62^{abcdefghij}$	4.93 ± 0.02^{abcd}
	Marron Comballe	G19	$709.03 \pm 69.35^{abcdefghij}$	5.74 ± 2.50^{abcde}
	Marron de Chevanceaux	L14	351.39 ± 58.12^{abcde}	11.66 ± 0.26^{abcde}
	Marron de Goujounac	F20	$575.06 \pm 12.04^{abcdefg}$	4.90 ± 0.58^{ab}
	Marron de Lyon	G23	$553.51 \pm 32.28^{abcdefgh}$	7.10 ± 1.55^{abcde}
	Marron de Redon	K22	$895.34 \pm 0.32^{abcdefghij}$	52.43 ± 2.52^{lm}
	Marron d'Olargues	F18	$804.68 \pm 10.78^{abcdefghij}$	$31.84 \pm 0.65^{abcdefgij}$
	Marron Sauvage	K20	1419.77 ± 54.86^{ijkl}	5.21 ± 2.11^{abcd}
	Marrone della Val Pellice	V07	$1574.82 \pm 0.15^{ghijkl}$	$6.44 \pm 2.28^{abcdefghi}$
	Marrone di Castel del Rio	G08	$942.16 \pm 35.47^{cdefghij}$	3.12 ± 1.41^{ab}
	Marrone di Chiusa Pesio	G02	$826.84 \pm 73.81^{abcdefgij}$	$21.81 \pm 1.37^{abcdefgij}$
	Marrone della Val di Susa	P16	1809.85 ± 70.63^{kl}	$26.36 \pm 0.36^{abcdefgij}$

Mean value and standard deviation of each sample is given ($n = 3$). Different letters (a, b, c, \dots, m) for each descriptor indicate the significant differences at $p \leq 0.05$. C. pumila hybrid (PH); Japanese chestnut (JC); Euro-Japanese hybrid (EH); Sweet chestnut (SC); Marrone-type chestnut (MT).