

Supplementary data

Table S1: Inhibition percentage of the 5 antioxidant assays per species for the 4 fractions and the total extract. The final concentration tested was 25 µg/mL. Activity percentages of fractions that are identical to those of the crude extract (rows) are noted * for significant values $p < 0.001$ according to Dunnett's test. Activity percentages that are identical for the same fraction among the 3 species (columns) have the same superscript letter for significant values $p < 0.001$ according to Tukey's test.

Colorimetric tests	Species	Crude extract	F1	F2	F3	F4
		% activity	% activity			
DPPH	Pedunculate	74 ^{*a}	74 ^{*a}	79 ^a	75 ^{*a}	66 ^a
	Sessile	70 ^{*b}	34 ^b	75 ^b	76 ^a	61 ^b
	Pubescent	72 ^{*ab}	62 ^c	78 ^a	76 ^a	43 ^c
ABTS	Pedunculate	96 ^{*a}	94 ^{*a}	96 ^{*a}	96 ^{*a}	86 ^a
	Sessile	96 ^{*a}	59 ^b	96 ^{*a}	96 ^{*a}	94 ^{*b}
	Pubescent	96 ^{*a}	72 ^c	96 ^{*a}	96 ^{*a}	53 ^c
CUPRAC	Pedunculate	53 ^{*a}	28 ^a	70 ^a	60 ^a	24 ^a
	Sessile	40 ^{*b}	13 ^b	72 ^a	57 ^b	25 ^a
	Pubescent	42 ^{*b}	14 ^b	65 ^b	59 ^{ab}	10 ^b
FRAP	Pedunculate	90 ^{*a}	58 ^a	106 ^a	93 ^a	49 ^a
	Sessile	80 ^{*b}	27 ^b	103 ^b	58 ^b	48 ^a
	Pubescent	88 ^{*a}	35 ^c	104 ^{ab}	100 ^c	24 ^b
Iron chelation	Pedunculate	97 ^{*a}	97 ^{*a}	108 ^a	105 ^a	98 ^{*a}
	Sessile	98 ^{*a}	86 ^b	104 ^b	100 ^{*b}	92 ^b
	Pubescent	103 ^{*b}	93 ^c	106 ^{ab}	101 ^{*b}	86 ^c

Table S2: Inhibition percentage of the 3 enzymatic assays per species for the 4 fractions and the total extract tested at 2 concentrations. Inhibition percentages of fractions that are identical to those of the crude extract (rows) are noted * for significant values $p < 0.001$ according to Dunnett's test. Inhibition percentages that are identical for the same fraction among the 3 species (columns) have the same superscript letter for significant values $p < 0.001$ according to Tukey's test.

Enzymatic tests	Concentrations tested	Species	Crude extract	F1	F2	F3	F4
			% Inhibition	% Inhibition			
Xanthine oxidase	8.4 $\mu\text{g/mL}$	Pedunculate	98 ^{*a}	100 ^{*a}	97 ^{*a}	98 ^{*a}	97 ^{*a}
		Sessile	99 ^{*a}	98 ^{*ab}	98 ^{*a}	96 ^a	98 ^{*a}
		Pubescent	99 ^{*a}	96 ^{cb}	99 ^{*a}	98 ^{*a}	93 ^b
	4 $\mu\text{g/mL}$	Pedunculate	63 ^{*a}	47 ^a	60 ^a	57 ^a	53 ^a
		Sessile	54 ^{*b}	43 ^b	57 ^b	59 ^a	52 ^{*a}
		Pubescent	55 ^{*b}	43 ^b	55 ^{*b}	53 ^{*b}	47 ^b
Elastase	250 $\mu\text{g/mL}$	Pedunculate	52 ^{*a}	14 ^a	26 ^a	35 ^a	30 ^a
		Sessile	20 ^{*b}	0 ^b	18 ^{*b}	21 ^{*b}	8 ^b
		Pubescent	56 ^{*c}	8 ^c	28 ^a	25 ^c	30 ^a
	125 $\mu\text{g/mL}$	Pedunculate	4 ^{*a}	0 ^a	9 ^a	16 ^a	14 ^a
		Sessile	2 ^{*a}	0 ^{*a}	7 ^b	12 ^b	0 ^{*b}
		Pubescent	15 ^{*b}	6 ^b	16 ^{*c}	8 ^c	14 ^{*a}
Collagenase	0.4 $\mu\text{g/mL}$	Pedunculate	79 ^{*a}	70 ^a	88 ^a	79 ^{*a}	65 ^a
		Sessile	37 ^{*b}	56 ^b	94 ^b	86 ^b	68 ^b
		Pubescent	74 ^{*c}	62 ^c	81 ^c	90 ^c	83 ^c
	0.04 $\mu\text{g/mL}$	Pedunculate	49 ^{*a}	21 ^a	64 ^a	59 ^a	55 ^a
		Sessile	21 ^{*b}	40 ^b	64 ^a	60 ^a	27 ^b
		Pubescent	56 ^{*c}	50 ^c	58 ^{*b}	69 ^c	78 ^c

Table S3: Description and proposition of annotation of the majority molecules in the most active fractions 2 and 3.

Fraction number	Cluster number	R _T (min)	Measured <i>m/z</i> [M-H] ⁻ or [M-2H] ²⁻	Formula [M]	Error (ppm)	MS/MS fragments [M-H] ⁻	Proposed annotation
Fraction 2	Single node	2.41	990.0807 ²⁻	C ₈₇ H ₅₈ O ₅₅	-2.4	1065.1068 C ₄₆ H ₃₃ O ₃₀ 915.0544 C ₄₁ H ₂₃ O ₂₅	Roburin B or C [29,34]
	Cluster 1	2.95	924.0613 ²⁻	C ₈₂ H ₅₀ O ₅₁	-1.8	631.0587 C ₂₇ H ₁₉ O ₁₈ 300.9993 C ₁₄ H ₅ O ₈	Roburin A or D [29,34]
	Single node	3.01	1065.1095 ¹⁻	C ₄₆ H ₃₄ O ₃₀	-2.1	1021.1164 C ₄₅ H ₃₃ O ₂₈ 975.0763 C ₄₃ H ₂₇ O ₂₇	Grandinin or roburin E [29,34]
	Single node	3.32	1100.0728 ¹⁻	C ₄₈ H ₃₀ O ₃₁	-1.1	1057.0800 C ₄₇ H ₂₉ O ₂₉ 933.0635 C ₄₁ H ₂₅ O ₂₆ 631.0573 C ₂₇ H ₁₉ O ₁₈	Vescavalonic acid [35]
	Cluster 1	3.91	933.0645 ¹⁻	C ₄₁ H ₂₆ O ₂₆	-0.8	631.0580 C ₂₇ H ₁₉ O ₁₈ 300.9991 C ₁₄ H ₅ O ₈	Castalagin or vescalagin [29]
Fractions 2 and 3	Cluster 1	4.45	783.0693 ¹⁻	C ₃₄ H ₂₄ O ₂₂	0.2	481.0633 C ₂₀ H ₁₇ O ₁₄ 300.9986 C ₁₄ H ₅ O ₈ 275.0186 C ₁₃ H ₇ O ₇	Pedunculagin [36]
Fraction 3	Cluster 7	5.10	497.1304 ¹⁻	C ₂₂ H ₂₆ O ₁₃	-0.6	313.0568 C ₁₃ H ₁₃ O ₉ 169.0140 C ₇ H ₅ O ₅ 125.0244 C ₆ H ₅ O ₃	3,4,5-trimethoxyphenyl-(6'-O-galloyl)-O-β-glucopyranoside [30]
	Cluster 9	6.85	581.2256 ¹⁻	C ₂₈ H ₃₈ O ₁₃	-0.3	419.1722 C ₂₂ H ₂₇ O ₈	Lyoniresinol glucoside [37]
	Cluster 9	7.38	551.2159 ¹⁻	C ₂₇ H ₃₆ O ₁₂	-0.3	419.1711 C ₂₂ H ₂₇ O ₈	Lyoniside [37]
	Cluster 10	7.65	839.3509 ¹⁻	C ₄₄ H ₅₆ O ₁₆	-2.0	419.1719 C ₂₂ H ₂₇ O ₈	Lyoniresinol [31]
	Cluster 8	7.79	575.2136 ¹⁻	C ₂₉ H ₃₆ O ₁₂	-0.4	331.1117 C ₁₈ H ₁₉ O ₆ 165.0557 C ₉ H ₉ O ₃	Not identified