

1 **Supplementary data**

2 **Table S1.** Variability in total phenol content (TPC) and total flavonoid content (TFC) in leaves of
 3 *V. negundo* accessions

Accessions number	Total phenol content (TPC) (mg GAE /100 g) DW	Total flavonoid content (TFC) (mg QE/100 g) DW
VN 01	8.67 ± 0.13	65.15 ± 0.72
VN 02	18.97 ± 0.22	90.05 ± 0.41
VN 03	9.69 ± 0.14	51.33 ± 1.34
VN 04	4.90 ± 0.21	53.95 ± 0.54
VN 05	13.24 ± 0.35	63.96 ± 0.21
VN 06	15.93 ± 0.17	45.65 ± 0.42
VN 07	12.92 ± 0.40	58.00 ± 0.43
VN 08	14.05 ± 0.13	66.46 ± 0.41
VN 09	16.58 ± 0.16	24.99 ± 0.83
VN 10	16.16 ± 0.11	36.43 ± 0.41
VN 11	16.74 ± 0.06	37.62 ± 1.04
VN 12	17.83 ± 0.60	51.21 ± 2.52
VN 13	20.49 ± 0.07	101.85 ± 0.54
VN 14	12.33 ± 0.11	69.94 ± 1.39
VN 15	11.74 ± 0.21	73.33 ± 1.67
VN 16	9.32 ± 0.13	47.87 ± 0.95
VN 17	16.05 ± 0.08	77.88 ± 11.22
VN 18	10.37 ± 0.19	82.79 ± 1.38
VN 19	16.74 ± 0.06	76.83 ± 5.38
VN 20	22.19 ± 0.04	102.80 ± 1.47
VN 21	17.75 ± 1.54	61.22 ± 5.12
VN 22	12.84 ± 0.06	32.26 ± 2.58
VN 23	13.12 ± 0.42	24.16 ± 3.55
VN 24	9.05 ± 0.19	27.01 ± 3.64
VN 25	14.54 ± 1.43	23.20 ± 3.25
VN 26	16.02 ± 0.19	33.33 ± 0.63
VN 27	21.46 ± 0.09	24.16 ± 1.49
VN 28	16.20 ± 0.16	24.75 ± 0.63
VN 29	16.92 ± 0.05	90.77 ± 0.41
VN 30	16.05 ± 0.44	26.54 ± 0.31
VN 31	11.59 ± 0.21	35.72 ± 0.83
VN 32	17.13 ± 0.08	48.70 ± 3.72
VN 33	5.69 ± 0.07	58.96 ± 1.15
VN 34	14.59 ± 0.36	23.92 ± 1.35
VN 35	15.63 ± 0.15	34.53 ± 0.63
VN 36	14.77 ± 0.10	25.11 ± 0.93
VN 37	16.38 ± 0.09	30.13 ± 0.68
VN 38	11.39 ± 0.21	20.46 ± 2.12
VN 39	13.83 ± 0.13	27.02 ± 0.78
VN 40	5.13 ± 0.16	28.81 ± 0.63
VN 41	4.89 ± 0.06	20.94 ± 1.67
VN 42	4.31 ± 0.17	23.20 ± 0.74
VN 43	9.46 ± 0.11	18.56 ± 0.41
VN 44	16.95 ± 0.52	20.94 ± 1.17
VN 45	4.75 ± 0.12	21.30 ± 1.17
VN 46	15.23 ± 0.12	22.73 ± 0.66
VN 47	19.39 ± 0.16	91.48 ± 2.30
VN 48	17.37 ± 0.05	21.66 ± 0.63
VN 49	18.45 ± 0.11	85.41 ± 0.20
VN 50	11.89 ± 1.46	24.52 ± 2.03

Mean	13.75	46.59
SE (m) \pm	0.41	2.41
C.D. at 5 %	1.17	6.77
C.V. %	5.25	8.95

4

5

6 **Table S2.** Variability in antioxidant activity (%) and essential oil content (%) in leaves of *V.*

7

negundo accessions.

Accessions number	Antioxidant activity (%)	Essential oil content (%)
VN 01	80.69	0.107
VN 02	81.33	0.180
VN 03	77.67	0.127
VN 04	80.00	0.123
VN 05	81.00	0.137
VN 06	79.05	0.123
VN 07	74.19	0.137
VN 08	75.78	0.137
VN 09	75.39	0.123
VN 10	75.67	0.140
VN 11	76.46	0.137
VN 12	78.56	0.150
VN 13	83.32	0.183
VN 14	79.00	0.140
VN 15	75.80	0.120
VN 16	74.75	0.133
VN 17	77.22	0.100
VN 18	72.47	0.107
VN 19	73.72	0.127
VN 20	85.55	0.193
VN 21	75.27	0.157
VN 22	68.70	0.140
VN 23	71.86	0.153

VN 24	73.72	0.140
VN 25	72.30	0.123
VN 26	64.14	0.110
VN 27	71.04	0.137
VN 28	64.80	0.153
VN 29	61.54	0.127
VN 30	73.27	0.080
VN 31	63.10	0.080
VN 32	75.79	0.137
VN 33	74.24	0.107
VN 34	77.35	0.123
VN 35	70.67	0.110
VN 36	78.84	0.127
VN 37	75.02	0.117
VN 38	73.57	0.087
VN 39	71.33	0.120
VN 40	75.42	0.140
VN 41	75.73	0.083
VN 42	72.67	0.073
VN 43	61.24	0.100
VN 44	75.00	0.143
VN 45	65.69	0.063
VN 46	62.58	0.077
VN 47	82.38	0.187
VN 48	73.29	0.163
VN 49	74.68	0.180
VN 50	61.69	0.103
Mean	73.89	0.127
SE (m) ±	1.62	0.006
C.D. at 5 %	4.56	0.018
C.V. %	3.80	8.631