Supplementary Materials: Phytochemical Characterization and In Vitro Antioxidant Properties of Four *Brassica* Wild Species from Italy

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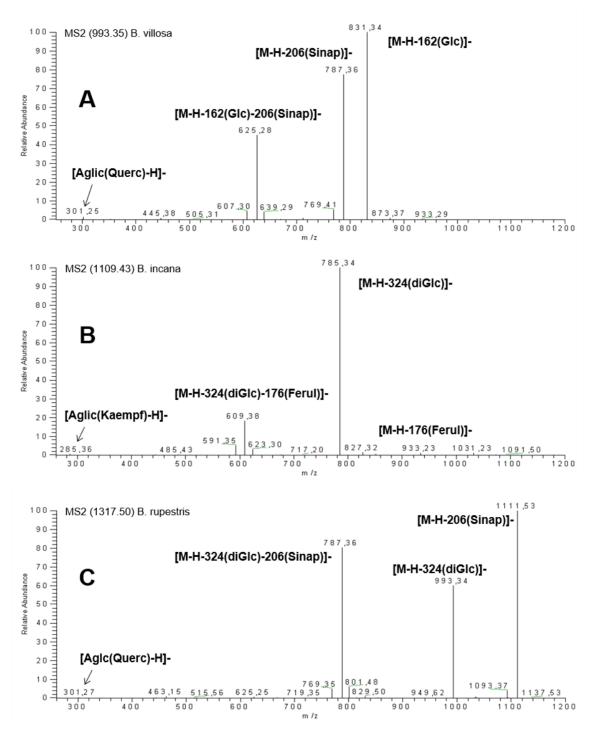


Figure S1. Negative ion electrospray MS² mass spectra of hydroxycynnamic acid esters of flavonol glycosides: **A**) quercetin 3-*O*-sinapoyldiglucoside-7-*O*-glucoside (**6**); **B**) kaempferol 3-*O*-feruloyldiglucoside-7-*O*-diglucoside (**16**); **C**) quercetin 3-*O*-sinapoyltriglucoside-7-*O*-diglucoside (**8**).

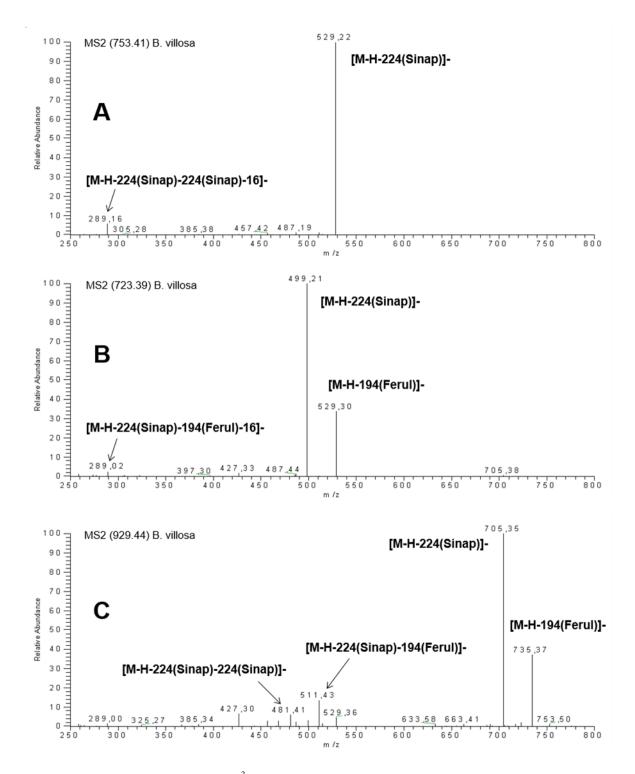


Figure S2. Negative ion electrospray MS² mass spectra of hydroxycinnamoyl gentiobiosides: **A**) 1,2-disinapoyl gentiobioside (**24**); **B**) 1-sinapoyl-2-feruloyl gentiobioside (**25**); **C**) 1,2-disinapoyl-2-feruloyl gentiobioside (**28**).

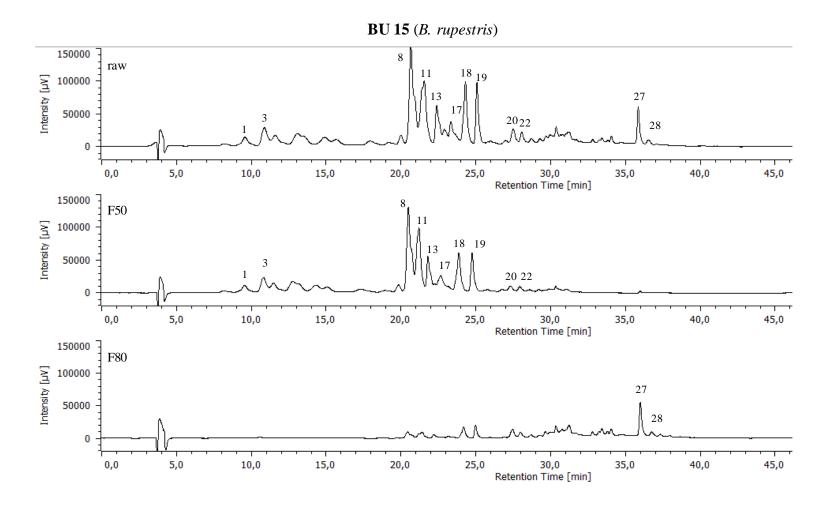
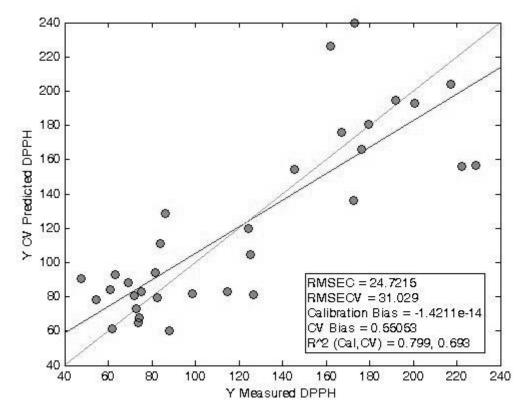


Figure S3. Example of chromatograms acquired by HPLC-DAD (330 nm) after solid-phase extraction. See paragraph 2.4 for details. (A) Raw extract; (B) F50, fraction characterized by the predominance of flavonol-caffeoyl derivatives and kaempferol-sinapoyl derivatives; (C) F80, fraction characterized by the predominance of hydroxycinnamoyl gentiobiosides. For peak numbering see Table 1.



FigureS4. Scatter plot measured vs. MLR prediction for DPPH[•] scavenging activity, with root mean square error (RMSE), bias and coefficient of determination (R²) in calibration (C and Cal) and in cross-validation (CV). See paragraph 2.8. for details.

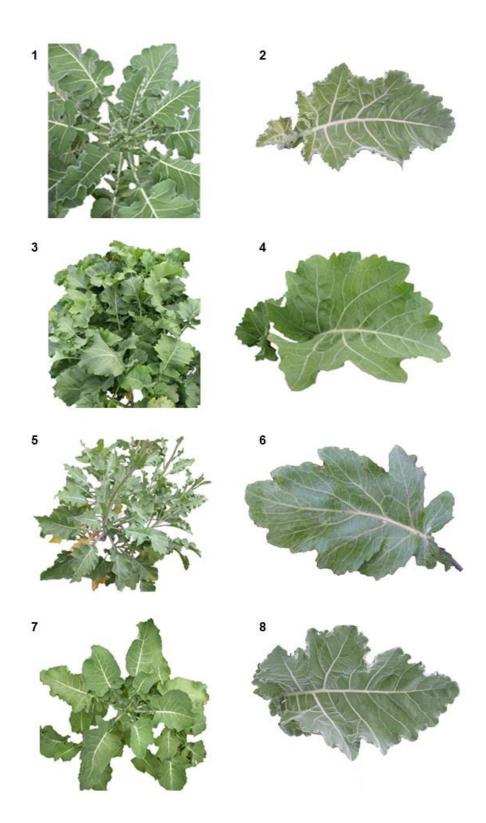


Figure S5. Characteristics of the four *Brassica* wild species evaluated in the present work. Whole plant (on the left) and particular of the leaves (on the right) of *B. incana* (1-2), *B. macrocarpa* (3-4), *B. rupestris* (5-6) and *B. villosa* (7-8).