Supplementary Data;

PC1 Loading scores

Bars (left to right): Rosmarinic acid (0.5644), Chicoric acid (0.8816), Caffeic acid (-0.05889), Cynadin (0.9124), Peonidin (0.7917), DPPH (0.6986), ABTS (0.9995), FRAP (-0.1615), cRO/NS (0.697)

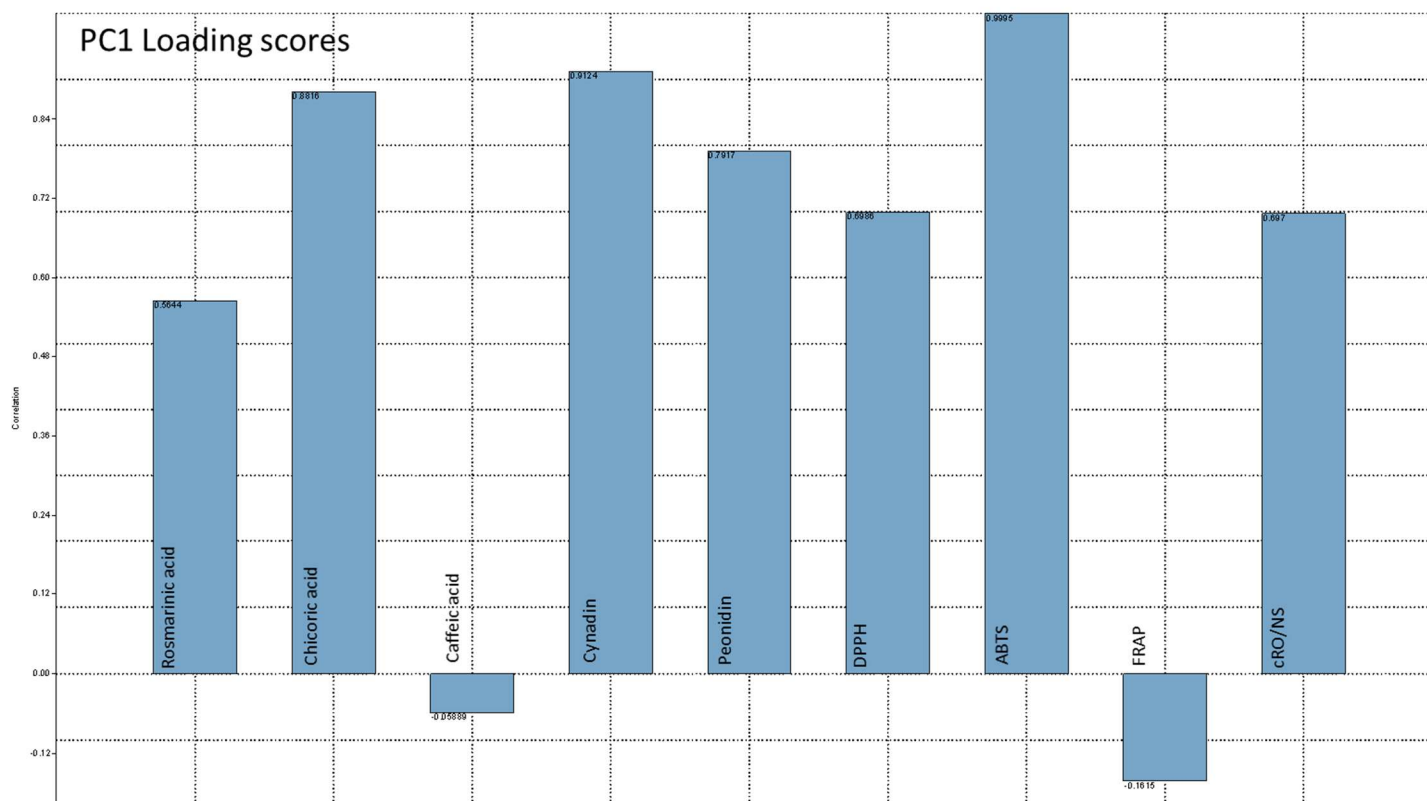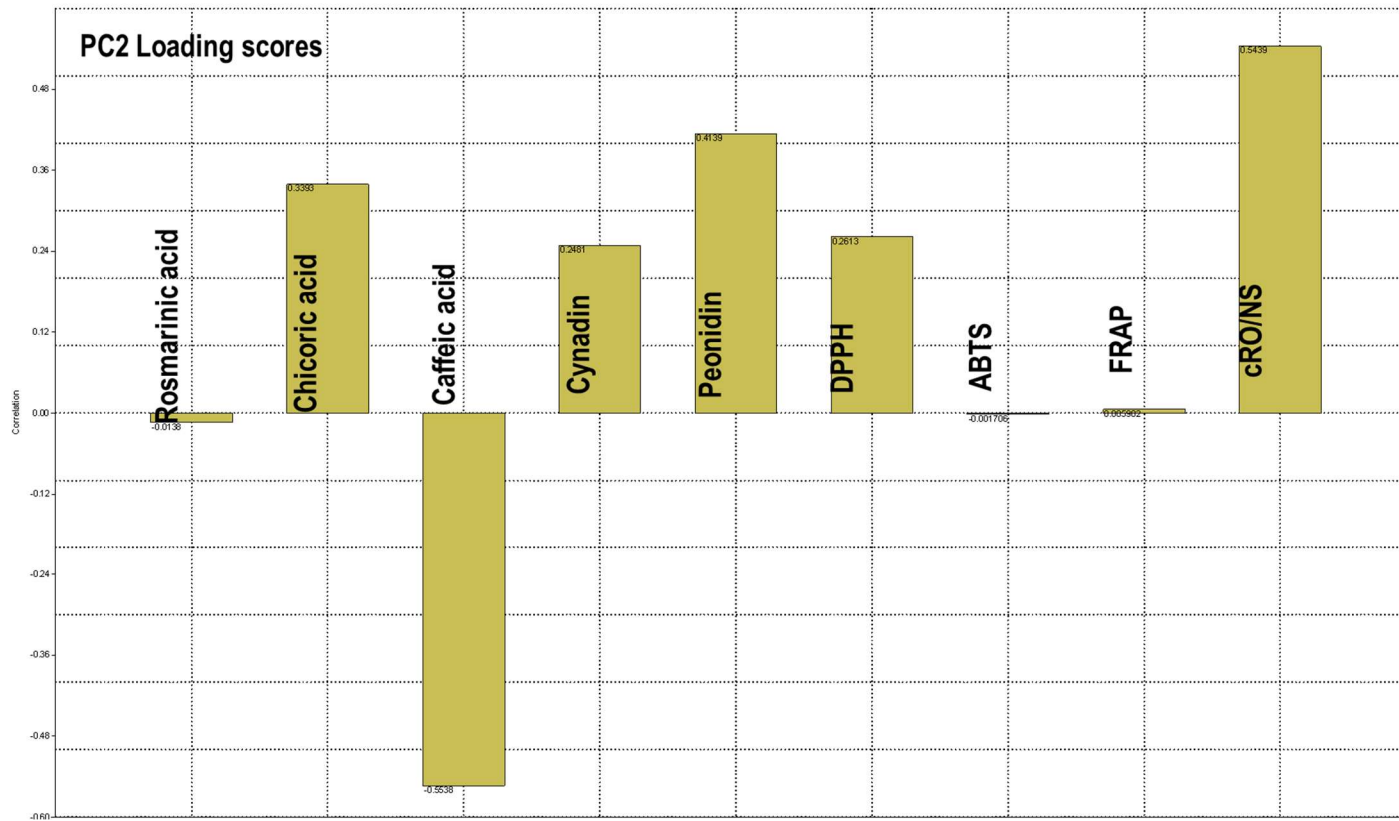**S1:** Loading scores of the first axis of the principal component analysis showing the impact of melatonin (MEL), UV-C (UV) and their combination on the phytochemical and antioxidant capacities of purple basil calli extracts

PC2 Loading scores

Bar chart showing correlation (PC2 loading scores) for:
- Rosmarinic acid: -0.0138
- Chicoric acid: 0.3393
- Caffeic acid: -0.5538
- Cynadin: 0.2481
- Peonidin: 0.4139
- DPPH: 0.2613
- ABTS: -0.001708
- FRAP: 0.005902
- cRO/NS: 0.5439

S2: Loading scores of the second axis of the principal component analysis showing the impact of melatonin (MEL), UV-C (UV) and their combination on the phytochemical and antioxidant capacities of purple basil calli extracts.