Supplementary Table S2. Quantification of individual betalains and phenolic compounds (µg/g d.w.) by HPLC and ascorbic acid content (µg/g d.w.) in peels and pulps of *O. stricta var. Dillenii* and *O. ficus-indica* (var. Fresa, Colorada and Blanco) fruits.

| Compound                          | Tissue | *O. stricta var. Dillenii* | *O. ficus-indica* | Fresa  | Colorado | Blanco |
|-----------------------------------|--------|-----------------------------|-------------------|--------|----------|--------|
| Betanin                           | peel   | 6008.1 ± 55.7^{ab}          | 954.1 ± 59.4^{ab} | 54.1 ± 2.0^{a} | 2.2 ± 0.2^{a} |
|                                   | pulp   | 4771.5 ± 111.1^{a}          | 1117.3 ± 27.8^{a} | 61.5 ± 2.0^{a} | 2.6 ± 0.4^{a} |
| Isobetanin                        | peel   | 527.8 ± 22.5^{a}           | 50.9 ± 9.4^{a}    | 7.1 ± 0.4^{a}  | n.d.^{a}   |
|                                   | pulp   | 466.9 ± 8.0^{a}             | 102.2 ± 11.9^{a}  | 5.3 ± 1.1^{a}  | tr.^{a}    |
| Indicaxanthin (Bx-proline)        | peel   | n.d.^{a}                   | 123.5 ± 6.4^{a}  | 598.1 ± 19.2^{a} | 2.8 ± 0.1^{a} |
|                                   | pulp   | n.d.^{a}                   | 400.6 ± 14.0^{a} | 1179.4 ± 14.8^{b} | 5.0 ± 0.2^{a} |
| Piscidic acid                     | peel   | 6976.6 ± 6.1^{mn}          | 39688.2 ± 998.9^{a} | 40735.2 ± 1344.2^{ab} | 42360.6 ± 3796.2^{nb} |
|                                   | pulp   | 2981.6 ± 79.8^{a}          | 3653.2 ± 19.9^{a} | 4749.0 ± 4.6^{a} | 4633.0 ± 58.3^{A} |
| IG1 (isorhamnetin glucosyl-rhamnosyl-rhamnoside) | peel   | 41.5 ± 6.1^{a}             | 217.3 ± 18.9^{a}  | 179.6 ± 2.9^{a} | 111.3 ± 1.7^{ab} |
|                                   | pulp   | 24.0 ± 1.8^{a}             | 2.2 ± 0.2^{a}    | 1.1 ± 0.0^{a}  | 2.7 ± 0.2^{a} |
| IG2 (isorhamnetin glucosyl-rhamnosyl-pentoside) | peel   | 10.1 ± 3.0^{a}             | 220.8 ± 21.0^{a} | 160.5 ± 2.7^{a} | 53.1 ± 0.8^{a} |
|                                   | pulp   | 3.3 ± 0.1^{a}              | 1.8 ± 0.2^{a}    | 0.6 ± 0.1^{a}  | 1.2 ± 0.1^{ab} |
| IG4 (isorhamnetin glucosyl-pentoside) | peel   | 36.8 ± 2.3^{ab}            | 138.4 ± 5.6^{b}  | 94.5 ± 0.5^{b} | 16.2 ± 0.5^{b} |
|                                   | pulp   | 2.1 ± 0.2^{a}              | 0.6 ± 0.2^{a}    | 0.2 ± 0.1^{a}  | 0.5 ± 0.1^{a} |
| IG5 (isorhamnetin glucosyl-rhamnoside) | peel   | 600.8 ± 7.8^{a}            | 321.1 ± 6.8^{a}  | 284.5 ± 7.2^{a} | 115.0 ± 5.3^{a} |
|                                   | pulp   | 23.8 ± 0.1^{a}             | 1.5 ± 0.2^{a}    | 0.8 ± 0.1^{a}  | 4.7 ± 0.4^{a} |
| Ascorbic acid                     | peel   | 10493.7 ± 298.9^{a}        | 2435.2 ± 28.1^{ab} | 2536.0 ± 160.9^{a} | 2357.7 ± 70.1^{ab} |
|                                   | pulp   | 9831.3 ± 326.9^{a}         | 1404.0 ± 38.0^{a} | 1347.0 ± 52.6^{a} | 1570.7 ± 65.5^{a} |

Data represent mean ± standard deviation (n=3). Different lowercase superscript letters indicate statistically significant differences (p ≤ 0.05) between varieties by Duncan’s test. Different uppercase superscript letters indicate statistically significant differences (p ≤ 0.05) between the peel and pulp of each variety by student’s t-test. n.d. not detected, tr. traces.