Anthocyanes

## Περιγραφικά

### Number of Samples

**Table 1**: Αριθμός δειγμάτων ανά έτος, περιοχή και ποικιλία

|  | | Έτος | | | |
| --- | --- | --- | --- | --- | --- |
| Περιοχή |  | 20131 | 20141 | 20151 | Συνολικά1 |
| VP |  |  |  |  |  |
|  | Maratheftiko | 2 (33%) | 2 (33%) | 2 (33%) | 6 (33%) |
|  | Mavro | 2 (33%) | 2 (33%) | 2 (33%) | 6 (33%) |
|  | Cabernet Sauvignon | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
|  | OFTHALMO | 2 (33%) | 2 (33%) | 2 (33%) | 6 (33%) |
| LAONA |  |  |  |  |  |
|  | Maratheftiko | 2 (33%) | 2 (33%) | 2 (33%) | 6 (33%) |
|  | Mavro | 2 (33%) | 2 (33%) | 2 (33%) | 6 (33%) |
|  | Cabernet Sauvignon | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
|  | OFTHALMO | 2 (33%) | 2 (33%) | 2 (33%) | 6 (33%) |
| VASA |  |  |  |  |  |
|  | Maratheftiko | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
|  | Mavro | 2 (50%) | 2 (50%) | 2 (50%) | 6 (50%) |
|  | Cabernet Sauvignon | 2 (50%) | 2 (50%) | 2 (50%) | 6 (50%) |
|  | OFTHALMO | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| OMODOS |  |  |  |  |  |
|  | Maratheftiko | 2 (33%) | 2 (33%) | 2 (33%) | 6 (33%) |
|  | Mavro | 2 (33%) | 2 (33%) | 2 (33%) | 6 (33%) |
|  | Cabernet Sauvignon | 2 (33%) | 2 (33%) | 2 (33%) | 6 (33%) |
|  | OFTHALMO | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| OMODOS |  |  |  |  |  |
|  | Maratheftiko | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
|  | Mavro | 2 (50%) | 2 (50%) | 0 (0%) | 4 (40%) |
|  | Cabernet Sauvignon | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
|  | OFTHALMO | 2 (50%) | 2 (50%) | 2 (100%) | 6 (60%) |
| 1n (%) | | | | | |

**Μέσο επίπεδο ανθοκυάνων**

**Table 2**: Μέσο επίπεδο ανθοκυάνων ανά Ποικιλία

|  | Maratheftiko, N = 181 | Mavro, N = 281 | Cabernet Sauvignon, N = 121 | OFTHALMO, N = 181 | F | p-value2 |
| --- | --- | --- | --- | --- | --- | --- |
| Cyanidol 3G | 11.9 (0.7) | 3.8 (0.5) | 1.3 (0.2) | 3.6 (0.2) | 1,644.8 | <0.001 |
| Delphinidol 3G | 6.0 (0.4) | 2.6 (0.6) | 1.6 (0.2) | 2.3 (0.2) | 368.2 | <0.001 |
| Peonidol 3G | 47.7 (2.9) | 4.9 (1.1) | 3.7 (0.1) | 50.3 (1.0) | 4,543.7 | <0.001 |
| Petunidol 3G | 13.7 (1.5) | 3.7 (0.7) | 12.7 (0.6) | 12.2 (0.1) | 649.7 | <0.001 |
| Malvidol 3G | 194.1 (3.4) | 73.5 (7.3) | 166.8 (5.2) | 153.6 (11.2) | 1,100.9 | <0.001 |
| 1Mean (SD) | | | | | | |
| 2One-way ANOVA | | | | | | |

Figure 1 Κατανομή Ανθοκυανίνων ανά Ποικιλία

A picture containing chart

Description automatically generated

#### Post Hoc Tests

Πραγματοποιήθηκαν πολλαπλές συγκρίσεις για τις διαφορές ανάμεσα στις ποικιλίες. Η στατιστική σημαντικότητα της διαφοράς μεταξύ των ζευγαριών των ποικιλιών, έχει προσαρμοστεί με τη μέθοδο Homls για τη μείωση της πιθανότητας του λάθους τύπου Ι.

* Κυανιδόλη Υπάρχει στατιστικά σημαντική διαφορά στο επίπεδο Κυανιδόλης σε όλες τις ποικιλίες
* Δελφινόλη Υπάρχει στατιστικά σημαντική διαφορά στο επίπεδο Δελφινόλης σε όλες τις ποικιλίες
* Πεονιδόλη Υπάρχει στατιστικά σημαντική διαφορά στο επίπεδο Πεονιδόλης σε όλες τις ποικιλίες
* Πετουνιδόλη Το επίπεδο Πετουνιδόλης στο Οφαλθμό δεν διαφέρει από το Cabernet Sauvignon. Σε όλα τα υπόλοιπα ζευγάρια ποικιλιών υπάρχει στατιστικά σημαντική διαφορά στο επίπεδο Δελφινόλης
* Μαλβιδόλη Υπάρχει στατιστικά σημαντική διαφορά στο επίπεδο Μαλβιδόλης σε όλες τις ποικιλίες

**Table 3**: Πολλαπλές συγκρίσεις (Post Hoc)

| Anthocyanin | Variety1 | Variety2 | p.valuea |
| --- | --- | --- | --- |
| Cyanidol 3G | Mavro | Maratheftiko | <0.001 |
| Cabernet Sauvignon | Maratheftiko | <0.001 |
| Cabernet Sauvignon | Mavro | <0.001 |
| OFTHALMO | Maratheftiko | <0.001 |
| OFTHALMO | Mavro | 0.049 |
| OFTHALMO | Cabernet Sauvignon | <0.001 |
| Delphinidol 3G | Mavro | Maratheftiko | <0.001 |
| Cabernet Sauvignon | Maratheftiko | <0.001 |
| Cabernet Sauvignon | Mavro | <0.001 |
| OFTHALMO | Maratheftiko | <0.001 |
| OFTHALMO | Mavro | 0.03 |
| OFTHALMO | Cabernet Sauvignon | <0.001 |
| Peonidol 3G | Mavro | Maratheftiko | <0.001 |
| Cabernet Sauvignon | Maratheftiko | <0.001 |
| Cabernet Sauvignon | Mavro | 0.032 |
| OFTHALMO | Maratheftiko | <0.001 |
| OFTHALMO | Mavro | <0.001 |
| OFTHALMO | Cabernet Sauvignon | <0.001 |
| Petunidol 3G | Mavro | Maratheftiko | <0.001 |
| Cabernet Sauvignon | Maratheftiko | 0.004 |
| Cabernet Sauvignon | Mavro | <0.001 |
| OFTHALMO | Maratheftiko | <0.001 |
| OFTHALMO | Mavro | <0.001 |
| OFTHALMO | Cabernet Sauvignon | 0.164 |
| Malvidol 3G | Mavro | Maratheftiko | <0.001 |
| Cabernet Sauvignon | Maratheftiko | <0.001 |
| Cabernet Sauvignon | Mavro | <0.001 |
| OFTHALMO | Maratheftiko | <0.001 |
| OFTHALMO | Mavro | <0.001 |
| OFTHALMO | Cabernet Sauvignon | <0.001 |
| aAdjusted with Holms correction | | | |

### Συγκρίσεις κατά Περιοχή

|  | | Περιοχή | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Ποικιλία |  | VP1 | LAONA1 | VASA1 | OMODOS1 | MALLIA1 |
| Maratheftiko | Cyanidol 3G | 11.6 (0.9) | 11.8 (0.5) |  | 12.4 (0.1) |  |
|  | Delphinidol 3G | 5.9 (0.3) | 6.0 (0.5) |  | 6.2 (0.3) |  |
|  | Peonidol 3G | 47.9 (2.3) | 44.8 (1.9) |  | 50.2 (1.6) |  |
|  | Petunidol 3G | 12.2 (0.1) | 15.7 (0.2) |  | 13.4 (0.1) |  |
|  | Malvidol 3G | 191.1 (3.5) | 195.0 (2.6) |  | 196.2 (1.8) |  |
| Mavro | Cyanidol 3G | 4.7 (0.2) | 3.6 (0.2) | 3.9 (0.2) | 3.6 (0.1) | 3.2 (0.0) |
|  | Delphinidol 3G | 3.5 (0.1) | 2.4 (0.2) | 2.7 (0.2) | 2.0 (0.3) | 2.1 (0.1) |
|  | Peonidol 3G | 5.8 (0.1) | 6.2 (0.2) | 4.1 (0.2) | 4.7 (0.4) | 3.0 (0.2) |
|  | Petunidol 3G | 4.9 (0.1) | 3.2 (0.6) | 3.5 (0.2) | 3.5 (0.1) | 3.4 (0.4) |
|  | Malvidol 3G | 84.4 (0.8) | 69.9 (5.5) | 73.9 (1.4) | 72.8 (2.0) | 62.9 (1.3) |
| Cabernet Sauvignon | Cyanidol 3G |  |  | 1.3 (0.2) | 1.3 (0.3) |  |
|  | Delphinidol 3G |  |  | 1.6 (0.1) | 1.7 (0.3) |  |
|  | Peonidol 3G |  |  | 3.6 (0.1) | 3.7 (0.1) |  |
|  | Petunidol 3G |  |  | 13.1 (0.5) | 12.2 (0.2) |  |
|  | Malvidol 3G |  |  | 169.9 (5.0) | 163.7 (3.3) |  |
| OFTHALMO | Cyanidol 3G | 3.7 (0.2) | 3.5 (0.1) |  |  | 3.5 (0.2) |
|  | Delphinidol 3G | 2.3 (0.3) | 2.3 (0.2) |  |  | 2.3 (0.2) |
|  | Peonidol 3G | 50.0 (1.1) | 50.4 (0.2) |  |  | 50.3 (1.4) |
|  | Petunidol 3G | 12.2 (0.1) | 12.2 (0.1) |  |  | 12.3 (0.1) |
|  | Malvidol 3G | 153.5 (5.6) | 141.1 (3.1) |  |  | 166.3 (3.2) |
| 1Mean (SD) | | | | | | |

### Συγκρίσεις κατά Πόλη

|  | | Πόλη | |
| --- | --- | --- | --- |
| Ποικιλία |  | Limassol1 | Paphos1 |
| Maratheftiko | Cyanidol 3G | 12.1 (0.5) | 11.6 (0.9) |
|  | Delphinidol 3G | 6.1 (0.4) | 5.9 (0.3) |
|  | Peonidol 3G | 47.5 (3.3) | 47.9 (2.3) |
|  | Petunidol 3G | 14.5 (1.2) | 12.2 (0.1) |
|  | Malvidol 3G | 195.6 (2.2) | 191.1 (3.5) |
| Mavro | Cyanidol 3G | 3.8 (0.4) | 3.9 (0.8) |
|  | Delphinidol 3G | 2.5 (0.5) | 2.8 (0.7) |
|  | Peonidol 3G | 5.1 (0.9) | 4.4 (1.5) |
|  | Petunidol 3G | 3.6 (0.6) | 4.2 (0.9) |
|  | Malvidol 3G | 73.3 (4.9) | 73.8 (11.8) |
| Cabernet Sauvignon | Cyanidol 3G | 1.3 (0.2) |  |
|  | Delphinidol 3G | 1.6 (0.2) |  |
|  | Peonidol 3G | 3.7 (0.1) |  |
|  | Petunidol 3G | 12.7 (0.6) |  |
|  | Malvidol 3G | 166.8 (5.2) |  |
| OFTHALMO | Cyanidol 3G | 3.5 (0.2) | 3.7 (0.2) |
|  | Delphinidol 3G | 2.3 (0.2) | 2.3 (0.3) |
|  | Peonidol 3G | 50.4 (1.0) | 50.0 (1.1) |
|  | Petunidol 3G | 12.2 (0.1) | 12.2 (0.1) |
|  | Malvidol 3G | 153.7 (13.5) | 153.5 (5.6) |
| 1Mean (SD) | | | |

### Συγκρίσεις κατά Έτος

|  | | Year | | |
| --- | --- | --- | --- | --- |
| Ποικιλία |  | 20131 | 20141 | 20151 |
| Maratheftiko | Cyanidol 3G | 11.5 (0.8) | 11.9 (0.6) | 12.4 (0.1) |
|  | Delphinidol 3G | 5.8 (0.4) | 6.2 (0.4) | 6.1 (0.3) |
|  | Peonidol 3G | 45.7 (3.0) | 48.9 (2.6) | 48.3 (2.5) |
|  | Petunidol 3G | 13.8 (1.6) | 13.7 (1.6) | 13.7 (1.6) |
|  | Malvidol 3G | 196.4 (2.7) | 192.5 (3.4) | 193.4 (3.3) |
| Mavro | Cyanidol 3G | 3.8 (0.6) | 3.8 (0.5) | 4.0 (0.5) |
|  | Delphinidol 3G | 2.6 (0.6) | 2.5 (0.7) | 2.7 (0.5) |
|  | Peonidol 3G | 4.8 (1.3) | 4.8 (1.2) | 5.1 (1.0) |
|  | Petunidol 3G | 3.9 (0.6) | 3.6 (0.7) | 3.8 (0.9) |
|  | Malvidol 3G | 72.5 (7.5) | 71.5 (8.1) | 77.2 (5.1) |
| Cabernet Sauvignon | Cyanidol 3G | 1.3 (0.1) | 1.0 (0.1) | 1.5 (0.1) |
|  | Delphinidol 3G | 1.8 (0.3) | 1.4 (0.0) | 1.7 (0.1) |
|  | Peonidol 3G | 3.7 (0.1) | 3.6 (0.1) | 3.7 (0.2) |
|  | Petunidol 3G | 12.5 (0.3) | 12.6 (0.5) | 13.0 (0.8) |
|  | Malvidol 3G | 170.6 (5.0) | 163.8 (5.6) | 166.0 (3.3) |
| OFTHALMO | Cyanidol 3G | 3.5 (0.1) | 3.6 (0.2) | 3.6 (0.2) |
|  | Delphinidol 3G | 2.3 (0.1) | 2.1 (0.1) | 2.5 (0.2) |
|  | Peonidol 3G | 49.9 (1.0) | 49.8 (0.7) | 51.0 (0.9) |
|  | Petunidol 3G | 12.3 (0.1) | 12.2 (0.1) | 12.2 (0.1) |
|  | Malvidol 3G | 150.8 (13.3) | 155.6 (9.4) | 154.5 (12.3) |
| 1Mean (SD) | | | | |