|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |
| File S4. ANOVA tables for color phenotypes |  |  |
|  |  |  |  |  |  |
| DFA |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |   |  Df |  Sum Sq |  Mean Sq |  F value |  Pr(>F) |
|  | :----------- | ----: | --------: | -------: | -------: | ------: |
|  | Family  | 29 | 410.879 | 14.168 | 45.592 | 0 |
|  | Year  | 1 | 15.767 | 15.767 | 50.736 | 0 |
|  | Age  | 1 | 0.195 | 0.195 | 0.627 | 0.429 |
|  | Individual  | 438 | 1325.561 | 3.026 | 9.739 | 0 |
|  | Family:Year  | 27 | 61.08 | 2.262 | 7.28 | 0 |
|  | Residuals  | 6609 | 2053.845 | 0.311 |  NA |  NA |
|  |  |  |  |  |  |  |
| L\* |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |   |  Df |  Sum Sq |  Mean Sq |  F value |  Pr(>F) |
|  | :----------- | ----: | ----------: | --------: | -------: | ------: |
|  | Family  | 32 | 35123.18 | 1097.599 | 49.02 | 0 |
|  | Year  | 1 | 276.807 | 276.807 | 12.363 | 0 |
|  | Age  | 1 | 18.402 | 18.402 | 0.822 | 0.365 |
|  | Individual  | 473 | 83489.608 | 176.511 | 7.883 | 0 |
|  | Family:Year  | 26 | 6153.351 | 236.667 | 10.57 | 0 |
|  | Residuals  | 8752 | 195963.459 | 22.391 |  NA |  NA |
|  |  |  |  |  |  |  |
| a\* |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |   |  Df |  Sum Sq |  Mean Sq |  F value |  Pr(>F) |
|  | :----------- | ----: | ---------: | -------: | -------: | ------: |
|  | Family  | 32 | 5586.956 | 174.592 | 100.466 | 0 |
|  | Year  | 1 | 837.888 | 837.888 | 482.145 | 0 |
|  | Age  | 1 | 6.881 | 6.881 | 3.96 | 0.047 |
|  | Individual  | 473 | 10104.182 | 21.362 | 12.292 | 0 |
|  | Family:Year  | 26 | 1265.738 | 48.682 | 28.013 | 0 |
|  | Residuals  | 8752 | 15209.516 | 1.738 |  NA |  NA |
|  |  |  |  |  |  |  |
| b\* |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |   |  Df |  Sum Sq |  Mean Sq |  F value |  Pr(>F) |
|  | :----------- | ----: | ---------: | --------: | -------: | ------: |
|  | Family  | 32 | 9881.603 | 308.8 | 48.163 | 0 |
|  | Year  | 1 | 2637.207 | 2637.207 | 411.319 | 0 |
|  | Age  | 1 | 65.408 | 65.408 | 10.201 | 0.001 |
|  | Individual  | 473 | 20033.798 | 42.355 | 6.606 | 0 |
|  | Family:Year  | 26 | 2470.712 | 95.027 | 14.821 | 0 |
|  | Residuals  | 8752 | 56114.198 | 6.412 |  NA |  NA |
|  |  |  |  |  |  |  |