|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Table S7** Analyses of variance on olfactory behavioral responses of selected lines to additional odorants. | | | | | | |
| **Odorant Tested** | **Selected Odor** | **Term** | **df** | **S.S.** | ***F*** | ***P*** |
| Cyclohexanone | BUT | Selection | 1 | 0.6455 | 10.457 | **0.0016** |
|  |  | Line (Selection) | 4 | 0.2359 | 0.9556 | 0.4348 |
| 2,3-Butanedione | CYC | Selection | 1 | 0.1134 | 1.754 | 0.1881 |
|  |  | Line (Selection) | 4 | 0.1439 | 0.5566 | 0.6946 |
| Ethyl Lactate | BUT | Selection | 2 | 3.2202 | 18.195 | **0.0001** |
|  |  | Line (Selection) | 6 | 0.4013 | 0.7558 | 0.6056 |
|  | CYC | Selection | 2 | 2.7625 | 20.752 | **0.0001** |
|  |  | Line (Selection) | 6 | 0.2420 | 0.6060 | 0.7253 |
| Pentyl Acetate | BUT | Selection | 2 | 0.8419 | 6.296 | **0.0023** |
|  |  | Line (Selection) | 6 | 0.4167 | 1.0390 | 1.0390 |
|  | CYC | Selection | 2 | 0.6178 | 4.236 | **0.0160** |
|  |  | Line (Selection) | 6 | 0.4026 | 0.9201 | 0.4819 |
| 2-Pentanone | BUT | Selection | 2 | 6.0852 | 52.533 | **0.0001** |
|  |  | Line (Selection) | 6 | 0.3947 | 1.1359 | 0.3435 |
|  | CYC | Selection | 2 | 0.5334 | 3.531 | **0.0314** |
|  |  | Line (Selection) | 6 | 0.4456 | 0.9834 | 0.4381 |
| 2-Heptanone | BUT | Selection | 2 | 1.2563 | 7.865 | **0.0005** |
|  |  | Line (Selection) | 6 | 1.0534 | 2.1983 | 0.0554 |
|  | CYC | Selection | 2 | 0.4565 | 3.673 | **0.0275** |
|  |  | Line (Selection) | 6 | 0.8949 | 2.4005 | **0.0298** |
| Hexyl Acetate | BUT | Selection | 2 | 2.5520 | 15.196 | **0.0010** |
|  |  | Line (Selection) | 6 | 0.2936 | 0.5827 | 0.7438 |
|  | CYC | Selection | 2 | 1.0049 | 5.820 | **0.0036** |
|  |  | Line (Selection) | 6 | 0.4361 | 0.8420 | 0.5391 |
| Ethyl Butyrate | BUT | Selection | 2 | 0.2776 | 2.200 | 0.1140 |
|  |  | Line (Selection) | 6 | 0.4549 | 1.2017 | 0.3077 |
|  | CYC | Selection | 2 | 0.0151 | 0.145 | 0.8652 |
|  |  | Line (Selection) | 6 | 0.4734 | 1.5130 | 0.1765 |
| 2-Butanone | BUT | Selection | 2 | 2.8858 | 17.150 | **0.0001** |
|  |  | Line (Selection) | 6 | 0.3970 | 0.7864 | 0.5817 |
|  | CYC | Selection | 2 | 1.6300 | 9.498 | **0.0001** |
|  |  | Line (Selection) | 6 | 0.2133 | 0.4144 | 0.8688 |
| 6-Methyl-5-hepten-2-one | BUT | Selection | 2 | 3.0568 | 23.920 | **0.0001** |
|  |  | Line (Selection) | 6 | 0.9387 | 2.4485 | **0.0269** |
|  | CYC | Selection | 2 | 1.0389 | 8.504 | **0.0003** |
|  |  | Line (Selection) | 6 | 0.4509 | 1.2303 | 0.2931 |
| Ethyl Hexanoate | BUT | Selection | 2 | 1.3374 | 7.730 | **0.0006** |
|  |  | Line (Selection) | 6 | 0.4004 | 0.7715 | 0.5933 |
|  | CYC | Selection | 2 | 0.2886 | 1.934 | 0.1477 |
|  |  | Line (Selection) | 6 | 0.2165 | 0.4836 | 0.8200 |
| Propyl Acetate | BUT | Selection | 2 | 0.4626 | 3.588 | **0.0297** |
|  |  | Line (Selection) | 6 | 0.4667 | 1.2075 | 0.3047 |
|  | CYC | Selection | 2 | 0.6473 | 6.052 | **0.0029** |
|  |  | Line (Selection) | 6 | 0.6066 | 1.8903 | 0.0850 |
| Acetone | BUT | Selection | 2 | 2.4970 | 17.275 | **0.0001** |
|  |  | Line (Selection) | 6 | 0.3695 | 0.8521 | 0.5316 |
|  | CYC | Selection | 2 | 1.5490 | 15.547 | **0.0001** |
|  |  | Line (Selection) | 6 | 0.3495 | 1.1692 | 0.3252 |
| Acetophenone | BUT | Selection | 2 | 0.5510 | 6.742 | **0.0015** |
|  |  | Line (Selection) | 6 | 0.6702 | 2.7332 | **0.0146** |
|  | CYC | Selection | 2 | 0.3265 | 2.580 | 0.0788 |
|  |  | Line (Selection) | 6 | 0.6680 | 1.7595 | 0.1102 |
| Degrees of freedom (df), Sum of Squares (S.S.), *F* ratio (*F*), and *P*-value (*P*). | | | | | | |
| Significant terms in bold. | | | | | | |