**Supplementary material**

Supplementary Table S1- Two sample T-test assuming unequal variance between wild and cultivated curry leaves for essential oil yield.

|  |  |  |
| --- | --- | --- |
|  | Cultivated | Wild |
| Mean | 0.314375 | 0.240833 |
| Variance | 0.018447 | 0.000665 |
| Observations | 16 | 4 |
| Hypothesized Mean Difference | 0 |  |
| Df | 18 |  |
| t Stat | 2.024736 |  |
| P(T<=t) one-tail | 0.028995 |  |
| t Critical one-tail | 1.734064 |  |
| P(T<=t) two-tail | 0.05799 |  |
| t Critical two-tail | 2.100922 |  |

Supplementary Table S3. Significance Analysis of Metabolomics (SAM) between wild and cultivated curry leaves for essential oil components.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Compound | d.value | stdev | rawp | q.value |
| Bornyl acetate | 6.4281 | 0.31101 | 0 | 0.0 |
| Camphene | 4.7981 | 0.34095 | 0.000143 | 0.002211 |
| Α-pinene | 4.7429 | 0.2355 | 0.000143 | 0.002211 |
| Trans-α-bergamotene | -3.3641 | 0.17961 | 0.001286 | 0.014924 |
| 1-Terpineol | -2.9599 | 0.26193 | 0.005571 | 0.051736 |

Supplementary Table S4- Values of loadings of the volatile compounds of the principal component (PC) analysis for the composition of essential oils of the curry leaf germplasm

|  |  |  |  |
| --- | --- | --- | --- |
| Compound | PC1 | PC2 | PC3 |
| Alpha Pinene | -0.02049 | 0.39366 | -0.06182 |
| Sabinene | 0.088019 | 0.19682 | 0.069498 |
| Camphene | -0.28102 | 0.27935 | -0.11596 |
| B-Phellandrene | 0.15173 | 0.33374 | -0.09021 |
| Gamma-Terpinene | 0.34184 | 0.078474 | 0.021155 |
| Alpha-Terpinene | 0.043773 | 0.17168 | -0.27705 |
| Linalool | 0.076757 | 0.05953 | 0.06545 |
| A-Terpineol | 0.27791 | 0.070769 | -0.20289 |
| Delta-Elemene | -0.19029 | -0.01037 | 0.24343 |
| Gamma-Elemene | -0.17162 | -0.00227 | -0.16534 |
| Alpha-Cubebene | -0.01398 | -0.01439 | -0.04448 |
| Alpha-Ylangene | -0.02546 | -0.07258 | -0.02776 |
| Alpha-Copaene | 0.007411 | -0.01732 | -0.09435 |
| Beta-Elemene | 0.017899 | 0.076454 | 0.22016 |
| Trans-Caryophyllene | -0.00932 | -0.03216 | -0.02766 |
| Aromadendrene | -0.05388 | 0.015342 | 0.044084 |
| Alpha-Humulene | -0.02278 | -0.03517 | -0.00518 |
| Beta-Selinene | -0.01183 | 0.019589 | -0.13818 |
| Velencene | -0.09034 | 0.013877 | 0.079205 |
| Beta-Cadinene | -0.08281 | 0.023105 | -0.15648 |
| Germacrene-D | -0.12381 | -0.16324 | -0.17477 |
| Spathulenol | 0.073064 | 0.034819 | 0.020542 |
| Beta-Humulene | -0.15207 | -0.05111 | -0.09921 |
| Guaiol | -0.02145 | -0.03174 | 0.016424 |
| Beta Eudesmol | -0.03437 | -0.06333 | 0.13262 |
| Agarospirol | -0.07976 | 0.014439 | 0.063979 |
| A-Phellandrene | 0.35235 | -0.04768 | 0.080716 |
| (Z-)B-Ocimene | -0.04778 | 0.11671 | 0.084558 |
| 1-Terpineol | 0.29519 | -0.05335 | -0.11027 |
| Alpha-Gurjunene | -0.05297 | 0.001463 | 0.06408 |
| Trans -A-Bergamotene | -0.0325 | -0.23723 | 0.1569 |
| Alpha-Selinene | 0.34701 | 0.094544 | 0.38183 |
| Alpha muurolene | 0.001341 | -0.01997 | 0.054335 |
| Delta-Cadinene | -0.0124 | -0.04392 | 0.008116 |
| Gamma-Gurjunene | -0.0634 | -0.00885 | 0.025234 |
| Viridiflorol | 0.003585 | -0.039 | 0.033316 |
| Torreyol | -0.08054 | 4.84E-05 | -0.12681 |
| Alpha-Cadinol | -0.03986 | -0.00093 | -0.00426 |
| Juniper camphore | 0.009093 | -0.04703 | 0.1561 |
| Phytol | -0.01976 | -0.03122 | -0.06893 |
| Delta-3-carene | 0.035518 | -0.02398 | -0.10787 |
| d Limonene | -0.03501 | 0.025757 | -0.03471 |
| Trans-Ocimene | -0.06058 | 0.054648 | 0.00497 |
| Alpha Terpinolene | 0.024438 | 0.091088 | -0.03128 |
| Borneol | -0.03487 | -0.00728 | -0.13917 |
| 4-Terpineol | 0.11615 | 0.084071 | -0.14969 |
| Cadinene | -0.04464 | 0.072036 | 0.12954 |
| Delta-Selinene | -0.16816 | 0.025032 | 0.27613 |
| Gamma-Cadinene | 0.030159 | -0.09492 | -0.23902 |
| Germacrene-B | -0.03168 | -0.08007 | 0.017983 |
| Alpha -Guaiene | -0.08207 | -0.03361 | 0.15504 |
| Beta-Guaiene | 0.053908 | -0.08207 | 0.12919 |
| Patchoulane | 0.018949 | 0.020473 | 0.091396 |
| Cubenol | -0.06127 | -0.07167 | 0.039813 |
| Santalol | 0.00463 | 0.017626 | 0.073813 |
| alpha Thujene | 0.14015 | 0.15629 | -0.05501 |
| Nerol | 0.023035 | 0.029761 | -0.0304 |
| Linalyl acetate | 0.067135 | -0.01324 | -0.06405 |
| Trans- alpha-Bisabolene | 0.088249 | -0.07726 | 0.022854 |
| Bornyl Acetate | -0.17113 | 0.55729 | 0.086872 |
| Cryptone | 0.20194 | -0.03987 | -0.02996 |
| Calamenene | 0.095634 | -0.06784 | -0.09609 |
| Caryo-oxide | 0.08733 | -0.03298 | -0.10807 |
| Safranal | 0.027135 | 0.004658 | -0.00239 |
| Cumic alcohol | 0.030402 | 0.009234 | -0.00482 |
| Beta Cubebene | -0.08726 | -0.14034 | -0.17133 |
| Alpha-santalol | 0.029033 | 0.002727 | -0.06234 |
| Beta pachoulene | -0.03772 | -0.07357 | -0.01848 |
| Alloaromadrene | -0.01638 | -0.0133 | -0.02419 |
| Beta-bisabolene | -0.03842 | -0.03531 | -0.01923 |

Supplementary Table S5 - Scores of the samples (genotypes) of the principal component (PC) analysis for the composition of essential oils of the curry leaf germplasm.

|  |  |  |  |
| --- | --- | --- | --- |
| Genotype | PC1 | PC2 | PC3 |
| SUWASINI | -0.47389 | -2.1046 | 1.2778 |
| LSR/18/06-a | 4.0962 | -1.2923 | -0.10237 |
| LSR/18/06-b | 3.3252 | -0.32525 | -1.5363 |
| LSR/18/8 | -3.5521 | -3.6978 | -0.3456 |
| LSR/18/9 | -4.0241 | -1.2937 | -1.4861 |
| LSR/18/18 | 2.1209 | 1.3654 | -0.5523 |
| LSR/18/75 | 3.6898 | -0.54999 | 0.30545 |
| LSR/18/93 | 2.0547 | 2.9696 | -2.3836 |
| LSR/18/162 | 2.0115 | -1.1218 | -2.2495 |
| LSR/18/175 | -3.5794 | -3.0741 | -0.27484 |
| RRP/18/4 | 0.85347 | -1.6305 | 1.4438 |
| RRP/18/17 | 4.0224 | -1.1621 | 0.64502 |
| RRP/18/20-a | 3.4053 | 0.85028 | -1.2061 |
| RRP/18/30 | -2.8018 | -0.6008 | -4.0626 |
| BRR/18/3 | -0.35527 | -0.07383 | 3.9008 |
| BRR/18/3-1 | -0.35527 | -0.07383 | 3.9008 |
| BRR/18/28 | -1.5254 | -2.5345 | 0.70295 |
| BRR/18/8 | -1.6046 | 3.7391 | 2.2375 |
| BRR/18/9 | -1.3026 | 3.8593 | 2.0778 |
| BRR/18/10 | -2.8102 | 3.8656 | -2.2803 |
| BRR/18/19 | -3.1949 | 2.8858 | -0.01236 |