|  |  |  |  |
| --- | --- | --- | --- |
| **A)** | **Na** | **Ar** | **HWE** |
|  |  |  |  |  |  |  |  |  |  |  | He | Ho | P | He | Ho | P | He | Ho | P | He | Ho | P | He | Ho | P |
|  | BEC | STE | TIN | ADR | TAM | BEC | STE | TIN | ADR | TAM | BEC | STE | TIN | ADR | TAM |
| **Locus ID** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CVRL4D | 4 | 3 | 3 | 5 | 7 | 5.0 | 5.1 | 3.9 | 3.5 | 3.7 | 0.66 | 0.50 | 0.05 | 0.64 | 0.75 | 0.44 | 0.61 | 0.62 | 0.27 | 0.69 | 0.71 | 0.28 | 0.65 | 0.56 | 0.01 |
| CVRL5D | 6 | 7 | 7 | 7 | 10 | 5.6 | 4.4 | 5.9 | 6.8 | 5.5 | 0.70 | 0.50 | 0.05 | 0.70 | 0.63 | 0.31 | 0.64 | 0.50 | 0.16 | 0.70 | 0.52 | 0.08 | 0.71 | 0.68 | 0.36 |
| CMS121 | 5 | 9 | 7 | 6 | 7 | 6.9 | 5.5 | 6.2 | 6.9 | 6.7 | 0.68 | 0.68 | 0.78 | 0.78 | 0.75 | 0.46 | 0.69 | 0.68 | 0.04 | 0.70 | 0.61 | 0.18 | 0.66 | 0.70 | 0.95 |
| CVRL6D | 3 | 3 | 3 | 3 | 3 | 3.0 | 3.0 | 2.9 | 3.4 | 2.9 | 0.35 | 0.32 | 0.38 | 0.49 | 0.38 | 0.11 | 0.29 | 0.26 | 0.38 | 0.46 | 0.52 | 0.61 | 0.32 | 0.33 | 0.22 |
| LCA66 | 5 | 4 | 6 | 4 | 6 | 4.7 | 4.0 | 4.7 | 5.9 | 4.9 | 0.69 | 0.55 | 0.13 | 0.71 | 0.75 | 0.64 | 0.76 | 0.79 | 0.79 | 0.69 | 0.71 | 0.39 | 0.74 | 0.75 | 0.27 |
| CVRL1D | 10 | 15 | 14 | 17 | 22 | 11.0 | 10.9 | 10.2 | 13.0 | 11.8 | 0.79 | 0.59 | 0.04 | 0.87 | 0.92 | 0.67 | 0.85 | 0.88 | 0.82 | 0.86 | 0.84 | 0.13 | 0.86 | 0.79 | 0.02 |
| YWLL44 | 4 | 5 | 4 | 4 | 7 | 5.3 | 4.2 | 4.6 | 5.0 | 4.8 | 0.39 | 0.45 | 1.00 | 0.50 | 0.33 | 0.01 | 0.52 | 0.53 | 0.09 | 0.49 | 0.45 | 0.38 | 0.50 | 0.48 | 0.39 |
| YWLL59 | 2 | 2 | 2 | 2 | 2 | 3.4 | 2.0 | 2.0 | 2.0 | 2.0 | 0.50 | 0.50 | 1.00 | 0.47 | 0.46 | 1.00 | 0.50 | 0.50 | 1.00 | 0.50 | 0.55 | 0.72 | 0.50 | 0.36 | 0.01 |
| CMS50 | 10 | 10 | 9 | 9 | 11 | 8.3 | 10.0 | 8.7 | 10.2 | 8.6 | 0.85 | 0.95 | 0.26 | 0.86 | 0.96 | 0.39 | 0.78 | 0.76 | 0.11 | 0.81 | 0.74 | 0.20 | 0.83 | 0.79 | 0.13 |
| CVRL8 | 2 | 2 | 2 | 2 | 2 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 0.41 | 0.36 | 0.62 | 0.34 | 0.42 | 0.54 | 0.44 | 0.41 | 0.71 | 0.32 | 0.13 | 0.00 | 0.36 | 0.40 | 0.38 |
| CMS9 | 8 | 8 | 8 | 8 | 10 | 6.9 | 7.6 | 8.1 | 7.4 | 7.9 | 0.83 | 0.74 | 0.04 | 0.74 | 0.50 | 0.01 | 0.78 | 0.59 | 0.00 | 0.86 | 0.67 | 0.00 | 0.83 | 0.67 | 0.00 |
| VOLP10 | 7 | 7 | 8 | 6 | 12 | 7.7 | 8.5 | 5.7 | 8.3 | 7.5 | 0.79 | 0.68 | 0.01 | 0.83 | 0.71 | 0.23 | 0.79 | 0.74 | 0.47 | 0.79 | 0.70 | 0.41 | 0.82 | 0.69 | 0.00 |
| CVRL7 | 8 | 8 | 9 | 11 | 13 | 8.8 | 9.5 | 6.8 | 9.5 | 8.0 | 0.80 | 0.82 | 0.36 | 0.84 | 0.83 | 0.71 | 0.82 | 0.82 | 0.81 | 0.84 | 0.77 | 0.13 | 0.77 | 0.77 | 0.01 |
| CMS25 | 4 | 4 | 4 | 4 | 5 | 3.9 | 4.5 | 3.9 | 3.5 | 3.9 | 0.65 | 0.45 | 0.07 | 0.66 | 0.58 | 0.66 | 0.70 | 0.68 | 0.90 | 0.70 | 0.81 | 0.94 | 0.62 | 0.62 | 0.99 |
| CMS15 | 7 | 6 | 9 | 8 | 9 | 6.5 | 7.1 | 6.5 | 6.7 | 7.4 | 0.75 | 0.86 | 0.58 | 0.77 | 0.88 | 0.60 | 0.78 | 0.82 | 0.54 | 0.79 | 0.71 | 0.40 | 0.80 | 0.70 | 0.55 |
| CMS18 | 3 | 4 | 3 | 3 | 3 | 2.7 | 3.3 | 3.3 | 2.9 | 3.6 | 0.49 | 0.55 | 0.35 | 0.42 | 0.42 | 0.67 | 0.26 | 0.29 | 1.00 | 0.33 | 0.35 | 0.43 | 0.40 | 0.46 | 0.24 |
| CMS32 | 3 | 4 | 3 | 4 | 7 | 5.3 | 4.2 | 4.5 | 4.7 | 4.5 | 0.63 | 0.23 | 0.00 | 0.60 | 0.79 | 0.25 | 0.64 | 0.59 | 0.88 | 0.66 | 0.58 | 0.46 | 0.69 | 0.63 | 0.00 |
| CMS13 | 6 | 7 | 8 | 7 | 8 | 7.0 | 7.0 | 8.0 | 7.4 | 6.8 | 0.74 | 0.86 | 0.91 | 0.71 | 0.71 | 0.54 | 0.74 | 0.62 | 0.33 | 0.73 | 0.61 | 0.26 | 0.78 | 0.77 | 0.18 |
| VOLP32 | 2 | 2 | 2 | 2 | 2 | 2.0 | 2.6 | 2.0 | 2.5 | 2.3 | 0.28 | 0.33 | 1.00 | 0.19 | 0.13 | 0.21 | 0.25 | 0.24 | 0.54 | 0.23 | 0.13 | 0.05 | 0.29 | 0.31 | 1.00 |
| Mean | 5.2 | 5.8 | 5.8 | 5.9 | 7.7 | 5.6 | 5.5 | 5.3 | 5.9 | 5.5 | 0.63 | 0.58 |  | 0.64 | 0.62 |  | 0.62 | 0.60 |  | 0.64 | 0.58 |  | 0.64 | 0.60 |  |
| S.D | 2.6 | 3.3 | 3.3 | 3.7 | 4.9 | 2.4 | 2.7 | 2.4 | 3.0 | 2.6 | 0.17 | 0.20 |  | 0.19 | 0.23 |  | 0.19 | 0.19 |  | 0.20 | 0.20 |  | 0.19 | 0.16 |  |

**Table S4.** Locus-by-locus genetic diversity parameters for the Algerian sample arranged into five geographical regions (A) and for the Egyptian sample arranged into six geographical regions (B).

Na, Number of alleles; Ar, allelic richness; HWE, Hardy-Weinberg equilibrium; He, expected heterozygosity. Ho, observed heterozygosity. P, probability value. BEC, Bechar; STE, Steppe; TIN, Tindouf; ADR, Adrar; TAM, Tamanrasset.

|  |  |  |  |
| --- | --- | --- | --- |
| **B)** | **Na** | **Ar** | **HWE** |
|  |  |  | He | Ho | P | He | Ho | P | He | Ho | P | He | Ho | P | He | Ho | P | He | Ho | P |
|  | ALQ | IKI | BIR | MAR | SID | NEG | ALQ | IKI | BIR | MAR | SID | NEG | ALQ | IKI | BIR | MAR | SID | NEG |
| **Locus ID** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CVRL4D | 4 | 5 | 4 | 4 | 4 | 5 | 3.9 | 3.8 | 3.0 | 4.9 | 4.3 | 3.0 | 0.68 | 0.73 | 0.83 | 0.70 | 0.63 | 0.02 | 0.70 | 0.65 | 0.15 | 0.69 | 0.56 | 0.67 | 0.66 | 0.67 | 0.55 | 0.68 | 0.73 | 0.84 |
| CVRL5D | 6 | 7 | 5 | 6 | 6 | 6 | 6.4 | 5.0 | 4.0 | 5.9 | 6.5 | 6.2 | 0.69 | 0.57 | 0.06 | 0.63 | 0.67 | 1.00 | 0.55 | 0.59 | 0.80 | 0.69 | 0.88 | 0.80 | 0.65 | 0.67 | 0.84 | 0.63 | 0.70 | 0.98 |
| CMS121 | 7 | 10 | 6 | 6 | 6 | 9 | 7.0 | 5.4 | 5.9 | 5.9 | 5.2 | 5.5 | 0.73 | 0.78 | 0.73 | 0.80 | 0.77 | 0.05 | 0.69 | 0.59 | 0.33 | 0.79 | 0.81 | 0.80 | 0.77 | 0.79 | 0.21 | 0.74 | 0.87 | 0.38 |
| CVRL6D | 3 | 4 | 3 | 2 | 4 | 4 | 3.0 | 3.5 | 3.0 | 3.0 | 3.0 | 3.6 | 0.24 | 0.26 | 1.00 | 0.32 | 0.37 | 1.00 | 0.47 | 0.35 | 0.01 | 0.23 | 0.25 | 1.00 | 0.20 | 0.21 | 1.00 | 0.40 | 0.35 | 0.09 |
| LCA66 | 6 | 5 | 4 | 5 | 5 | 6 | 4.3 | 4.7 | 4.9 | 4.9 | 4.0 | 4.6 | 0.74 | 0.78 | 0.21 | 0.72 | 0.80 | 0.63 | 0.73 | 0.88 | 0.31 | 0.72 | 0.88 | 0.93 | 0.74 | 0.92 | 0.22 | 0.75 | 0.78 | 0.69 |
| CVRL1D | 12 | 16 | 12 | 10 | 12 | 10 | 11.8 | 11.6 | 12.5 | 10.7 | 13.1 | 13.6 | 0.86 | 0.70 | 0.00 | 0.84 | 0.90 | 0.98 | 0.86 | 0.94 | 0.60 | 0.80 | 0.88 | 0.88 | 0.81 | 0.79 | 0.55 | 0.82 | 0.85 | 0.18 |
| YWLL44 | 6 | 5 | 5 | 6 | 5 | 6 | 3.9 | 4.8 | 3.9 | 3.0 | 5.8 | 4.3 | 0.65 | 0.65 | 0.58 | 0.57 | 0.47 | 0.61 | 0.76 | 0.88 | 0.05 | 0.71 | 0.81 | 0.91 | 0.65 | 0.74 | 0.48 | 0.74 | 0.78 | 0.45 |
| YWLL59 | 3 | 3 | 2 | 2 | 3 | 3 | 2.9 | 2.5 | 2.9 | 2.0 | 2.7 | 2.0 | 0.36 | 0.35 | 0.04 | 0.51 | 0.47 | 0.03 | 0.43 | 0.35 | 0.57 | 0.44 | 0.50 | 1.00 | 0.53 | 0.48 | 0.82 | 0.51 | 0.39 | 0.03 |
| CMS50 | 8 | 9 | 9 | 7 | 8 | 8 | 7.8 | 8.7 | 9.6 | 8.9 | 7.2 | 8.2 | 0.85 | 0.83 | 0.05 | 0.82 | 0.90 | 0.22 | 0.85 | 0.94 | 0.15 | 0.86 | 0.75 | 0.26 | 0.83 | 0.92 | 0.89 | 0.83 | 0.74 | 0.72 |
| CVRL8 | 2 | 2 | 2 | 2 | 2 | 2 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 0.45 | 0.39 | 0.64 | 0.31 | 0.31 | 1.00 | 0.34 | 0.41 | 1.00 | 0.39 | 0.38 | 1.00 | 0.45 | 0.50 | 1.00 | 0.43 | 0.26 | 0.13 |
| CMS9 | 5 | 5 | 6 | 5 | 7 | 6 | 5.8 | 7.4 | 6.9 | 6.9 | 7.7 | 8.5 | 0.72 | 0.61 | 0.05 | 0.66 | 0.57 | 0.44 | 0.73 | 0.53 | 0.33 | 0.73 | 0.75 | 0.54 | 0.78 | 0.75 | 0.98 | 0.70 | 0.61 | 0.74 |
| VOLP10 | 7 | 8 | 6 | 6 | 9 | 5 | 8.4 | 7.2 | 6.0 | 4.9 | 7.2 | 7.1 | 0.84 | 0.74 | 0.04 | 0.80 | 0.87 | 0.41 | 0.82 | 0.65 | 0.01 | 0.72 | 0.81 | 0.74 | 0.75 | 0.79 | 0.18 | 0.76 | 0.87 | 0.18 |
| CVRL7 | 5 | 8 | 8 | 8 | 10 | 12 | 8.1 | 8.0 | 7.6 | 8.7 | 7.9 | 7.3 | 0.68 | 0.57 | 0.06 | 0.77 | 0.67 | 0.36 | 0.82 | 0.71 | 0.03 | 0.78 | 0.81 | 0.61 | 0.77 | 0.75 | 0.16 | 0.87 | 0.78 | 0.04 |
| CMS25 | 3 | 5 | 4 | 3 | 4 | 3 | 3.6 | 3.9 | 3.0 | 2.0 | 4.0 | 3.5 | 0.52 | 0.78 | 0.02 | 0.58 | 0.57 | 0.97 | 0.54 | 0.65 | 0.17 | 0.57 | 0.69 | 0.01 | 0.57 | 0.58 | 0.66 | 0.53 | 0.43 | 0.40 |
| CMS15 | 7 | 8 | 6 | 6 | 8 | 7 | 7.8 | 6.7 | 8.0 | 5.9 | 6.7 | 6.2 | 0.80 | 0.67 | 0.13 | 0.66 | 0.67 | 0.07 | 0.74 | 0.43 | 0.00 | 0.79 | 0.94 | 0.76 | 0.81 | 0.83 | 0.38 | 0.79 | 0.83 | 0.93 |
| CMS18 | 4 | 4 | 4 | 2 | 2 | 3 | 3.6 | 2.9 | 2.9 | 3.9 | 3.6 | 3.0 | 0.31 | 0.30 | 0.52 | 0.53 | 0.50 | 0.22 | 0.61 | 0.47 | 0.02 | 0.39 | 0.50 | 0.51 | 0.34 | 0.33 | 1.00 | 0.46 | 0.52 | 0.81 |
| CMS32 | 5 | 5 | 6 | 5 | 4 | 4 | 4.3 | 3.8 | 3.0 | 3.9 | 3.6 | 3.7 | 0.68 | 0.52 | 0.07 | 0.68 | 0.70 | 0.43 | 0.59 | 0.50 | 0.12 | 0.67 | 0.44 | 0.04 | 0.58 | 0.71 | 0.06 | 0.60 | 0.43 | 0.04 |
| CMS13 | 8 | 11 | 7 | 7 | 8 | 6 | 7.4 | 7.5 | 6.8 | 5.9 | 6.3 | 6.5 | 0.78 | 0.70 | 0.59 | 0.85 | 0.80 | 0.27 | 0.78 | 0.65 | 0.30 | 0.78 | 0.88 | 0.36 | 0.76 | 0.67 | 0.44 | 0.73 | 0.83 | 0.11 |
| VOLP32 | 3 | 3 | 2 | 2 | 2 | 2 | 2.0 | 2.5 | 2.9 | 3.0 | 2.6 | 2.0 | 0.64 | 0.39 | 0.01 | 0.44 | 0.23 | 0.01 | 0.49 | 0.53 | 1.00 | 0.31 | 0.38 | 1.00 | 0.28 | 0.25 | 0.50 | 0.46 | 0.35 | 0.35 |
| Mean | 5.5 | 6.5 | 5.3 | 4.9 | 5.7 | 5.6 | 5.5 | 5.4 | 5.2 | 5.1 | 5.4 | 5.3 | 0.64 | 0.60 |  | 0.64 | 0.62 |  | 0.66 | 0.62 |  | 0.64 | 0.68 |  | 0.63 | 0.65 |  | 0.65 | 0.64 |  |
| S.D | 2.4 | 3.4 | 2.5 | 2.3 | 2.9 | 2.7 | 2.6 | 2.5 | 2.8 | 2.5 | 2.6 | 2.9 | 0.18 | 0.18 |  | 0.16 | 0.20 |  | 0.15 | 0.19 |  | 0.19 | 0.21 |  | 0.19 | 0.21 |  | 0.15 | 0.21 |  |

**Table S4**. Locus-by-locus genetic diversity parameters for the Algerian sample arranged into five geographical regions (A) and for the Egyptian sample arranged into six geographical regions (B) (Continued).

Na, Number of alleles; Ar, allelic richness; HWE, Hardy-Weinberg equilibrium; He, expected heterozygosity. Ho, observed heterozygosity. P, probability value. ALQ, Al Qalaj; IKI, Iking Maryut; BIR, Birqash; MAR, Marsa Matruh; SID, Sidi Barrani; NEG, Negeila.