**Genetic variability of dromedary camel populations based on microsatellites markers**

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**Animal journal**

**Supplementary material**

**Supplementary Table S1** *Characteristics of the microsatellite loci usedfor dromedary camels*

|  |  |  |  |
| --- | --- | --- | --- |
| Locus | Sequence (forward + reverse) | Size range (bp) | Reference |
| CVRL05 | F: CCTTGGACCTCCTTGCTCTGR: GCCACTGGTCCCTGTCATT | 155-185 | Mariasegaram*etal*. (2002) |
| CVRL07 | F:AATACCCTAGTTGAAGCTCTGTCCTR: GAGTGCCTTTATAAATATGGGTCTG | 270-300 | Mariasegaram*etal*. (2002) |
| CMS13 | F: TAGCCTGACTCTATCCATTTCTC R: ATTATTTGGAATTCAACTGTAAGG | 121-252 | Evdotchenko*etal*. (2003) |
| CMS15 | F: AAATACTTAAAGGTTCCCAGA R: TTGTAAACTAAAGCCAGAAAG | 121-144 | Evdotchenko*etal*. (2003) |
| CMS50 | F: TTTATAGTCAGAGAGAGTGCTGR: TGTAGGGTTCATTGTAACA | 170-190 | Evdotchenko et *al*. (2003) |
| CMS121 | F: CAAGAGAACTGGTGAGGATTTTCR:AGTTGATAAAAATACAGCTGGAAAG | 148-166 | Evdotchenko*etal*. (2003) |
| LCA63 | F: TTACCCAGTCCTTCGTGGG R: GGAACCTCGTGGTTATGGAA | 198-232 | Penedo*etal*. (1999) |
| LCA66 | F: GTGCAGCGTCCAAATAGTCAR: CCAGCATCGTCCAGTATTCA | 224-242 | Penedo*et al*. (1999) |
| VOLP03 | F: AGACGGTTGGGAAGGTGGTAR: CGACAGCAAGGCACAGGA | 144-176 | Obreque*etal*. (1998) |
| VOLP08 | F: CCATTCACCCCATCTCTCR: TCGCCAGTGACCTTATTTAGA | 131-153 | Obreque*etal*. (1998) |
| VOLP10 | F: CTTTCTCCTTTCCTCCCTACTR: CGTCCACTTCCTTCATTTC | 236-264 | Obreque*etal*. (1998) |
| VOLP32 | F: GTGATCGGAATGGCTTGAAAR: CAGCGAGCACCTGAAAGAA | 256-262 | Obreque*etal*. (1998) |
| VOLP67 | F: TTAGAGGGTCTATCCAGTTTCR: TGGACCTAAAAGAGTGGAG | 145-213 | Obreque*etal*. (1998) |
| YWLL08 | F: ATCAAGTTTGAGGTGCTTTCCR: CCATGGCATTGTGTTGAAGAC | 130-162 | Lang *etal*. (1996) |
| YWLL09 | F: AAGTCTAGGAACCGGAATGCR: AGTCAATCTACACTCCTTGC | 156-166 | Lang *etal*. (1996) |
| YWLL38 | F: GGCCTAAATCCTACTAGACR: CCTCTCACTCTTGTTCTCCTC | 180-190 | Lang *etal*. (1996) |

**Supplementary Table S2** *P-values and standard errors (SE) of departures from Hardy-Weinberg equilibrium of each locus in the entire camel population*

|  |  |  |
| --- | --- | --- |
| Locus | P-value | SE |
| CMS121 | 0.0011 | 0.0003 |
| CVRL05 | 0.0001 | 0.0001 |
| LCA66 | 0.6150 | 0.0086 |
| LCA63 | 0.1981 | 0.0078 |
| VOLP03 | 0.0793 | 0.0096 |
| CMS50 | 0.0000 | 0.0000 |
| VOLP08 | 0.0005 | 0.0001 |
| VOLP10 | 0.0004 | 0.0001 |
| VOLP32 | 0.0005 | 0.0001 |
| YWLL38 | 0.0105 | 0.0008 |
| VOLP67 | 0.0000 | 0.0000 |
| CMS13 | 0.0030 | 0.0008 |
| YWLL08 | 0.0383 | 0.0067 |
| CMS15 | 0.1972 | 0.0094 |
| CVRL07 | 0.0000 | 0.0000 |
| CVRL01 | 0.0000 | 0.0000 |



**Supplementary Figure S1**Results of the STRUCTURE HARVESTER analysis showing the optimum number of clusters Kfor dromedary camel populations studied

**References**

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