|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Locus** | **Mexico** (*n* = 7) | | |  | **Guatemala** (*n* = 15) | | | | **Belize** (*n* = 50) | | |  | **Honduras** (*n* = 7) | | |  | **Costa Rica** (*n* = 36) | | |  |
|  | ***NA*** | ***AR*** | ***HE*** | ***FIS*** | ***NA*** | ***AR*** | ***HE*** | ***FIS*** | ***NA*** | ***AR*** | ***HE*** | ***FIS*** | ***NA*** | ***AR*** | ***HE*** | ***FIS*** | ***NA*** | ***AR*** | ***HE*** | ***FIS*** |
| **FCA032** | 3.00 | 2.98 | 0.61 | 0.27 | 5.00 | 4.03 | 0.72 | -0.15 | 5.00 | 3.28 | 0.63 | 0.15 | 5.00 | 4.08 | 0.55 | -0.22 | 6.00 | 3.83 | 0.68 | 0.10 |
| **FCA075** | 4.00 | 3.92 | 0.72 | 0.09 | 7.00 | 5.36 | 0.82 | 0.06 | 10.0 | 5.56 | 0.86 | 0.28 | 3.00 | 2.71 | 0.50 | -0.36 | 7.00 | 4.42 | 0.74 | 0.02 |
| **FCA096** | 4.00 | 3.82 | 0.68 | 0.11 | 6.00 | 3.82 | 0.67 | -0.04 | 6.00 | 3.90 | 0.73 | -0.06 | 4.00 | 3.65 | 0.51 | 0.12 | 7.00 | 4.58 | 0.77 | 0.21 |
| **FCA100** | 3.00 | 2.43 | 0.26 | 0.50 | 4.00 | 3.21 | 0.64 | -0.19 | 5.00 | 2.92 | 0.60 | 0.14 | 2.00 | 2.00 | 0.41 | -0.33 | 5.00 | 2.84 | 0.52 | 0.06 |
| **FCA124** | 3.00 | 2.99 | 0.62 | -0.07 | 5.00 | 3.73 | 0.68 | -0.18 | 4.00 | 3.01 | 0.65 | 0.14 | 6.00 | 4.79 | 0.63 | -0.05 | 6.00 | 3.69 | 0.63 | 0.22 |
| **FCA126** | 2.00 | 1.99 | 0.34 | -0.20 | 3.00 | 2.70 | 0.48 | -0.30 | 6.00 | 4.13 | 0.71 | -0.07 | 3.00 | 2.99 | 0.62 | -0.07 | 4.00 | 3.16 | 0.64 | 0.08 |
| **FCA132** | 2.00 | 2.00 | 0.42 | -0.33 | 2.00 | 1.75 | 0.19 | -0.08 | 2.00 | 1.37 | 0.08 | -0.03 | 4.00 | 3.36 | 0.46 | 0.14 | 6.00 | 3.17 | 0.52 | -0.04 |
| **FCA208** | 4.00 | 4.00 | 0.64 | 0.17 | 6.00 | 3.78 | 0.66 | 0.11 | 7.00 | 4.47 | 0.77 | -0.07 | 6.00 | 5.62 | 0.79 | 0.04 | 11.0 | 5.14 | 0.79 | 0.10 |
| **FCA212** | 2.00 | 2.00 | 0.38 | 0.62 | 2.00 | 2.00 | 0.46 | -0.26 | 2.00 | 1.85 | 0.29 | 0.41 | 2.00 | 2.00 | 0.49 | -0.09 | 3.00 | 2.25 | 0.46 | -0.17 |
| **FCA225** | 5.00 | 5.00 | 0.68 | -0.07 | 3.00 | 2.67 | 0.56 | 0.15 | 4.00 | 3.26 | 0.59 | 0.12 | 4.00 | 3.67 | 0.63 | -0.25 | 7.00 | 4.74 | 0.79 | 0.03 |
| **FCA229** | 4.00 | 3.82 | 0.65 | 0.56 | 6.00 | 4.26 | 0.72 | -0.03 | 6.00 | 3.96 | 0.74 | 0.19 | 4.00 | 3.97 | 0.71 | 0.38 | 7.00 | 4.01 | 0.63 | -0.03 |
| **FCA275** | 3.00 | 2.71 | 0.50 | -0.07 | 3.00 | 2.91 | 0.63 | -0.11 | 3.00 | 2.91 | 0.64 | 0.18 | 4.00 | 3.82 | 0.65 | 0.56 | 3.00 | 2.83 | 0.58 | 0.03 |
| **Mean** | 3.25 | 3.14 | 0.54 | 0.13 | 4.33 | 3.35 | 0.60 | -0.08 | 5.00 | 3.38 | 0.61 | 0.12 | 3.92 | 3.55 | 0.58 | -0.01 | 6.00 | 3.72 | 0.65 | 0.05 |
| ***SD*** | 0.97 | 0.97 | 0.16 | 0.30 | 1.72 | 1.02 | 0.16 | 0.14 | 2.26 | 1.13 | 0.22 | 0.15 | 1.31 | 1.05 | 0.11 | 0.28 | 2.17 | 0.89 | 0.11 | 0.11 |

**Table S1.** **Summary statistics of genetic diversity by locus for Mesoamerican jaguars.** Estimates of genetic diversity for jaguars (*n* = 115) detected across five Mesoamerican countries (Belize, Costa Rica, Guatemala, Honduras, Mexico), including number of alleles (*NA*), rarified allelic richness (*AR*), expected heterozygosity (*HE*), and inbreeding coefficient (*FIS*). *n*, number of individual felids; *SD*, standard deviation.