**Additional File 8: Intra-population comparisons for East Timor and 10 surrounding populations based on HVS-I and HVS-II**

reading frame: nps 16080-16193 16194-16365 73-300

**Part A: Design and results of AMOVA**

| Source of variation | d.f. | Sum of squares | Variance components | Percentage of variation |
|---|---|---|---|---|
| Among populations | 10 | 783,765 | 0.25597 Va | 4,86 |
| Within populations | 3265 | 16350,495 | 5.00781 Vb | 95,14 |
| Total | 3275 | 17134,26 | 5,26378 | |

p-value (Va): < 0.001

**Part B: Mean pairwise differences**

| Population | East Timor | PNG | Vietnam | South Korea | Hainan | Philippines | Taiwan | Peninsular Malaysia | Mixed Han (China) | Thailand | Laos |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A - East Timor | 10,70 | 12,78 | 10,90 | 10,54 | 10,96 | 10,15 | 10,59 | 10,87 | 11,01 | 10,87 | 10,96 |
| 21 - PNG | 1,48 | 11,88 | 13,36 | 13,05 | 13,38 | 12,62 | 13,22 | 13,32 | 13,52 | 13,32 | 13,42 |
| 13 - Vietnam | 0,50 | 2,37 | 10,10 | 10,10 | 10,31 | 9,93 | 10,22 | 10,34 | 10,47 | 10,08 | 10,14 |
| 16 - South Korea | 0,50 | 2,42 | 0,36 | 9,37 | 10,20 | 9,45 | 10,03 | 10,03 | 9,96 | 10,02 | 10,18 |
| 18 - Hainan | 0,45 | 2,28 | 0,10 | 0,36 | 10,31 | 9,97 | 10,30 | 10,47 | 10,58 | 10,29 | 10,35 |
| 12 - Philippines | 0,26 | 2,14 | 0,34 | 0,23 | 0,27 | 9,08 | 9,59 | 9,85 | 9,98 | 9,90 | 9,99 |
| 17 - Taiwan | 0,41 | 2,46 | 0,35 | 0,53 | 0,32 | 0,23 | 9,64 | 10,35 | 10,45 | 10,19 | 10,24 |
| 8 - Peninsular Malaysia (Singapore) | 0,34 | 2,20 | 0,11 | 0,17 | 0,14 | 0,14 | 0,35 | 10,35 | 10,49 | 10,32 | 10,41 |
| 19 - Mixed Han (China) | 0,42 | 2,34 | 0,18 | 0,04 | 0,19 | 0,20 | 0,39 | 0,08 | 10,48 | 10,40 | 10,56 |
| 15 - Thailand | 0,54 | 2,40 | 0,05 | 0,35 | 0,15 | 0,38 | 0,39 | 0,16 | 0,18 | 9,96 | 10,14 |
| 14 - Laos | 0,51 | 2,39 | 0,00 | 0,41 | 0,10 | 0,36 | 0,33 | 0,14 | 0,23 | 0,06 | 10,18 |

Values above diagonal: Average number of pairwise differences between populations (PiXY)
Diagonal elements: Average number of pairwise differences within populations (PiX)
Values below diagonal: Corrected number of average pairwise differences between populations (PiXY-(PiX+PiY)/2)
Lowest and highest values are highlighted in green and red, resp.
Values concerning the East Timor sample are highlighted in grey (lows and highs are bold)

**Part C: FST comparisons**

| Population | East Timor | PNG | Vietnam | South Korea | Hainan | Philippines | Taiwan | Peninsular Malaysia | Mixed Han (China) | Thailand | Laos |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A - East Timor | * | 0,11835 | 0,04524 | 0,04841 | 0,04085 | 0,02423 | 0,03968 | 0,03128 | 0,03809 | 0,04878 | 0,04656 |
| 21 - PNG | < 0.001 | * | 0,17886 | 0,19885 | 0,17412 | 0,16866 | 0,19714 | 0,16719 | 0,17594 | 0,18216 | 0,18038 |
| 13 - Vietnam | < 0.001 | < 0.001 | * | 0,0367 | 0,00971 | 0,03366 | 0,03479 | 0,01032 | 0,01728 | 0,00474 | -0,00009 |
| 16 - South Korea | < 0.001 | < 0.001 | < 0.001 | * | 0,03598 | 0,02347 | 0,05243 | 0,01768 | 0,00412 | 0,03575 | 0,04086 |
| 18 - Hainan | < 0.001 | < 0.001 | < 0.001 | < 0.001 | * | 0,02606 | 0,03125 | 0,013 | 0,01774 | 0,01416 | 0,00928 |
| 12 - Philippines | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | * | 0,02362 | 0,01359 | 0,01975 | 0,03753 | 0,03563 |
| 17 - Taiwan | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | * | 0,03501 | 0,03773 | 0,03861 | 0,03225 |
| 8 - Peninsular Malaysia (Singapore) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | * | 0,00733 | 0,01584 | 0,01373 |
| 19 - Mixed Han (China) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | * | 0,01696 | 0,02131 |
| 15 - Thailand | < 0.001 | < 0.001 | 0,00901 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | * | 0,00612 |
| 14 - Laos | < 0.001 | < 0.001 | 0,36036 | < 0.001 | 0,00901 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | * |

Values above diagonal: population pairwise $F_{ST}$ values
Lowest and highest values are highlighted in green and red, resp.
Values below diagonal: p-values (significance level=0,05; 1023 permutations)
East Timor values are highlighted in grey, maximum and minimum vales bold
p value above 0.05 is highlighted in yellow

References for populations: see Table 2