Supplementary Material Haplogroup Frequencies for 39 Populations, grouped by Geography

| | | | CC | C | C | C | C | D I | D I |) [|) [|) D | D | F | G : | H | Ι. | J I | ζ 1 | K I | L | M I | NO N | N N | I N | l N | O | O | O | 0 (| O C | 0 | O | O | O | O | O F | • Q | R | | |
|------------|-------------------|-------|--------|---------|---------|--------|------|-------|-------|-------|---------|-----------|-------|-----|------|------|-------|--------|------|--------|-------|------|--------|--------|------|--------|-------|---------|---------|--------|--------|---------|-------|---------|--------|------|--------|-------|-------|--------|----|
| N | Population | Code | RPS4 N | 1217 M | 36 M38 | P33 | M8 | M1741 | M15 F | 247 F | 237.1 N | 1116 M12 | 5 P42 | P14 | M201 | M69 | I-P19 | 12f2 N | M9 1 | M230 N | M20 N | M5 | M214 I | LY2 P4 | 43 N | 4178 M | 128 M | 175 M12 | 22 M134 | LINE I | M119 N | 1110 P3 | 1 SR | Y4 P49 | 47z | M95 | M111 F | 27 P3 | 36 M | 1207 N | |
| Japan | | JAPAN | 0.0 | 1.9 | 1.2 0. | 0.0 | 5.4 | 0.0 | 0.0 | 0.0 | 3.9 | 16.7 12.0 | 2.3 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 1.2 | 0.0 | 0.4 | 0.0 | 0.0 6. | 6 10.5 | 3.1 | 0.0 | 0.0 | 0.0 | .4 7. | 4 22.1 | 1.9 | 0.0 | 0.0 | 0.4 | 0.0 25 | 9 |
| | 1 Ainu | AIN | 0.0 2 | 25.0 (| 0.0 0. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 50.0 | 0.0 25.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 0. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | .0 0. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4 |
| | 2 Aomori | AOM | 0.0 | 0.0 | 0.0 | 0.0 | 7.7 | 0.0 | 0.0 | 0.0 | 3.8 | 19.2 7. | 7.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.7 | 0.0 | 0.0 | 0.0 | 0.0 3. | 8 11.5 | 0.0 | 0.0 | 0.0 | 0.0 | .0 3. | 3 26.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 2 | :6 |
| | 3 Okinawa | OKI | | | 0.0 0. | | | 0.0 | 0.0 | 0.0 | 4.4 | 31.1 15.6 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | 0.0 6. | | 6.7 | 0.0 | 0.0 | 0.0 | .0 11. | 1 11.1 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 4 | |
| | 4 Shizuoka | SHI | 0.0 | 1.6 | 0.0 0. | 0.0 | 4.9 | 0.0 | 0.0 | 0.0 | 1.6 | 16.4 13.1 | 1.6 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 11. | 5 8.2 | 0.0 | 0.0 | 0.0 | 0.0 | .0 13. | 1 21.3 | 1.6 | 0.0 | 0.0 | 1.6 | 0.0 6 | |
| | 5 Tokushima | TOK | 0.0 | 1.4 | 1.4 0. | 0.0 | 10.0 | 0.0 | 0.0 | 0.0 | 5.7 | 10.0 8.0 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.7 | 0.0 | 0.0 | 1.4 (| 0.0 | 0.0 2. | 9 15.7 | 2.9 | 0.0 | 0.0 | 0.0 | .0 5. | 7 24.3 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 7 | |
| | 6 Kyushu | KYU | | | 3.8 0. | | | 0.0 | 0.0 | 0.0 | | 13.2 13.2 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8 | | | | | 0.0 7. | | | | | 0.0 | | | 3.8 | 0.0 | 0.0 | | 0.0 5 | |
| Northeast | | NEA | | 21.3 23 | | | | | 0.0 | 0.0 | 0.2 | 0.0 0.5 | | | | 0.0 | 1.4 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | | | | |).7 4. | | | | | 2.3 0 | | | 0.5 | 0.0 | 0.0 | 2.5 | 3.2 44 | |
| | 7 Korea | KRE | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 2. | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | | | 0.0 10. | 7 20.0 | 9.3 | 2.7 | 0.0 | 2.7 1 | .3 32.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 7 | |
| | 8 Northern Han | | 0.0 | 4.5 (| 0.0 0. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 0.0 | 0.0 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 6.8 | 0.0 | 0.0 | 2.3 (| 0.0 13. | 6 40.9 | 11.4 | 0.0 | 0.0 | 4.5 0 | .0 0. | 0.0 | 2.3 | 0.0 | 0.0 | 4.5 | 2.3 4 | |
| | 9 Manchu | MAN | 0.0 2 | | 0.0 0. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | | | | 5.8 13. | | | | | 5.8 0 | | | 0.0 | 0.0 | 0.0 | 0.0 | 7.7 5 | |
| | 10 Manchurian E | | | 9.8 34 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | 0.0 | | | | 0.0 | | .0 2.4 | | | 0.0 | 0.0 | | 4.9 4 | |
| | 11 Buryat | BUR | 0.0 | | 1.9 0. | | | | 0.0 | 0.0 | 0.0 | 0.0 | | | | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | 0.0 | | | | | 0.0 | .0 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.7 8 | |
| | 12 Evenk | EVK | | 13.7 54 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 5.3 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 16.8 (| 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | .0 0. | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 | 1.1 9 | |
| | 13 Even | EVN | | 2.9 6 | 1.3 0. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.9 (| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | .0 0. | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 6.5 3 | |
| | 14 Oroqen | ORO | 0.0 2 | 22.7 68 | 3.2 0. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.5 (| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.5 0 | .0 0. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 2 | |
| Southeast | | SEA | 3.1 | | 0.0 2. | | | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 0.0 | 0.0 | ٠ | 0.3 | 0.0 | 0.0 | 0.3 | 5.3 | 1.2 | 0.0 | 1.2 | 0.4 | | | | | 0.1 8. | | 19.8 | | | 3.2 0 | | | | 8.1 | 0.0 | 0.7 | 1.0 68 | |
| | 15 Taiwan (Han a | | 0.0 | | 0.0 0. | | | | 1.2 | 0.0 | 0.0 | 0.0 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | 3 23.8 | | | | 7.1 0 | .0 0. | | | 1.2 | 0.0 | 0.0 | 1.2 8 | |
| | 16 Taiwan (Abori | | 0.0 | | 0.0 0. | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | 0.0 | 0.0 | 0.0 6. | | | 70.8 | 18.8 | 0.0 | .0 0. | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 4 | |
| | 17 Southern Han | | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 15.0 | 0.0 | 0.0 | 0.0 | 0.0 2. | 5 22.5 | 7.5 | 15.0 | 0.0 | 0.0 | .0 0. | 0.0 | 10.0 | 20.0 | 0.0 | 0.0 | 0.0 4 | |
| | 18 Tujia | TUJ | 6.1 | | 0.0 0. | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 12. | | | | 0.0 | 4.1 0 | .0 0. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 4 | |
| | 19 Yizu | YIZ | | | 0.0 0. | | | 0.0 | 16.3 | 0.0 | 0.0 | 0.0 | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 30.2 | 0.0 | 0.0 | 0.0 | | 3 27.9 | | 0.0 | | 2.3 0 | | 0.0 | 7.0 | 2.3 | 0.0 | 0.0 | 0.0 4 | |
| | 20 Miao | MIA | 1.7 | 3.4 (| 0.0 0. | 0.0 | 0.0 | 0.0 | 8.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 20. | 7 10.3 | 37.9 | 6.9 | 0.0 | 0.0 | .0 0. | 0.0 | 3.4 | 6.9 | 0.0 | 0.0 | 0.0 5 | |
| | 21 Yao | YAO | | 0.0 | 0.0 0. | 0.0 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 0. | 0 5.0 | | , | 0.0 2 | 0.0 | .0 0. | 0.0 | 1.7 | 1.7 | 0.0 | 0.0 | 0.0 | |
| | 22 Zhuang | ZHU | | | 0.0 0. | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | 5.0 0. | | 0.0 | 10.0 | 0.0 | 0.0 | .0 0. | 0.0 | 45.0 | 25.0 | 0.0 | 0.0 | 0.0 2 | |
| | 23 She | SHE | | 0.0 | 0.0 0. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 56.9 | | 0.0 | 0.0 | .0 0. | | 0.0 | 35.3 | 0.0 | 0.0 | 0.0 5 | |
| | 24 Vietnam | VIE | 0.0 | 4.3 (| 0.0 | 0.0 | 0.0 | 0.0 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 10. | | 14.3 | 5.7 | 0.0 | 1.4 0 | .0 1.4 | 4 2.9 | 7.1 | 20.0 | 0.0 | 7.1 | 1.4 7 | - |
| | 25 Malay | MAL | | 0.0 | 0.0 0. | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | 6.3 | 0.0 | 0.0 | 3.1 | 3.1 | 0.0 | 0.0 | | | 0.0 12. | | 9.4 | 0.0 | 0.0 | 0.0 | .0 0. | 0.0 | 31.3 | 3.1 | 0.0 | 0.0 | 3.1 3 | |
| | | PHI | | | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | 45.8 | 2.1 | 0.0 | 0.0 | 0.0 | | | | | 0.0 22. | | | | | 0.0 | | | | 2.1 | 0.0 | 0.0 | 2.1 4 | |
| | 27 Indonesia East | | 5.5 | 0.0 | 0.0 27. | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.0 | 12.7 | 0.0 | 12.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |).0 9. | | 0.0 | 9.1 | 3.6 | 0.0 | .0 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 5 | |
| | 28 Indonesia Wes | | | | 0.0 0. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 12. | 0.8 | 16.0 | 16.0 | 4.0 | 0.0 | .0 8. | 0.8 | 12.0 | 0.0 | 0.0 | | 4.0 2 | |
| Central A | | CAS | 0.2 | | 7.9 0. | | | 2.1 | | 9.1 | 0.0 | 0.0 0.0 | | | 1.2 | 0.5 | 0.0 | 3.3 | 0.0 | 0.0 | 0.7 | 0.0 | 0.2 | | | | |).5 1. | | | | | 0.5 0 | | | 0.0 | 0.0 | 0.0 | | 1.5 41 | |
| | 29 Uygur | UYG | 1.5 | | 1.5 0. | | | | | 4.5 | 0.0 | 0.0 | | | | 0.0 | 0.0 | 10.4 | 0.0 | 0.0 | 4.5 | 0.0 | 0.0 | | | | | 0.0 1. | | | | | | .0 0.0 | | | 0.0 | 0.0 | | 6.3 | |
| | 30 Mongolia | MON | 0.0 | | | | | 0.0 | 1.3 | 1.3 | 0.0 | 0.0 | 0.0 | | | 0.7 | 0.0 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | | | | |).7 2. | | 4.0 | 0.7 | | 1.5 | .0 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 4.0 14 | |
| | 31 Altai | ALT | 0.0 | | 5.1 0. | | | 5.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 2.0 | | | 0.0 | | | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 1 | 7.3 4 | 6.9 9 | |
| | 32 Tibet | TIB | 0.0 | | 0.0 | | | | 15.2 | 31.4 | 0.0 | 0.0 | | | | 1.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | 1.0 1. | | | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | | 6.7 10 | |
| South Asia | | SAS | | | 0.0 0. | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 0.0 | | | | 26.8 | 0.0 | 10.7 | 0.0 | | 12.7 | 0.0 | 0.0 | | 0.0 | | | 0.0 0. | | 0.2 | | 0.0 | 0.0 0 | | 0.0 | 7.9 | 0.0 | 0.6 | | 5.4 49 | |
| | 33 India | IND | | 0.0 | 0.0 0. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | ,,, | 1.5 | 27.2 | 0.0 | 8.6 | 0.0 | | 12.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 0. | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | | 0.0 | 9.4 | 0.0 | 0.7 | | 7.4 40 | |
| | | SRI | | | 0.0 | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | ,,, | 0.0 | 25.3 | | 19.8 | 0.0 | | 15.4 | 0.0 | 0.0 | | | | | 0.0 | | | 0.0 | 0.0 | 0.0 | .0 0. | 0.0 | 1.1 | 0.0 | 0.0 | | 6.5 9 | - |
| Oceania | | OCE | | | 0.0 8. | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 0.0 | | | 0.0 | 0.0 | 0.5 | | 28.7 | 1.9 | 0.0 | 16.7 | 0.0 | | | | |).0 9. | | | 2.9 | | 0.0 0 | | 5 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 1.9 20 | |
| | 35 Aus.Abor.Peop | | | | 0.0 | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 | | 42.4 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | .0 0. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.1 3. | |
| | 36 Papua NG | PNG | | | 0.0 8. | 7 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 54.3 | 0.0 | | 28.3 | 0.0 | 0.0 | 0.0 | | 0.0 | 0.0 4. | 3 0.0 | 0.0 | 2.2 | 0.0 | 0.0 0 | .0 0. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 4 | |
| | 37 Melanesia | MEL | | | 0.0 18. | 9 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 0.0 | 0.0 | | | 0.0 | 0.0 | 1.9 | 24.5 | 7.5 | | 35.8 | 0.0 | 0.0 | | | 0.0 | 0.0 5. | | | 1.9 | | 0.0 0 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 5. | |
| | 38 Micronesia | MIC | | | 0.0 5. | | | | 0.0 | 0.0 | | 5.9 0.0 | | | | 0.0 | 0.0 | 0.0 | | | | 5.9 | 0.0 | | | | | 0.0 17. | | | | | 0.0 0 | | | | 0.0 | | | 0.0 | |
| | 39 Polynesia | POL | 0.0 | 0.0 | 0.0 3. | 3 60.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 0.0 | 3.3 | 0.0 | 0.0 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 18. | 3 5.0 | 1.7 | 3.3 | 0.0 | 0.0 | .0 0. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | ۰0 |