**Table S1.** The descriptions of the Asian region samples in 1000 Genomes Project (Phase 3)

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| --- | --- | --- | --- |
| Superpopulation | Abbreviation | Numbers of samples (n=993) | Description |
| East Asians(504) | CDX | 93 | Chinese Dai in Xishuangbanna, China |
| CHB | 103 | Han Chinese in Beijing, China |
| CHS | 105 | Han Chinese South |
| JPT | 104 | Japanese in Tokyo, Japan |
| KHV | 99 | Kinh in Ho Chi Minh City, Vietnam |
| South Asians(489) | BEB | 86 | Bengali in Bangladesh |
| GIH | 103 | Gujarati Indian in Houston, TX |
| ITU | 102 | Indian Telugu in the UK |
| PJL | 96 | Punjabi in Lahore, Pakistan |
| STU | 102 | Sri Lankan Tamil in the UK |