

PCA plot showing genetic variation across 1000 Genomes Project populations. The x-axis represents PC1 (14.1%) and the y-axis represents PC2 (13.3%). Populations are color-coded by continental ancestry: African (red), European (green), East Asian (blue), South Asian (orange), and Admixed American (purple). Lines connect populations with significant genetic differentiation. Labels for specific populations are provided, such as 1::NC\_072376.2:199870073-199880873(+) for the European population and 1::NC\_072381.2:139192782-139202910(+) for the African population.

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