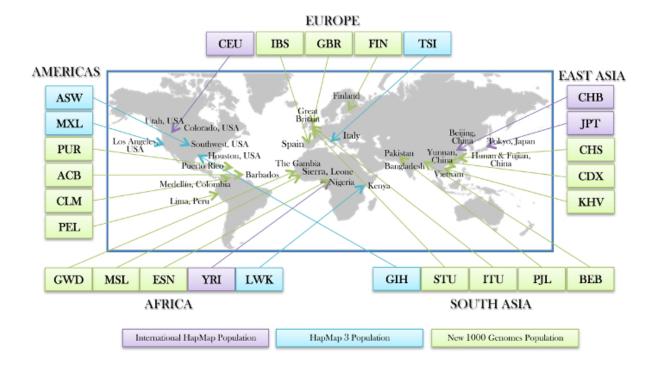
POPULATION GENOMICS GENOMES AND SOCIETY

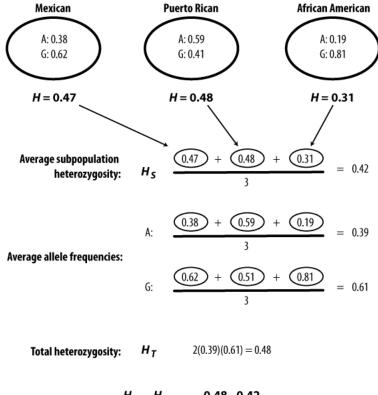
30Nov15

ANNOUNCEMENTS

POPULATION GENOMICS



ST http://johnhawks.net/explainer/laboratory/measuring-fst/

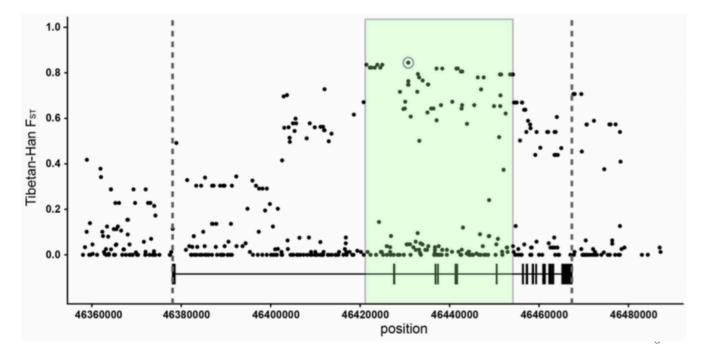


F_{ST} IN THREE POPULATIONS

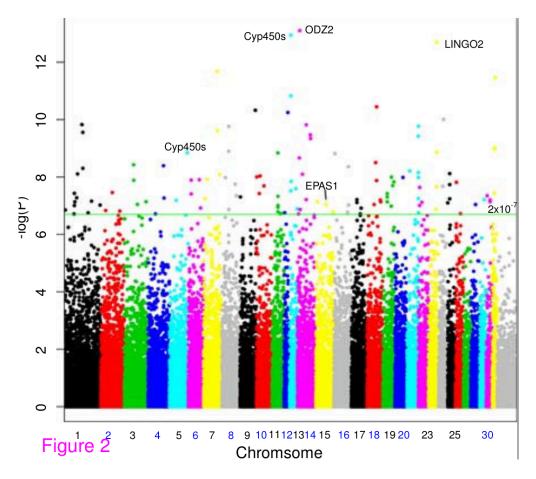
$$F_{ST} = \frac{H_T - H_S}{H_T} = \frac{0.48 - 0.42}{0.48} = 0.13$$

 \mathbf{F}_{ST}

Sequencing of 50 Human Exomes Reveals Adaptation to High Altitude

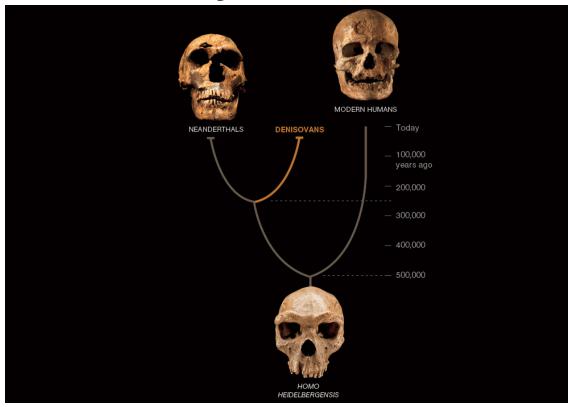


$\mathbf{F}_{\mathbf{ST}}$



Altitude adaptation in Tibetans caused by introgression of Denisovan-like DNA

7



GENOMES AND SOCIETY

Q. Before she died, my aunt told me that my brother and I had different fathers. I didn't want to believe it and carried the secret for a year. When I couldn't stand it anymore I ordered a genetic test kit and in a ruse got my brother to participate (without his knowledge).

The results came back supporting my aunt's claim: My brother and I are only half siblings. I don't know what to do

GENOMES AND SOCIETY

- 1. Did sister have a right to genotype brother?
- 2. Should she tell him?
- 3. Would it be different if she found out he was carrier of CF or some other disease?
- 4. Should we all have our genomes sequenced?

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