

Exchange Among Sex Chromosomes and Autosomes - Human, Chimp and Marmoset

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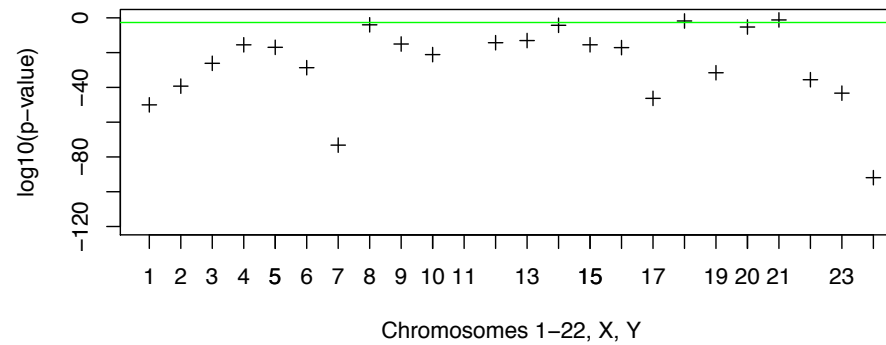
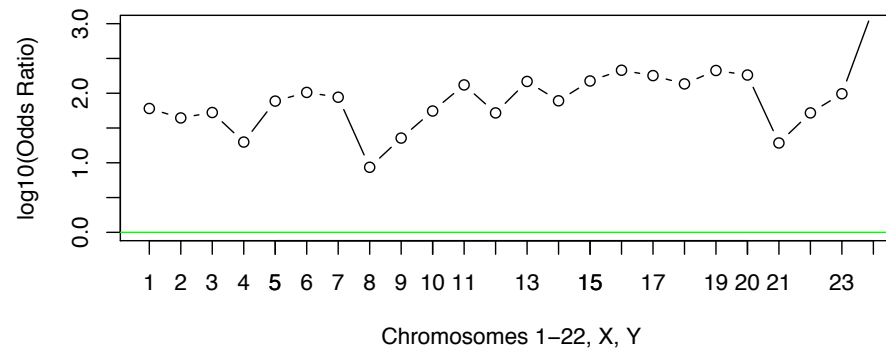
Outline

- Primates
 - Human, Chimp (Pan), Marmoset (Callithrix)
- Test co-residence randomness
 - For DUP and PSSD, separately
- Exchange between X, Y and autosomes
 - Export and import, respectively

Test Co-residence

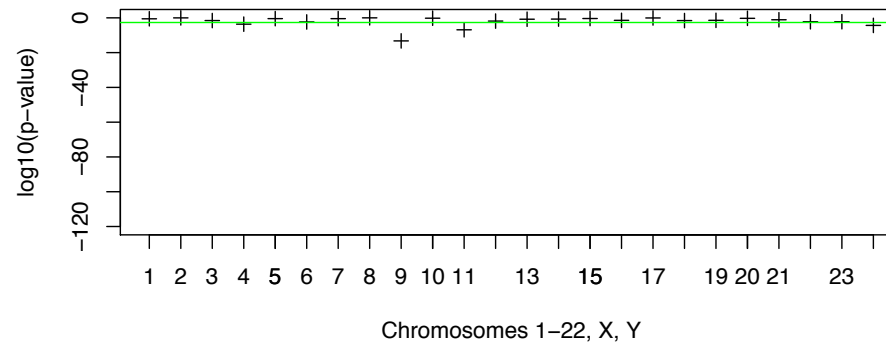
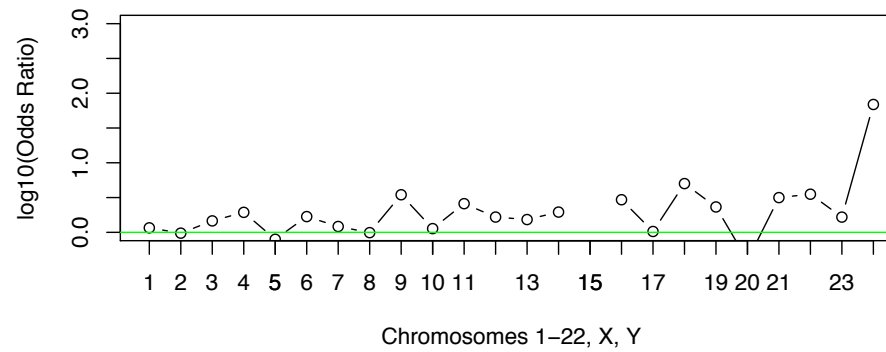
Human (DUP)

Fisher's Exact Test: Co-residence is Random or Not for Each Chromosom



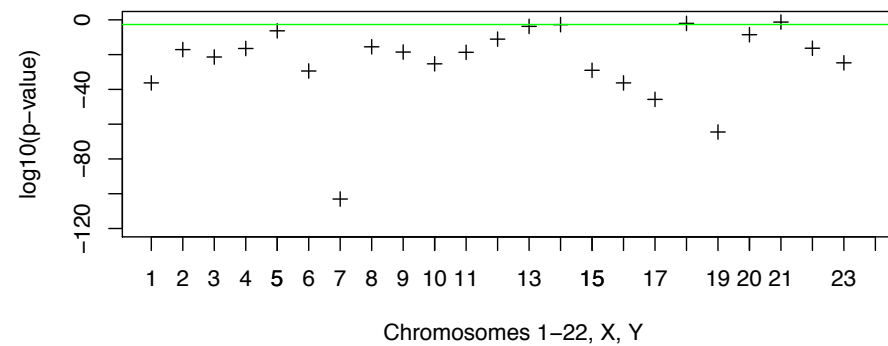
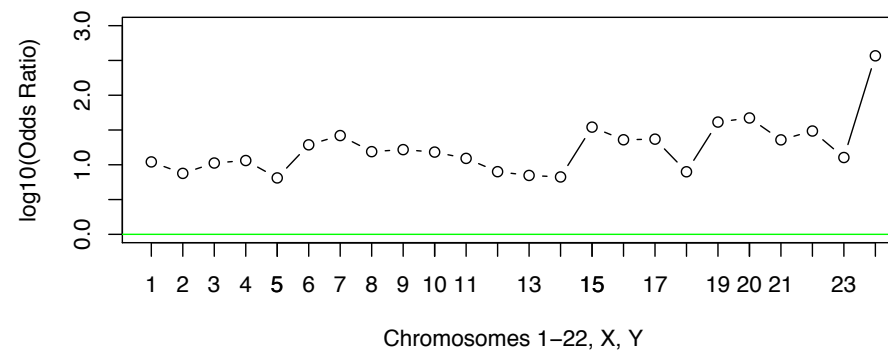
Human (PSSD)

Fisher's Exact Test: Co-residence is Random or Not for Each Chromosom



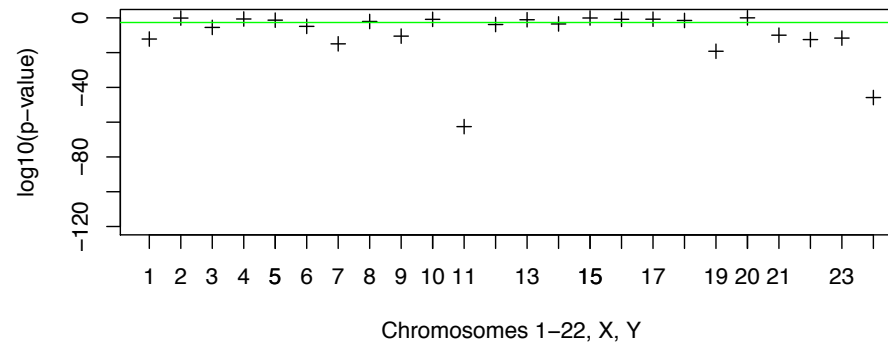
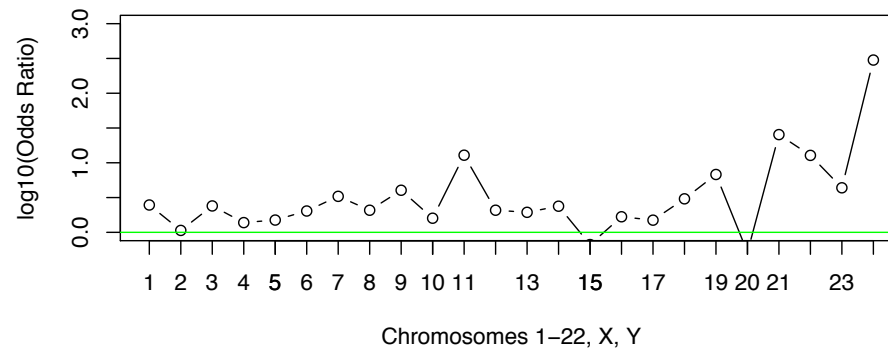
Chimp (DUP)

Fisher's Exact Test: Co-residence is Random or Not for Each Chromosom



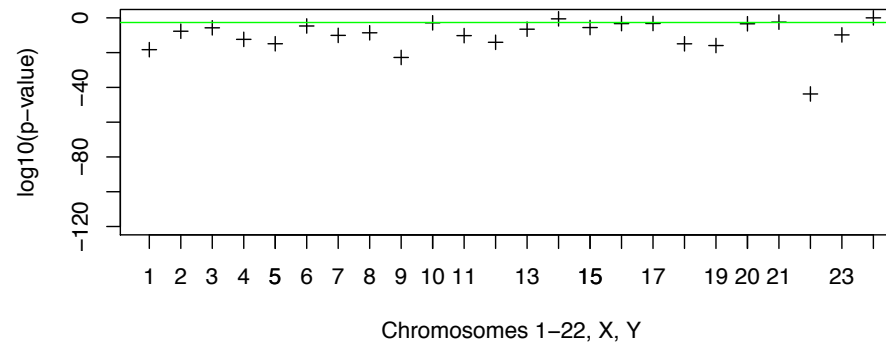
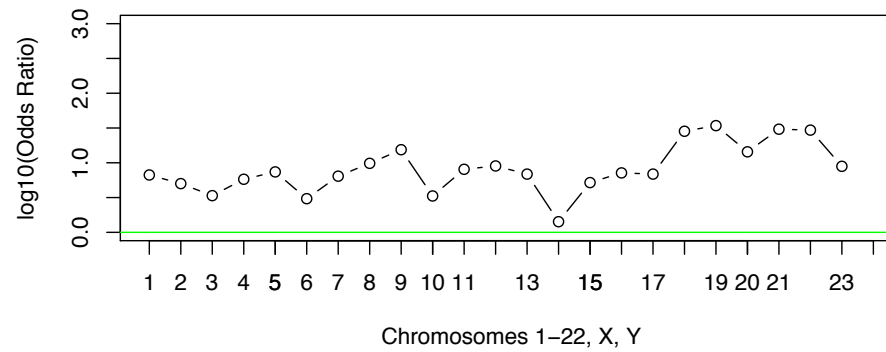
Chimp (PSSD)

Fisher's Exact Test: Co-residence is Random or Not for Each Chromosom



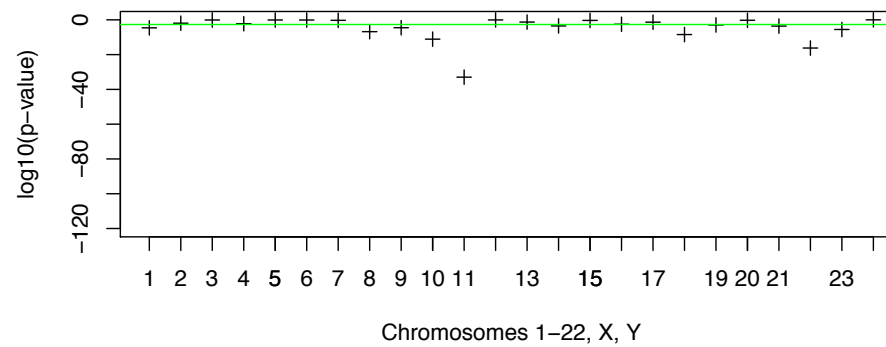
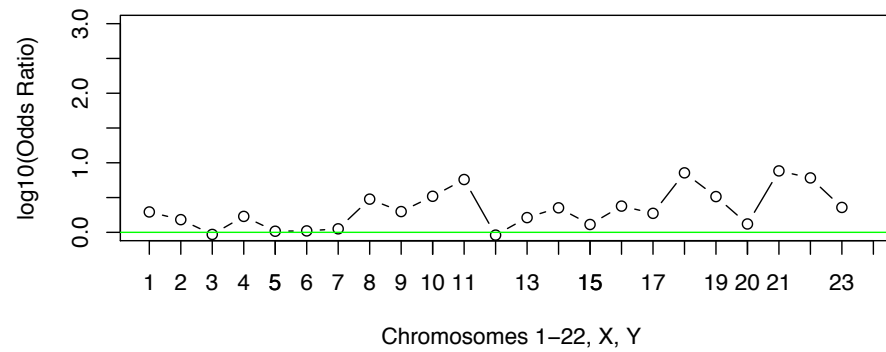
Marmoset (DUP)

Fisher's Exact Test: Co-residence is Random or Not for Each Chromosom



Marmoset (PSSD)

Fisher's Exact Test: Co-residence is Random or Not for Each Chromosom

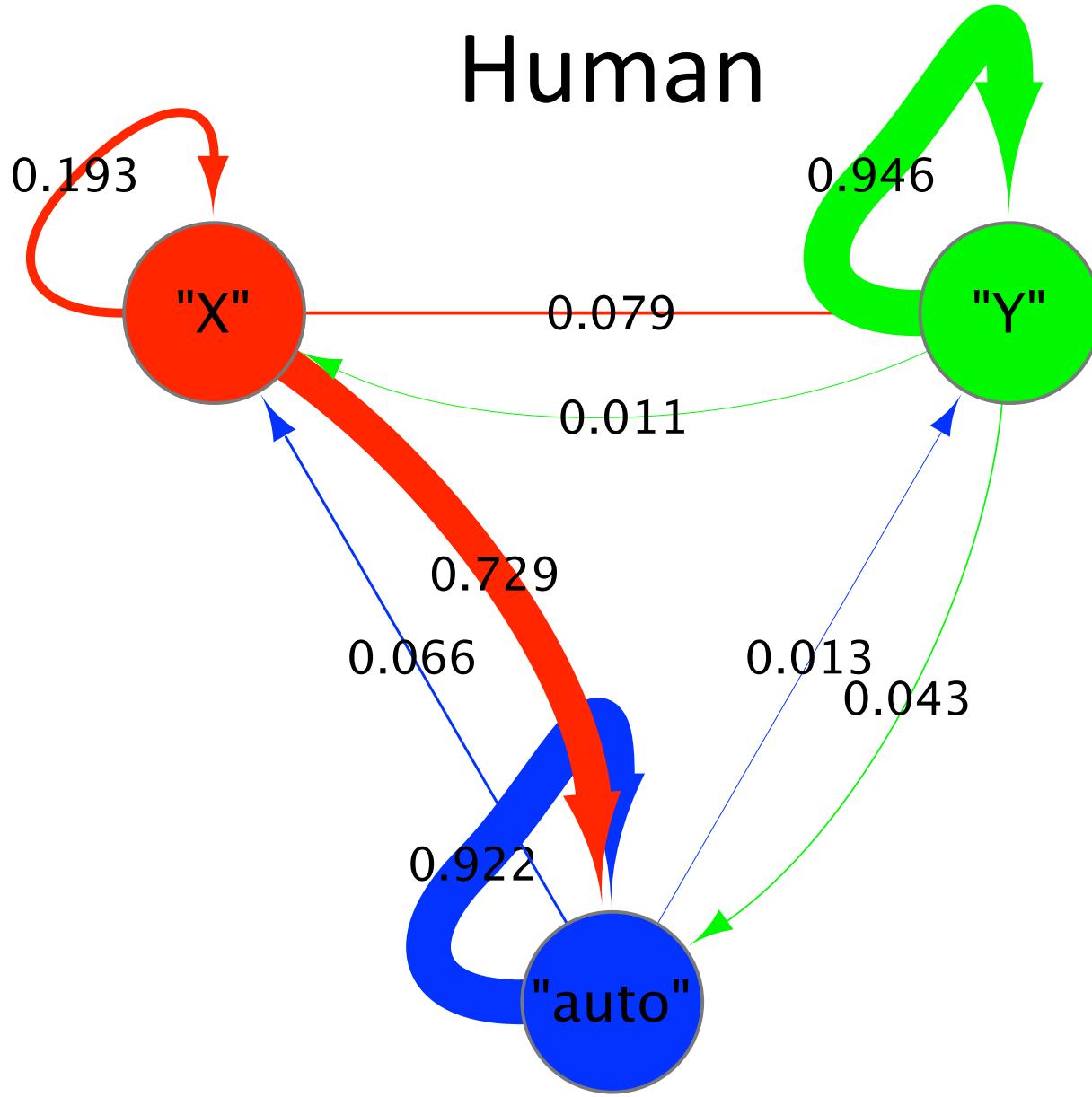


Observations

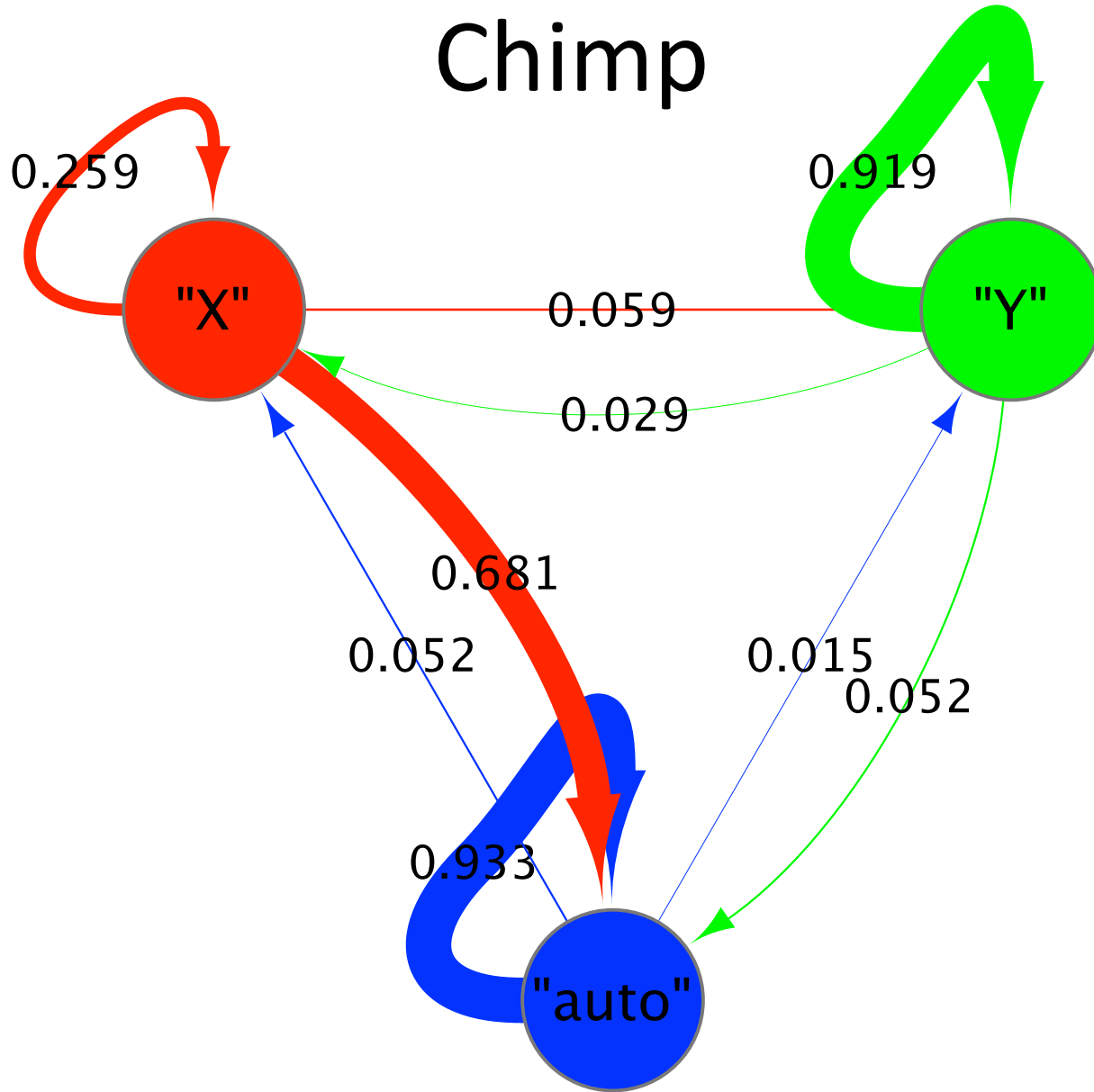
- For DUP, co-residence is significant compared to background – not random.
- For PSSD, co-residence is not as significant compared to background.

Export of DNA

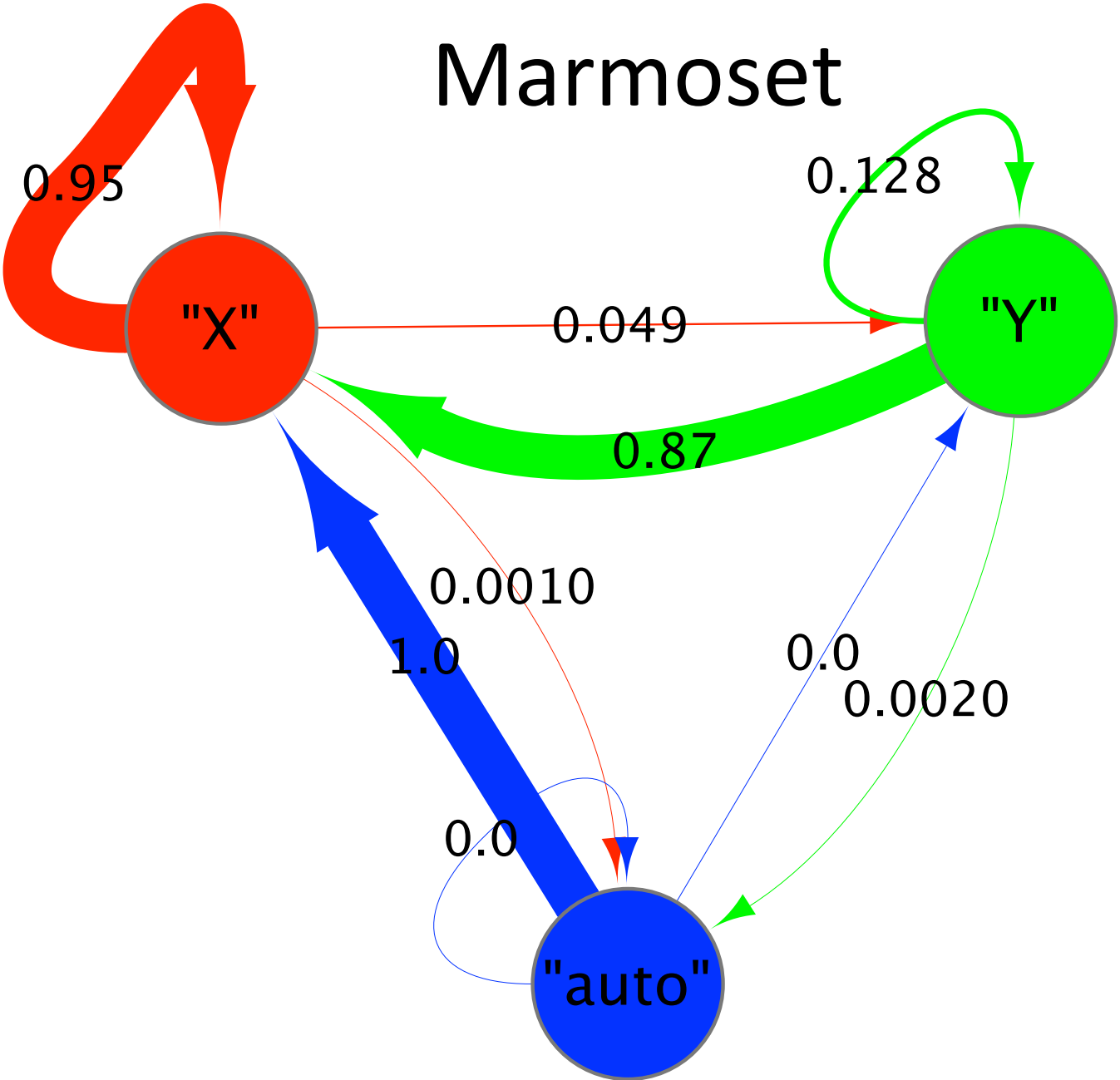
Human



Chimp

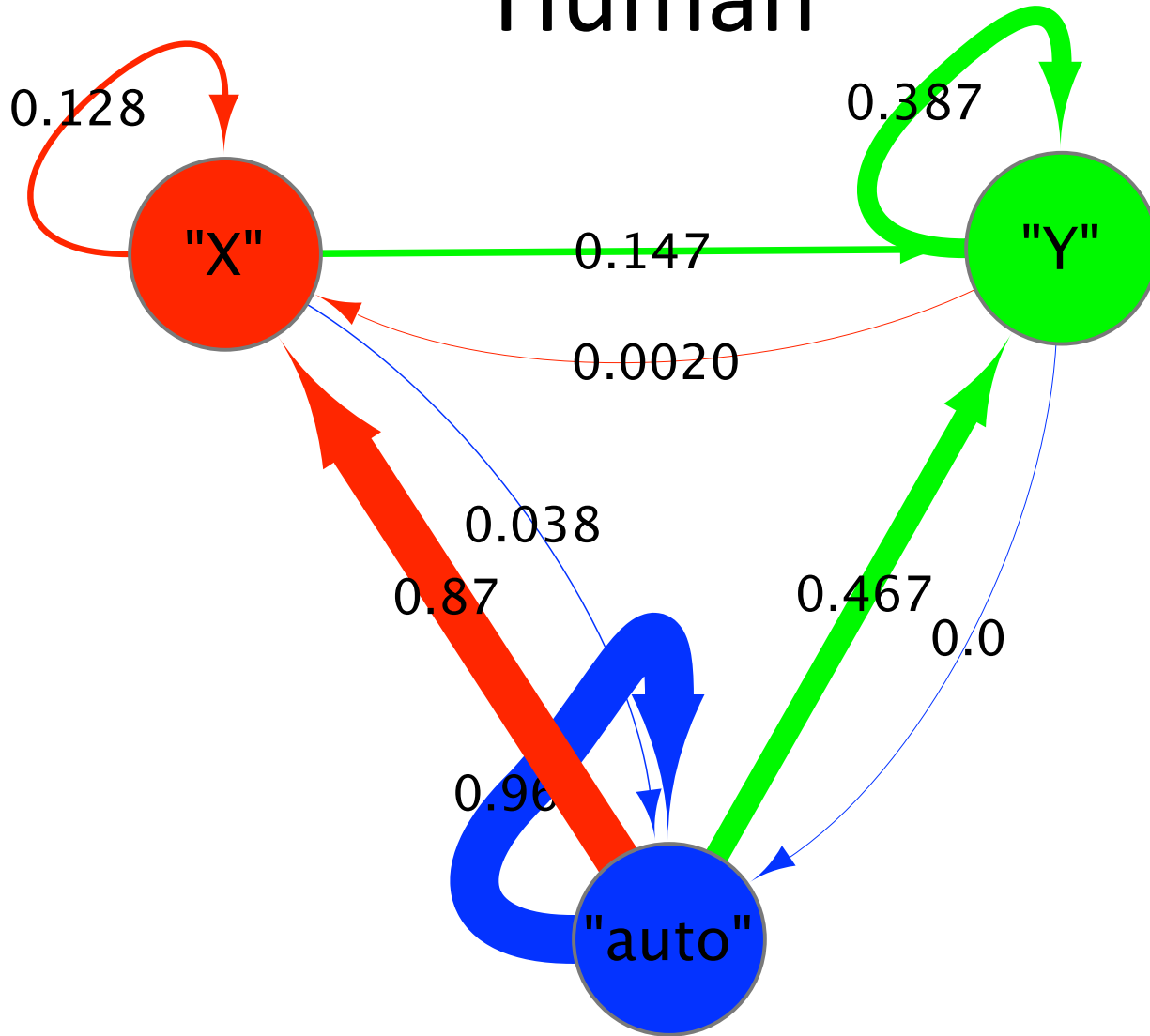


Marmoset

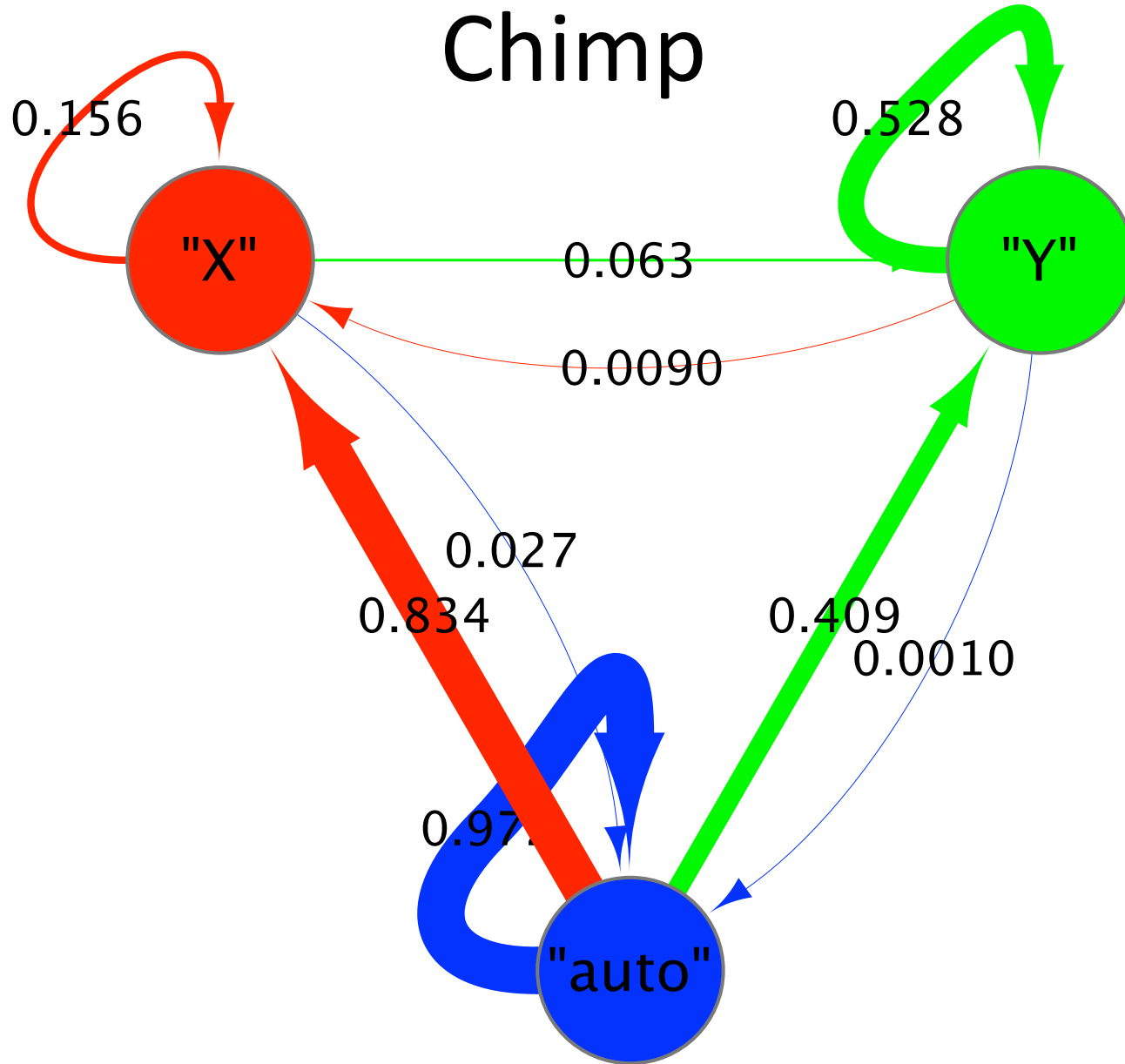


Import of DNA

Human



Chimp



Marmoset

