

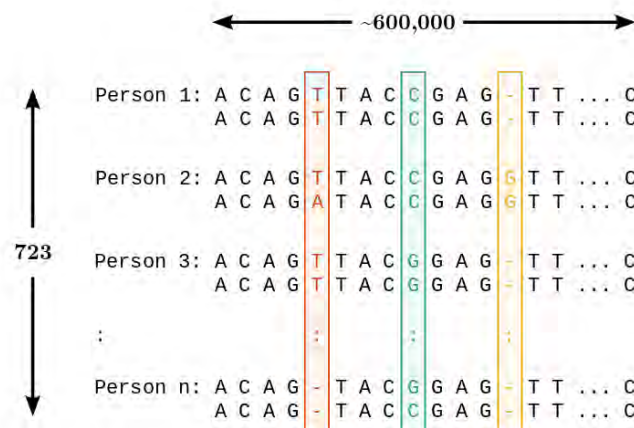
Where Are You From? SNP Genotyping Data

Jade Yu Cheng March 31, 2014

Jade Cheng: Where Are You From? Biocultural History Aarhus University March 2014



Single-Nucleotide Polymorphism (SNP)



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Approximately how long time does it take to count to 600.000 if we count one number per second?

- A. One hour
- B. One day
- C. One week
- D. One month

600.000 contributes less than only 0,02 % of the entire genome.

Single-Nucleotide Polymorphism (SNP)

Person 1:

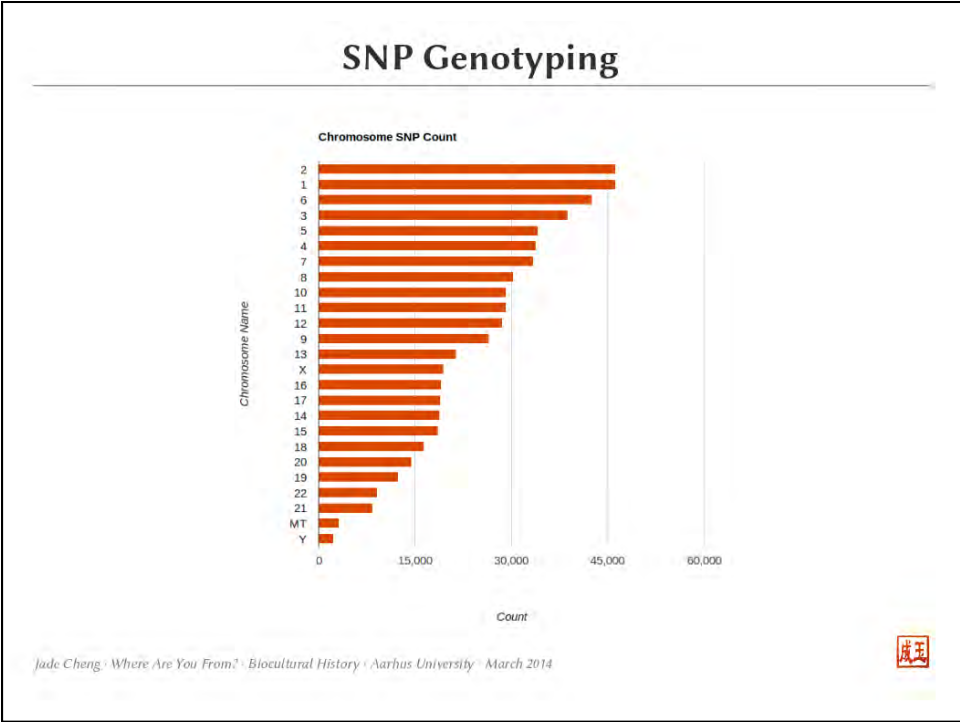
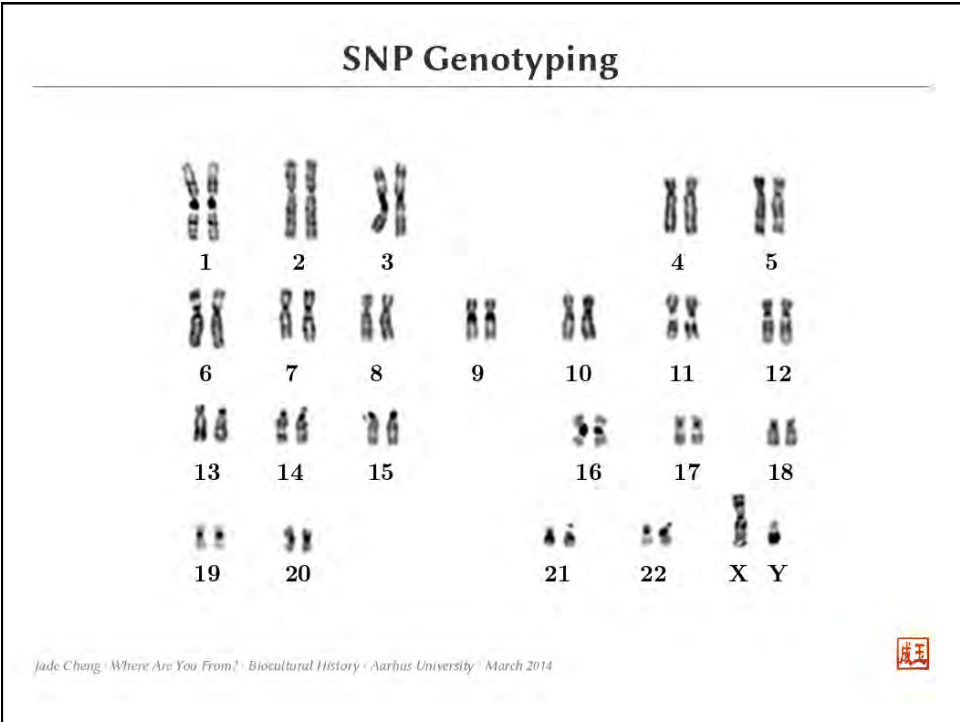
rsid	chromosome	position	genotype
rs12564807	1	734462	TT
rs3131972	1	752721	CC
:	:	:	:
i4000756	MT	16540	C

Person 2:

rsid	chromosome	position	genotype
rs12564807	1	734462	TA
rs3131972	1	752721	CC
:	:	:	:
i4000756	MT	16540	C

:





SNP Genotyping

Chromosome	Length (mm)	Total bp	Sampled bp
1	85	249250621	46285
2	83	243199373	46292
3	67	198022430	38874
4	65	191154276	33800
5	62	180915260	34250
6	58	171115067	42602
7	54	159138663	33511
8	50	146364022	30275
9	48	141213431	26530
10	46	135534747	29236
11	46	135006516	29169
12	45	133851895	28584
13	39	115169878	21442
14	36	107349540	18891
15	35	102531392	18606
16	31	90354753	19147
17	28	81195210	18955
18	27	78077248	16402
19	20	59128983	12459
20	21	63025520	14514
21	16	48129895	8451
22	17	51304566	9102
X	53	155270560	19487
Y	20	59373566	2329
mtDNA	0.0054	16569	3154

Yuhong Chen, "Who's the 'Xin' from? - Bicultural History - Aarhus University, March 2014

