Human genetics in the 21st century: using bioinformatics to link genotype and phenotype

Whitehead Institute High School Student Program 2015, Bioinformatics and Research Computing

Alter ego's name	Alter ego's ethnicity	Closest reference population

	SNP ID	your genotype	chromo- some	nearby gene?	Trait associated with your genotype	most common genotype for your population
1	rs671	AA	chr12	ALDH2	Alcohol flush	GG (for CEU)
2	rs713598	CC	chr7	TAS2R38	Can perceive bitter taste	CG (same)
3	rs2472297	TT	chr15		Slightly increased coffee consumption	СС
4	rs17822931	TT	chr16	ABCC11	Dry earwax; less body odor	СС
5	rs2802292	GG	chr6	FOX03	Slightly more likely to live to 100	GT
6	rs4988235	GG	chr2	MCM6	Lactose intolerance (appears as CC on negative strand)	AA
7	rs560887	СС	chr2	G6PC2	Slightly higher blood glucose level (GG on negative strand)	СТ
8	rs1815739	СТ	Chr11	ACTN3	Likely sprinter muscle performance	СТ
9	rs1042725	TT	chr12	HMGA2	Average height	СТ
10	rs7495174	AA	chr15	OCA2	More likely to have blue/gray eyes	AA
11	rs10427255	СС	chr2		Higher odds of photic sneeze	СТ
12	rs1426654	AA	chr15	SLC24A5	Probably light-skinned	AA
13	rs4481887	AA	chr1		More likely to smell odor in urine after eating asparagus	GG

Traits of your alter ego, based on associations:
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