

GENETIC MUSIC PROJECT

ALCOHOL

DEPENDENCE

BACKGROUND: Since all genetic information can only come in the language of four nucleotides (A Adenosine C Cytosine G Guanine T Thymidine) all genetic information is fairly easily conveyed in musical form. Back in 2008 my friend Liz Wade and I sent away to 23andme.com to get our genetic code read and from there we used the code to create music.

Take Heroin Addiction for example: Liz simply assigned A, C and G to those notes, and assigned T to a F sharp. She then repeated a 10 nucleotides sequence several times. But that is just one way to do it. To be true to the music inherent in the sequences the only consistency that has to be maintained is that—as long as you're within the same genetic marker—the nucleotides always have to be the same note, whether you assign A to A or A to G sharp.

DNA: According to 23andMe, I have a moderately lower risk (take that Irish-Russian heritage!). The genetic marker for this is on the rs27072 allele, in part below:

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CAAGGACCCA CAGGCTGCCT GAGTGGCAGT AGCCTGAGCT GGTTTCAAGG
AGTTTTATTT CTCTCTGCTG CAAGAACATA AACAGAATTT CCTGGTGAGA CATACCAGGA
CCCCATCCT CCAATGCCTC TGAACAGACT GTGTGTGCAA TGTGTCAACT
GAACGCTCAA TTTACGGCCT CTGCTGGGAG CCACGCATCG GGAAAGGACT
TTGCATGAAT TTGTGGTTTC CTCCATTTCA CTTTCTGCAC AGCTAAACCA AGCAGGACAC
TTGGCTTTTT AATATGGGCA AAGTAAATGG TCTAGGAAGC TACTGTGAGC
ACGGGGATTTC TCAGCAGGTG CGTCTACAAG GATCGTGATC CCCGCCTGAG
AACACAGTGC CCCTGGGGCA GCCTCAGAGC Y GGGAGCAGGG AGCAGGGAGG
GAGGGAGCCT CACACAGACA GCATGAAGTT AGACGTTTTT CTGCCCTGCA
GGGACAACAA CGGGGTGGAC CTCGCTGCAC AGATCTACGT CGTTATTACA
GCAACACAAG ACACGGCGAG GTGCGCTCCC GGCACGGAAA GGTGTAAACA
GTCAGAAGAG AGGAGTCTTC TGCTTTGTTG TTTGTGTTTT CAGTAGAGGT
TGAAGAGTAG AAGTTGCCCT CTTTCTCTC GAAACTTAGA TTTCTTGGT TTGTTCGTGT
CTCTCCCATT GCAGGATGAC TTCCTGGGGT CTTCGTCTCT GCTCCCTCTA
CACCTTGAGC CAGTGGCGGA GCTGGAAAGA AAACAGGTTT AGTCAGAAAC
CCTGGGGCGA TGCCCCATTT
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