

GENETIC MUSIC PROJECT

ERRORS

AVOIDANCE OF

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 the genes to effectively avoid errors! (And yes, this one both seems like and is based on some of the most speculative research that they categorize.) The genetic marker for this is on the rs1800497 allele, in part below:

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CGGCTCACTG CAACCTCTGC CTCCTGGGTT CAAGGAATTC TCCTGCCTCA
GCCTCCCTGG TAGTTGGGAT TACAGGCACG TGCCACCATA CCCAGCTAAA
TTTTGTATTT TTAGCAGAGA CAGGGTTTTG CCATGTTGGC CAGGCTGGCC TCAAACCTCTT
GATATCAGGT GATCTGCCTG CCTCAGCCTC CCAAAGTGCT GGGATTACAG
ACGTGAGCCA CCACGGCTGG CCAAGTTGTC TAAATTTCCA TCTCGGCTCC
TGGCTTAGAA CCACCCAGAG TGGCCACTGA CGGCTCCTTG CCCTCTAGGA
AGGACATGAT GCCCTGCTTT CGGCTGCGGA GGGCCAGTTG CAGGGGTGTG
CAGCTCACTC CATCCTGGAC GTCCAGCTGG GCGCCTGCCT Y GACCAGCACT
TTGAGGATGG CTGTGTTGCC CTTGAGGGCG GCCAGGTGGG CGGGTGTCCA
GCCCACCTTG TTGCGGGCGT GGACATTTGC GTGATGTTCT AGGAGGTTGA
TGACACTCAG GAAGGTGCTC CTCTGGACCG CCAGGTGGAG GGGTGTCCAG
CCTGACTGCT CTGCAGCATT GGGGTCAGCC CCACACTGCA GCAGTGCTGA
CACCACCGCC TCCTCCCCGT GCGTGCAGC TAGGTGCAGG GGAGTCCAGT
TCACAGCTCC AAGAGCACCC ATGTTTTCGT GGCTCTCTGC CAGCAGATGG
ATGATCTCCA GGTGGCCCTT GTAGGCTGCT AGATGCAGGG GTGTCCAGCC
CTGGTGGGTG GGCAGCTCAA GGCTGGCTCC GTACCTGAGC
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