

★ **Income (Hill, 2019)**

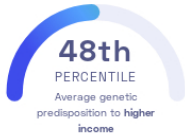
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STUDY SUMMARY

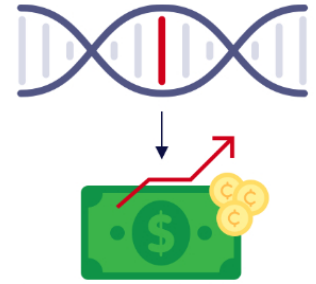
Identification of 149 genetic variants associated with income.

YOUR RESULT



STUDY DESCRIPTION

Socioeconomic position (SEP) is a measure of an individual's economic and social position. Poor health is associated with a decreased SEP, but the genetic contributions to this effect are not well studied. This study used genomic data of over 280,000 individuals of European ancestry to examine associations between genetics and income, a common measure of SEP. The researchers identified 149 genomic locations associated with income. Collectively, these variants may explain about 7% of the heritability of income differences. Some of the discovered variants are near genes that have previously been linked to intelligence, which suggests intelligence may be a factor that causes differences in income.



Many genetic variants associated with higher income have also been linked to intelligence.

DID YOU KNOW?

The study of sociogenomics has been criticized by some due to possible dystopian outcomes. For example, in the future prospective employers could ask you to submit your genetic income score as part of a job application.

YOUR DETAILED RESULTS

To calculate your genetic predisposition to higher income we summed up the effects of genetic variants that were linked to higher income in the study that this report is based on. These variants can be found in the table below. The variants highlighted in green have **positive effect sizes** and increase your genetic predisposition to higher income. The variants highlighted in blue have **negative effect sizes** and decrease your genetic predisposition to higher income. Variants that are not highlighted are not found in your genome and do not affect your genetic predisposition to higher income. By adding up the effect sizes of the highlighted variants **we calculated your polygenic score for higher income to be 0.22**. To determine whether your score is high or low, we compared it to the scores of 5,000 other Nebula Genomics users. We found that your polygenic score for higher income is in the **48th percentile**. This means that it is higher than the polygenic scores 48% of people. We consider this to be an **average genetic predisposition to higher income**. However, please note that genetic predispositions do not account for important non-genetic factors like lifestyle. Furthermore, the genetics of most traits has not been fully understood yet and many associations between traits and genetic variants remain unknown. For additional explanations, click on the column titles in the table below and visit our [Nebula Library tutorial](#).

VARIANT [Ⓞ]	YOUR GENOTYPE [Ⓞ]	EFFECT SIZE [Ⓞ]	VARIANT FREQUENCY [Ⓞ]	SIGNIFICANCE [Ⓞ]
rs1906252_A	C / A	0.02 (↑)	48%	1.39 x 10 ⁻¹⁷
rs10429582_C	C / C	0.02 (↑)	41%	1.98 x 10 ⁻¹⁷
rs3847223_T	T / T	0.02 (↑)	48%	2.24 x 10 ⁻¹⁷
rs7699488_T	C / C	-0.02 (-)	42%	3.03 x 10 ⁻¹⁵
rs159365_G	A / G	0.02 (↑)	42%	9.04 x 10 ⁻¹⁵
rs7077446_G	T / G	-0.02 (↓)	47%	1.86 x 10 ⁻¹⁴
rs6690195_T	C / T	-0.02 (↓)	49%	4.14 x 10 ⁻¹⁴
rs35309068_G	T / T	0.02 (-)	43%	6.24 x 10 ⁻¹⁴
rs62100765_T	C / C	-0.02 (-)	40%	7.58 x 10 ⁻¹⁴
rs10876864_A	A / A	-0.02 (↓)	43%	8.34 x 10 ⁻¹⁴
rs7306765_A	G / G	0.02 (-)	18%	9.04 x 10 ⁻¹⁴
rs34305371_A	G / A	0.02 (↑)	10%	2.54 x 10 ⁻¹³
rs4982712_G	A / A	0.02 (-)	39%	3.36 x 10 ⁻¹³
rs240702_T	C / T	-0.01 (↓)	42%	8.02 x 10 ⁻¹³
rs3935685_C	T / T	0.01 (-)	44%	1.08 x 10 ⁻¹²
rs7924036_T	G / T	0.01 (↑)	50%	1.29 x 10 ⁻¹²
rs4729068_G	T / G	0.01 (↑)	42%	2.01 x 10 ⁻¹²
rs62166490_T	C / C	-0.03 (-)	7%	2.20 x 10 ⁻¹²
rs254781_T	C / C	-0.01 (-)	42%	2.51 x 10 ⁻¹²
rs1112629_C	T / C	-0.01 (↓)	49%	4.06 x 10 ⁻¹²
rs17652520_A	A / A	-0.01 (↓)	22%	4.56 x 10 ⁻¹²
rs2466920_G	G / G	-0.01 (↓)	41%	5.21 x 10 ⁻¹²
rs7325960_T	T / T	0.02 (↑)	26%	7.28 x 10 ⁻¹²
rs7558283_C	T / T	0.01 (-)	48%	9.36 x 10 ⁻¹²
rs34616736_T	C / T	0.01 (↑)	43%	1.40 x 10 ⁻¹¹
rs1314114_T	T / T	-0.02 (↓)	17%	2.12 x 10 ⁻¹¹
rs9503598_A	G / A	0.01 (↑)	44%	2.50 x 10 ⁻¹¹
rs12761761_T	C / C	0.02 (-)	26%	2.72 x 10 ⁻¹¹
rs17367760_T	C / C	0.01 (-)	33%	3.63 x 10 ⁻¹¹
rs1362739_A	A / A	0.01 (↑)	48%	4.54 x 10 ⁻¹¹
rs324769_T	C / T	0.01 (↑)	45%	5.23 x 10 ⁻¹¹
rs329120_T	C / T	0.01 (↑)	42%	6.66 x 10 ⁻¹¹
rs5996767_C	T / C	0.01 (↑)	43%	6.81 x 10 ⁻¹¹
rs9822268_A	A / A	0.01 (↑)	29%	6.98 x 10 ⁻¹¹
rs11714337_A	A / A	0.01 (↑)	43%	7.70 x 10 ⁻¹¹
rs1177168_T	C / T	-0.02 (↓)	23%	9.83 x 10 ⁻¹¹
rs2332719_G	A / A	-0.01 (-)	28%	1.16 x 10 ⁻¹⁰

rs4388916_G	A / G	0.01 (↑)	44%	1.27 × 10 ⁻¹⁰
rs1594996_C	T / C	0.01 (↑)	44%	1.35 × 10 ⁻¹⁰
rs3915398_G	A / G	-0.02 (↓)	11%	1.49 × 10 ⁻¹⁰
rs6028090_A	G / A	0.01 (↑)	45%	1.50 × 10 ⁻¹⁰
rs10483349_G	A / A	0.02 (-)	18%	1.65 × 10 ⁻¹⁰
rs3738200_G	T / T	-0.02 (-)	17%	2.13 × 10 ⁻¹⁰
rs28491529_G	A / A	-0.01 (-)	29%	2.19 × 10 ⁻¹⁰
rs10165663_G	G / G	-0.01 (↓)	49%	2.47 × 10 ⁻¹⁰
rs56221663_G	A / A	-0.02 (-)	16%	2.52 × 10 ⁻¹⁰
rs77966298_G	A / A	0.02 (-)	13%	2.53 × 10 ⁻¹⁰
rs1566085_T	G / T	0.01 (↑)	46%	2.59 × 10 ⁻¹⁰
rs6430030_T	C / T	0.01 (↑)	42%	2.77 × 10 ⁻¹⁰
rs10456918_C	A / C	0.02 (↑)	18%	3.24 × 10 ⁻¹⁰
rs12442330_C	C / C	0.01 (↑)	45%	3.24 × 10 ⁻¹⁰
rs17425572_G	G / G	-0.01 (↓)	47%	4.01 × 10 ⁻¹⁰
rs12151248_T	C / C	-0.01 (-)	12%	4.04 × 10 ⁻¹⁰
rs4506495_C	T / T	-0.02 (-)	17%	4.17 × 10 ⁻¹⁰
rs6459480_A	G / A	-0.01 (↓)	45%	4.69 × 10 ⁻¹⁰
rs4567409_G	A / G	-0.01 (↓)	49%	4.81 × 10 ⁻¹⁰
rs12119149_T	C / T	0.01 (↑)	27%	5.24 × 10 ⁻¹⁰
rs9388490_T	C / T	0.01 (↑)	43%	5.74 × 10 ⁻¹⁰
rs12954483_G	G / G	-0.01 (↓)	10%	5.80 × 10 ⁻¹⁰
rs11548200_C	T / T	-0.03 (-)	7%	6.97 × 10 ⁻¹⁰
rs4140762_G	A / G	-0.01 (↓)	49%	7.29 × 10 ⁻¹⁰
rs131155_G	G / G	-0.01 (↓)	47%	7.95 × 10 ⁻¹⁰
rs6429082_C	T / C	0.01 (↑)	48%	8.38 × 10 ⁻¹⁰
rs4800490_C	A / C	0.01 (↑)	50%	1.08 × 10 ⁻⁹
rs10798888_T	G / G	-0.02 (-)	17%	1.11 × 10 ⁻⁹
rs12640626_A	G / A	0.01 (↑)	43%	1.12 × 10 ⁻⁹
rs12274865_T	C / C	0.01 (-)	44%	1.32 × 10 ⁻⁹
rs7597007_T	G / G	-0.01 (-)	35%	1.46 × 10 ⁻⁹
rs6699397_G	A / A	-0.01 (-)	37%	1.59 × 10 ⁻⁹
rs10830568_A	C / A	0.01 (↑)	49%	1.90 × 10 ⁻⁹
rs12967855_G	A / G	0.01 (↑)	33%	2.01 × 10 ⁻⁹
rs12188937_C	T / C	0.01 (↑)	46%	2.41 × 10 ⁻⁹
rs3769983_A	G / G	-0.01 (-)	49%	2.56 × 10 ⁻⁹
rs1866823_A	G / G	0.01 (-)	45%	2.70 × 10 ⁻⁹
rs17414302_A	G / G	0.02 (-)	10%	2.78 × 10 ⁻⁹
rs37976_T	C / C	0.01 (-)	44%	3.14 × 10 ⁻⁹
rs264038_C	T / C	0.01 (↑)	47%	3.18 × 10 ⁻⁹
rs7144329_G	A / G	0.01 (↑)	42%	3.38 × 10 ⁻⁹
rs56194430_T	C / C	-0.02 (-)	16%	3.43 × 10 ⁻⁹
rs7025335_G	A / G	0.01 (↑)	44%	3.56 × 10 ⁻⁹
rs306755_C	T / T	0.01 (-)	47%	3.82 × 10 ⁻⁹
rs1421334_C	A / A	0.01 (-)	45%	4.06 × 10 ⁻⁹
rs9342115_C	T / T	-0.02 (-)	8%	4.53 × 10 ⁻⁹
rs78689878_A	NA	0.03 (-)	3%	4.68 × 10 ⁻⁹
rs10780467_T	C / C	-0.01 (-)	42%	4.81 × 10 ⁻⁹
rs3911063_C	T / C	0.01 (↑)	32%	5.01 × 10 ⁻⁹
rs7072694_A	G / A	0.01 (↑)	48%	5.08 × 10 ⁻⁹
rs12670901_A	A / A	0.01 (↑)	45%	5.45 × 10 ⁻⁹
rs2910583_T	C / T	0.01 (↑)	46%	5.57 × 10 ⁻⁹
rs7272983_C	T / T	-0.02 (-)	16%	5.94 × 10 ⁻⁹
rs15114485_A	NA	-0.01 (-)	2%	5.96 × 10 ⁻⁹
rs2160514_C	C / C	0.01 (↑)	44%	6.14 × 10 ⁻⁹
rs7693485_C	T / T	0.01 (-)	48%	6.18 × 10 ⁻⁹
rs7908463_C	C / C	0.01 (↑)	44%	6.21 × 10 ⁻⁹
rs12466227_G	G / G	-0.01 (↓)	45%	6.63 × 10 ⁻⁹
rs3087523_A	G / G	-0.02 (-)	12%	7.24 × 10 ⁻⁹

rs5754738_G	G / G	-0.01 (↓)	28%	7.27 × 10 ⁻⁹
rs2721173_T	C / C	-0.01 (-)	47%	7.43 × 10 ⁻⁹
rs17565975_A	G / A	-0.01 (↓)	43%	7.72 × 10 ⁻⁹
rs58249351_A	G / G	-0.01 (-)	24%	8.49 × 10 ⁻⁹
rs784256_A	A / A	-0.01 (↓)	18%	8.58 × 10 ⁻⁹
rs62262084_T	C / C	-0.01 (-)	25%	9.46 × 10 ⁻⁹
rs2563332_T	C / C	-0.01 (-)	21%	9.90 × 10 ⁻⁹
rs1158857_A	G / G	0.01 (-)	20%	9.99 × 10 ⁻⁹
rs10892807_T	C / T	0.01 (↑)	43%	1.04 × 10 ⁻⁸
rs4386322_T	C / C	-0.02 (-)	9%	1.08 × 10 ⁻⁸
rs10103003_C	C / C	0.01 (↑)	46%	1.08 × 10 ⁻⁸
rs6678546_A	G / G	0.01 (-)	48%	1.13 × 10 ⁻⁸
rs873563_C	A / A	0.01 (-)	48%	1.13 × 10 ⁻⁸
rs12647647_A	T / T	0.01 (-)	28%	1.14 × 10 ⁻⁸
rs1455350_A	T / A	-0.01 (↓)	47%	1.16 × 10 ⁻⁸
rs2068012_C	T / T	-0.01 (-)	23%	1.41 × 10 ⁻⁸
rs17771137_A	G / A	0.01 (↑)	26%	1.49 × 10 ⁻⁸
rs11853991_G	A / A	0.01 (-)	32%	1.56 × 10 ⁻⁸
rs2402341_C	T / T	-0.01 (-)	48%	1.58 × 10 ⁻⁸
rs4727618_A	G / A	-0.01 (↓)	48%	1.67 × 10 ⁻⁸
rs146301099_T	G / G	-0.01 (-)	49%	1.69 × 10 ⁻⁸
rs139897186_G	NA	-0.01 (-)	2%	1.71 × 10 ⁻⁸
rs1470375_G	T / T	0.01 (-)	48%	1.78 × 10 ⁻⁸
rs6449674_C	C / C	-0.01 (↓)	48%	1.96 × 10 ⁻⁸
rs40087_A	A / A	0.01 (↑)	45%	1.99 × 10 ⁻⁸
rs61989671_C	A / A	0.02 (-)	16%	2.02 × 10 ⁻⁸
rs1462813_A	G / G	-0.01 (-)	44%	2.08 × 10 ⁻⁸
rs72669450_G	A / A	0.01 (-)	18%	2.13 × 10 ⁻⁸
rs62427469_G	A / A	-0.01 (-)	18%	2.19 × 10 ⁻⁸
rs17488728_T	T / T	-0.01 (↓)	45%	2.19 × 10 ⁻⁸
rs1148375_T	C / C	-0.01 (-)	43%	2.19 × 10 ⁻⁸
rs152599_T	G / T	0.01 (↑)	37%	2.22 × 10 ⁻⁸
rs1978102_T	T / T	-0.01 (↓)	47%	2.27 × 10 ⁻⁸
rs4539421_C	C / C	0.02 (↑)	11%	2.30 × 10 ⁻⁸
rs2414073_C	A / A	-0.01 (-)	44%	2.33 × 10 ⁻⁸
rs6596572_A	G / G	-0.01 (-)	49%	2.36 × 10 ⁻⁸
rs7029475_C	T / C	-0.01 (↓)	49%	2.36 × 10 ⁻⁸
rs72905046_G	A / A	0.01 (-)	43%	2.39 × 10 ⁻⁸
rs1325920_A	A / A	-0.02 (↓)	15%	2.73 × 10 ⁻⁸
rs923512_G	A / A	-0.02 (-)	15%	2.79 × 10 ⁻⁸
rs13224222_T	C / T	-0.01 (↓)	46%	2.81 × 10 ⁻⁸
rs6477496_T	C / C	0.01 (-)	19%	2.86 × 10 ⁻⁸
rs337940_T	T / T	-0.01 (↓)	43%	3.03 × 10 ⁻⁸
rs9517310_T	C / C	0.01 (-)	31%	3.09 × 10 ⁻⁸
rs1729412_C	T / C	0.01 (↑)	42%	3.33 × 10 ⁻⁸
rs10984445_A	G / A	0.01 (↑)	45%	3.34 × 10 ⁻⁸
rs28896784_G	T / G	0.01 (↑)	23%	3.60 × 10 ⁻⁸
rs32940_C	T / C	0.01 (↑)	30%	3.73 × 10 ⁻⁸
rs11943536_T	C / C	0.01 (-)	24%	3.92 × 10 ⁻⁸
rs28568559_C	T / T	0.01 (-)	11%	4.11 × 10 ⁻⁸
rs118134876_T	C / C	-0.02 (-)	6%	4.15 × 10 ⁻⁸
rs725348_T	C / C	-0.01 (-)	43%	4.49 × 10 ⁻⁸
rs12754946_C	C / C	-0.01 (↓)	45%	4.73 × 10 ⁻⁸

N/A indicates variants that could not be imputed using the 1000 genomes project datasets and variants that have a frequency of < 5%. Your genome was sequenced at 30x/100x coverage and is not imputed. However, to calculate percentiles, we need to compare your data with other users imputed data. To make the data comparable, we need to exclude some of the variants from your data.