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## ★ Coronary artery disease (Lee, 2013)

Ji-Young Lee, et al.  
Journal of Human Genetics

Heart

### STUDY SUMMARY

This study found several genetic variants associated with coronary artery disease by including a more ethnically diverse population than previous studies.

### STUDY DESCRIPTION

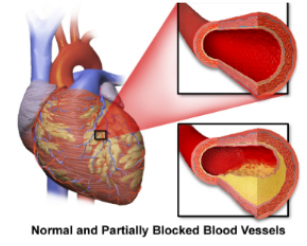
Coronary artery disease (CAD) is the main cause of death and disability worldwide. It is the narrowing or blocking of the coronary *arteries*, which can eventually cause a heart attack or stroke. It is estimated that 30-60% of the individual variation in the risk of CAD is due to genetic factors. This study took previously reported genetic variants associated with CAD in European populations and tested their significance in a cohort of 13,742 individuals of Korean and Japanese ancestries. This revealed multiple genetic variants that are associated with CAD across different populations. The study also identified one novel genetic variant that is associated with CAD.


### DID YOU KNOW?

In order to reduce your risk of coronary artery disease, you should lower your blood pressure and cholesterol levels through things like eating healthy, exercising regularly, and reducing your alcohol consumption.

### YOUR DETAILED RESULTS

The variants highlighted in green have **positive effect sizes** and increase your genetic predisposition to coronary artery disease. The variants highlighted in blue have **negative effect sizes** and decrease your genetic predisposition to coronary artery disease. Variants that are not highlighted are not found in your genome and do not affect your genetic predisposition to coronary artery disease. 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 <sup>Ⓞ</sup>	YOUR GENOTYPE <sup>Ⓞ</sup>	EFFECT SIZE <sup>Ⓞ</sup>	VARIANT FREQUENCY <sup>Ⓞ</sup>	SIGNIFICANCE <sup>Ⓞ</sup>
rs3782889_G 	A / A	0.23 (-)	21%	$3.95 \times 10^{-14}$
rs1333049_G	G / G	0.23 (↑)	55%	$6.05 \times 10^{-9}$