Supplementary material: Flowchart of genetic risk score development.

Genetic risk score #1

In a previous study by our group (Rudkowska I, *J Lipid Res.* 2014), a first genetic risk score (GRS) was built from 10 SNPs identified in a genome-wide association study of the plasma triglyceride (TG) response to an omega-3 fatty acid supplementation on Caucasian Canadians. The GRS explained 21.53% of TG variation.



Genetic risk score #2

In this study, the GRS #1 was replicated in the Mexican population using 7 of the 10 SNPs. This GRS did not explain TG variation.



Genetic risk score #3

A third GRS was built using all 103 SNPs that were genotyped in the Mexican population. This GRS explained 4.37% of TG variation (Figure 1).



Genetic risk score #4

A stepwise regression was used to select the most relevant SNPs to include in the GRS among the 103 SNPs used in the GRS #3, and left 5 SNPs. A fourth GRS was built using these 5 SNPs (Figure 2). This last GRS explained 11.01% of TG variation.