

3rd World Congress on

HUMAN GENETICS AND GENETIC DISORDERS

October 20-21, 2017 | Toronto, Canada

Significant association between TNF variant and cardio artery disease in a Hubei population

Duraïd Hamid Najî Al-Midfai

Huazhong University of Science and Technology, China

The paper discusses about the association between SNP rs5063 in the TNF or OPG gene and encoding *osteoprotegerin* and cardio artery disease. CAD is caused by atherosclerosis in brain vessels. OPG SNP rs5063 showed significant association with cardio artery disease in a population with diabetes from Italy. Other researchers in our laboratory found that SNP rs5063 was significantly associated with cardio artery disease in the Hubei population. Specifically, SNP rs5063 showed a significant association with cardio artery disease in the Central Gene ID cohort (adjusted P_{adj} , OR) and in the Northern Gene ID independent cohort (P_{adj} , OR). The association became highly significant in the combined population (P_{adj} , OR). My role in the project was to perform quantitative real-time RT-PCR analysis to determine whether SNP5063 is associated with the OPG mRNA expression level. Interestingly, minor allele C of rs5063 was significantly associated with an increased mRNA expression level of OPG. Together, these data suggest that SNP rs5063 is a functional genetic variant associated with the expression level of OPG and risk of *Cardio Artery Disease*.

Biography

Duraïd Hamid Najî Al-Midfai has completed his BSc in Biochemical Technology from University of Technology, Iraq, MSc in Applied Genetics from Bangalore University, India and PhD in Genetics from Huazhong University of Science and Technology, China.

duraïdhamied@gmail.com