

Applicant

Dr. Dennis Mook-Kanamori, Leiden University
Trainee: Tariq Faquih

E-mail Address

d.o.mook-kanamori@lumc.nl

Project Title

GWAS on missing metabolites

Project Summary

Single nucleotide polymorphisms have been found to be associated with the compromise metabolomic pathways which in turn prevents the expression of some metabolites or greatly reduces their levels abnormally below the detection threshold of the measurement instrument and vice versa. In this study we are performing a genome wide association study to identify SNPs associated with metabolomic dysfunction. We define dysfunction as the abnormal absence or presence of metabolites in which the metabolite is missing in more than 10% and less than 90% of the study population as measured by ultra-high-performance liquid chromatography mass spectrometry.

Keywords

GWAS, Metabolomics, Metabolic dysfunction