Allergic distribution of the normal ATP6V10 gene in a sample of a Peruvian American population: an exploratory study


Background. The ATP6V10 gene is located on chromosome 16 and encodes for a protein involved in the generation of the transmembrane potential of mitochondria. The variant, which is common in the Peruvian population, has been associated with an increased risk of developing diabetes mellitus type 2 (DM2) and hypertension.

Objective. To determine the distribution of the ATP6V10 gene in a sample of Peruvian individuals.

Methods. A total of 100 individuals from the general population were genotyped for the ATP6V10 gene using a high-throughput sequencing approach.

Results. The variant was present in 30% of the individuals, with a higher frequency in individuals with DM2.

Conclusion. The ATP6V10 gene variant is associated with an increased risk of developing DM2 in the Peruvian population.