START
Nucleotide (NCBI)
mtDNA sequence search
(016550[SLEN]:016580[SLEN]) AND Homo[Organism] AND mitochondrion[FILT] AND diabetes
Complete mtDNA sequences of Homo sapiens from diabetic or healthy patients, without comorbidity.
No
Elimination
yes
1261 case sequences and 1105 control sequences were obtained
Download of sequences in FASTA format
Genome Browser BLAT (UCSC)
Genomic alignment and comparison with rCRS
Pubmed (NCBI)
Literature review for the identification of SNPs of interest
SNPs were searched for in the regions corresponding to the MT-RNR1, MT-NRN2, SHLP3 and SHLP6 genes The .SNPs found in Sobenin et al. 2013, Volobueva et al. 2019, Miller et al. 2020, Dabravolski et al. 2021, Schiano et al. 2021, Dabravolski et al. 2022, Rochette et al. 2022 were included.
213 SNPs of interest were identified
Search for SNPs within our database
dbSNP 153 and SNPedia
Database creation in BLAT
Statistical analysis of the findings