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ApoE genotyping in DNA samples from PPMI

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Summary

ApoE genotyping was performed on 304 DNA samples collected according to the PPMI Research Biomarkers Laboratory Manual. Genotypes were determined with the use of allele-specific oligonucleotide probes labeled with fluorogenic reporter dyes (TaqMan method).

Method

Two non-synonymous single nucleotide polymorphisms (SNPs), rs429358 (*APOE*-C112R) and rs7412 (*APOE*-R158C) were genotyped in each sample in order to distinguish between *APOE* ε2, ε3 and ε4 alleles. Taqman Assays (Applied Biosystems Assay-On-Demand part numbers C__3084793_20 and C__904973_10) were used per manufacturers protocol to genotype these SNPs on a 7900HT Sequence Detection System (Applied Biosystems). PCR amplification, plate read and allelic discrimination were performed on SDS instrumentation using the Computer Software SDS V2.4 2010.

References

Livak KJ. Allelic discrimination using fluorogenic probes and the 5' nuclease assay. Genet Anal. 1999 Feb;14(5-6):143-9. PubMed PMID: 10084106.

Taqman SNP Genotyping Assays Protocol:
http://www3.appliedbiosystems.com/sup/URLRedirect/index.htm?xDoD=4332856

Parkinson's Progression Marker Initiative Research Biomarkers Laboratory Manual (Biologic Manual) http://www.ppmi-info.org/wp-content/uploads/2011/05/PPMI-Biologics-Manual-April-2011-FINAL.pdf

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