PARKINSON'S PROGRESSION MARKERS INITIATIVE

Play a Part in Parkinson's Research

PPMI RNA Reference Pools

PPMI Biorepository Core – Indiana University School of Medicine

PPMI Reference Pools

It is important that reference pools of CSF, plasma, serum, and RNA are available to investigators of approved PPMI distributions. The goal of these pools is not to provide the full range of potential biomarker values. Rather, the reference pools are designed to be used across experiments to adjust for assay variation. Reference pools of varying size are created to meet differing needs of investigators.

Method

1. PPMI RNA Reference Pools 1 – PD and HC

The PPMI Biorepository Core at Indiana University created two RNA reference pools, one generated from RNA samples from PD subjects and the other from RNA samples from HC subjects. Only aliquots from the PPMI Biorepository Core at Indiana University were used for this reference pool experiment.

RNA aliquots with <1µg mass were preferentially selected from samples from PD and HC subjects. Aliquots of this mass had been generated by the PPMI Biorepository Core at the time of subaliquoting extracted RNA at the PPMI Biorepository Core. A total of 619 PD RNA aliquots and 427 HC aliquots were thawed and pooled within one day to create these pools.

The RNA pools were designed to combine a large number of RNA aliquots from PD and HC subjects. Each reference pool aliquot would have a mass of 1µg. The goal of this RNA reference pool design was to obtain 200 PD RNA reference aliquots and 200 HC RNA reference aliquots. This large number of aliquots will be necessary for the planned RNA biomarker assays that will ultimately utilize a RNA sample from every PPMI subject visit.

A total of 200 PD RNA aliquots and 176 HC aliquots were produced. Each 1µg reference pool aliquot was labeled and sequentially numbered.

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References

See also, Reference Pool Creation SOP, Appendix A

About the Authors

This document was prepared by the PPMI Biorepository Core at Indiana University School of Medicine, Department of Medical and Molecular Genetics, Core Leader, Tatiana Foroud, PhD. For more information please contact ppmibio@iu.edu.