

Supplemental Figure 1

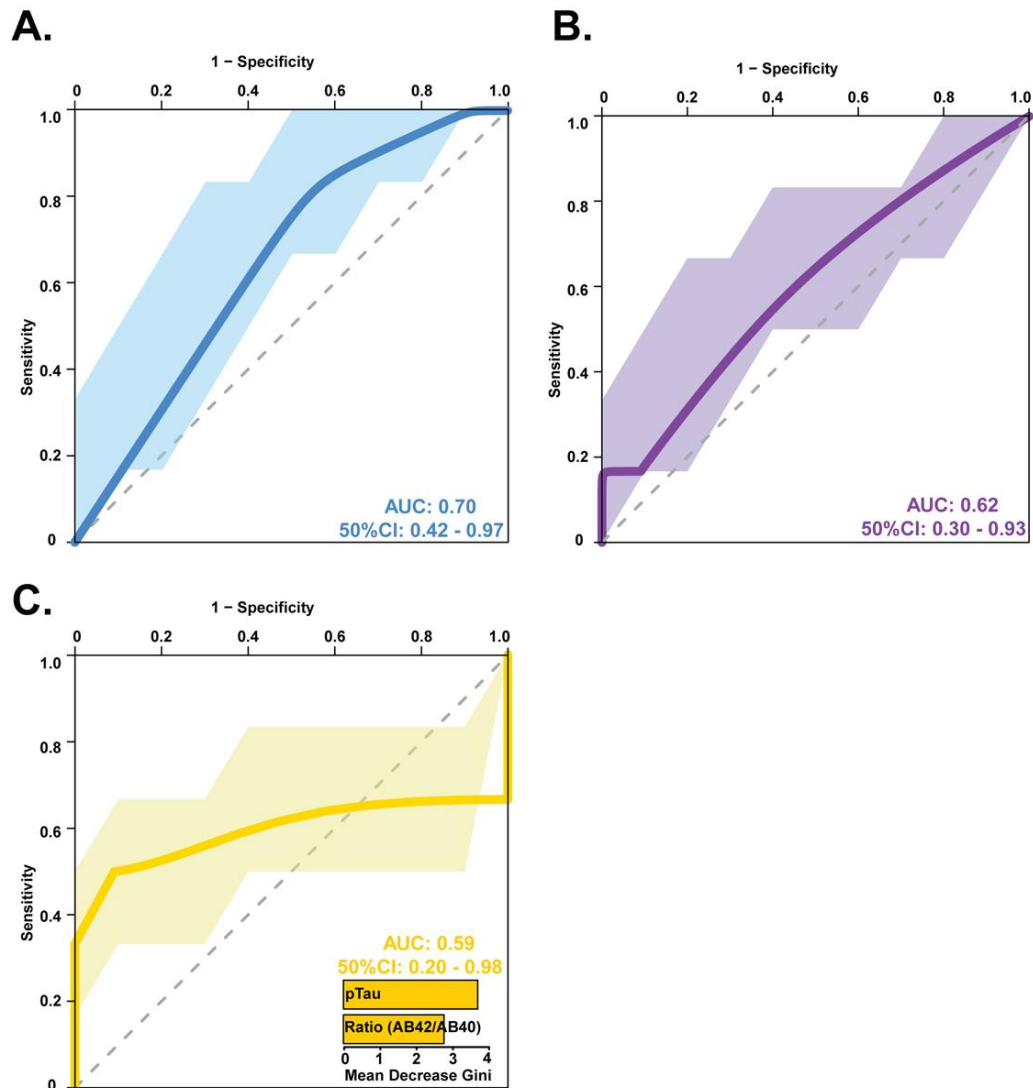


Fig S1. Performance evaluation of miRNA and combined mi/piRNA signature on DCN cohort. **A.** AUC of 0.70 was obtained when the miRNAs signature is evaluated on DCN cohort suggesting decent predictive abilities from mciStable to mciAD. **B.** AUC of 0.62 was obtained when the sncRNAs signature is evaluated on DCN cohort suggesting poor predictive abilities from mciStable to mciAD. **C.** AUC of 0.59 was obtained when pTau and Ab42/40 ratio was used to predict conversion of mciStable to mciAD.

piRNA	Annotation	Symbol	Gene Chr	Gene Start	Gene End	Gene Length	Gene Strand	Genelid	TranscriptId	Distance to TSS	Ensembl Gene ID	Official Full Name
hsa_piR_019324 chr5:71851020-71851050 +	Distal Intergenic	CARTPT	chr5	71014990	71016875	1886	+	9607	uc003kbv.2	131858	ENSG00000164326	CART prepropeptide
hsa_piR_019949 chr11:122559947-122559977 +	Exon (uc021qrq.1/uc021qrq.1, exon 1 of 1)	UBASH3B	chr11	122526398	122685187	158790	+	84959	uc001pyi.4	-95713	ENSG00000154127	ubiquitin associated and SH3 domain containing B
hsa_piR_020364 chr10:72972395-72972420 -	Distal Intergenic	PLA2G12B	chr10	74694938	74714510	19573	-	84647	uc001jtf.1	-17668	ENSG00000138308	phospholipase A2, group XIIB
hsa_piR_020364 chr14:102317092-102317117 +	Promoter (<=1kb)	ZNF839	chr14	102783714	102809511	25798	+	55778	uc001ylo.3	-260	ENSG00000022976	zinc finger protein 839
hsa_piR_020364 chr17:8227039-8227064 -	3' UTR	LINC00324	chr17	8123948	8127361	3414	-	284029	uc002gkp.4	-3021	ENSG00000178977	long intergenic non-protein coding RNA 324
hsa_piR_020364 chr2:50936204-50936229 -	Intron (uc021vhg.1/9378, intron 21 of 22)	NRXN1	chr2	50145643	51256332	1110690	-	9378	uc021vhg.1	92989	ENSG00000179915	neurexin 1
hsa_piR_020364 chr6:27177263-27177288 -	Exon (uc021ypd.1/uc021ypd.1, exon 1 of 1)	HIST1H2BK	chr6	27106072	27114637	8566	-	85236	uc003nix.2	-30430	ENSG00000197903	histone cluster 1, H2bk
hsa_piR_020364 chr6:27237619-27237644 -	Exon (uc021ypk.1/uc021ypk.1, exon 1 of 1)	POM121L2	chr6	27276842	27280011	3170	-	94026	uc011dku.1	74612	ENSG00000158553	POM121 transmembrane nucleoporin-like 2
hsa_piR_020364 chr6:27293892-27293917 +	Exon (uc021ypq.1/uc021ypq.1, exon 1 of 1)	VN1R10P	chr6	27292540	27293741	1202	+	387316	uc010jqt.4	-30844	ENSG00000220758	vomer nasal 1 receptor 10 pseudogene
hsa_piR_020364 chr6:26554122-26554147 +	Exon (uc021ynp.1/uc021ynp.1, exon 1 of 1)	HMGN4	chr6	26538572	26547164	8593	+	10473	uc003nig.3	15779	ENSG00000182952	high mobility group nucleosomal binding domain 4

Supplemental Table 2: A detailed annotation of the signature piRNAs and their association with the Alzheimer's disease