

**Table S1** Aggregate demographics

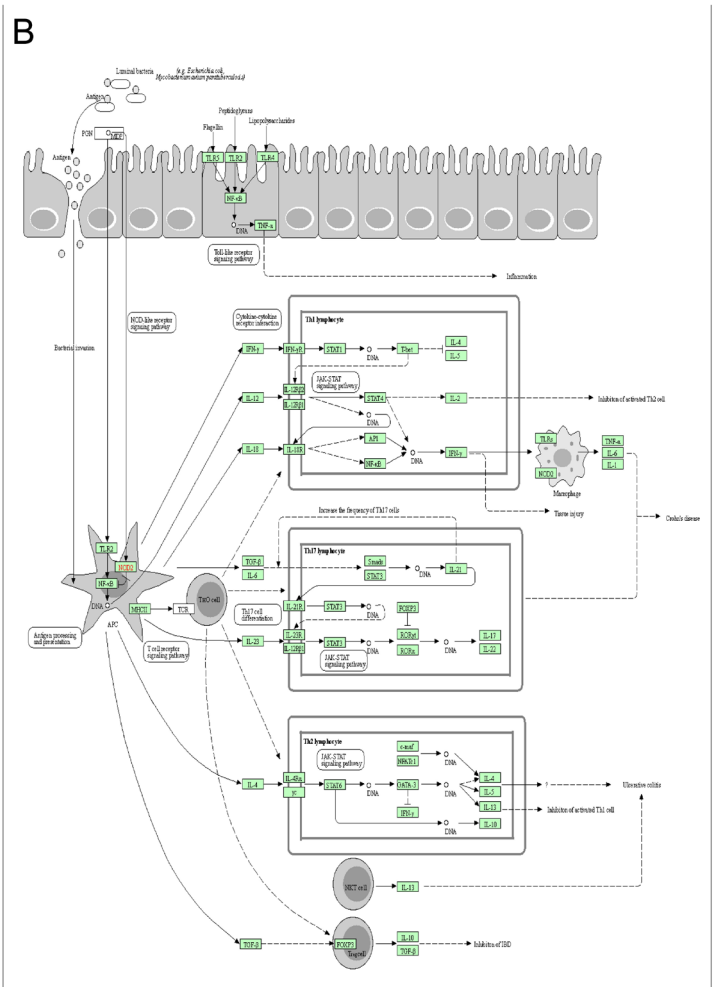
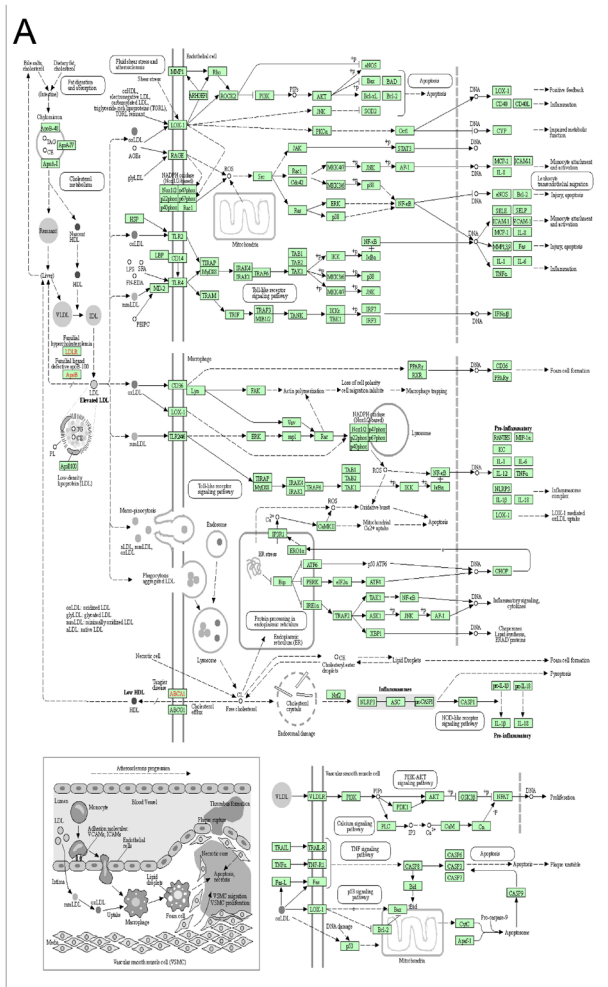
Clinical factors	Hippocampus tissue subset			PBMCs subset		
	Normal-aging sample	AD sample	adj.P.V	Normal-aging sample	AD sample	adj.P.V
Age (year)	81.95±9.12	83.63±8.19	0.75	74.02±6.32	74.62±6.73	0.19
Gender (F/M)	7/15	20/12	0.11	143/95	184/100	0.27

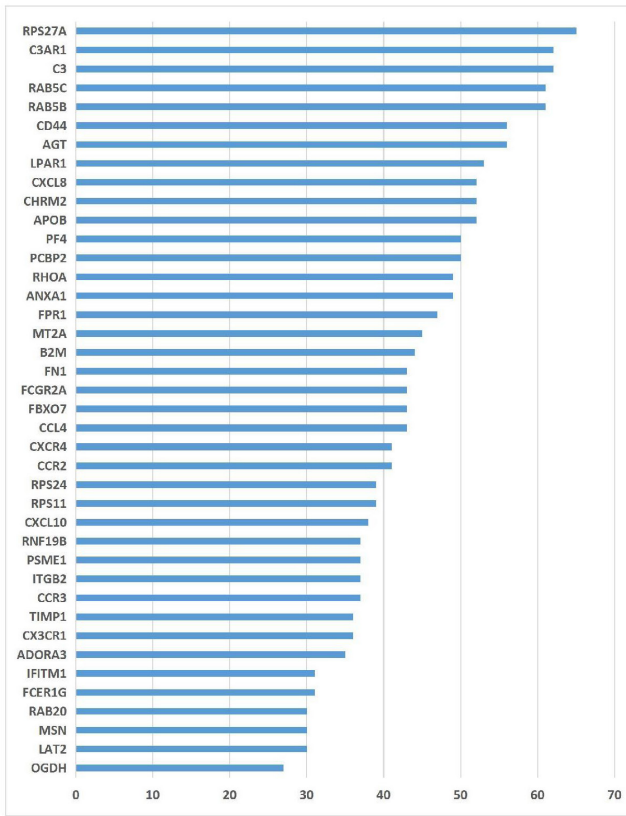
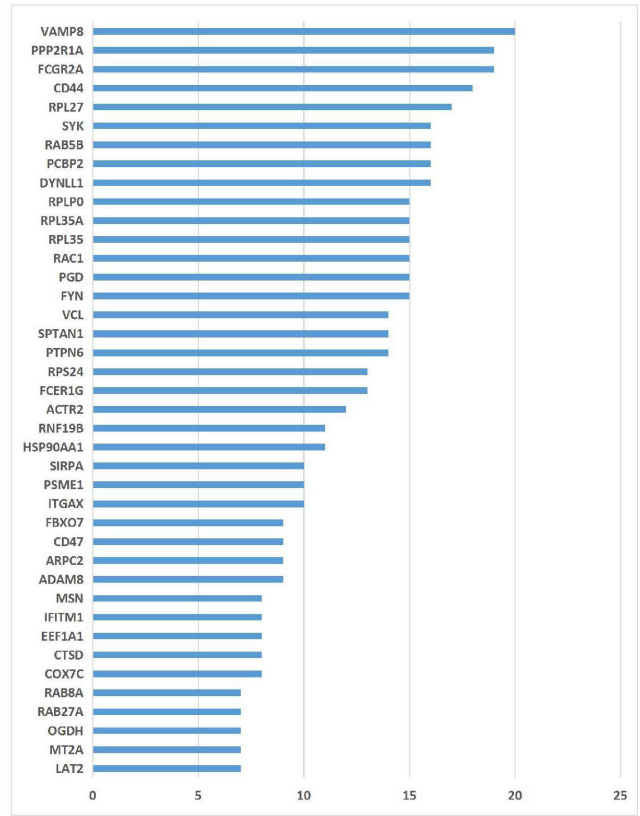
PBMCs, peripheral blood mononuclear cells; AD, Alzheimer's disease; adj.P.V, adjusted P value; F/M, female/male.

**Table S2** The intersection of differentially expressed mRNAs both in the hippocampal tissue and PBMCs subsets

Genes	Hippocampus tissue subset			PBMCs subset		
	logFC	AveExpr	adj.P.V	logFC	AveExpr	adj.P.V
<i>PCBP2</i>	-2.157742923	8.756046286	3.50E-09	-3.965449675	10.50021906	4.25E-274
<i>DRAP1</i>	-2.804162998	7.667614079	3.67E-09	-2.008593823	9.855112778	2.42E-251
<i>FBXO7</i>	-2.495573438	9.695486294	7.80E-09	-2.854018286	9.645257316	5.93E-194
<i>KLF13</i>	2.509947072	5.182725543	1.46E-08	-2.08603138	9.513846525	1.08E-240
<i>GRINA</i>	-2.712044899	8.767941259	1.60E-08	-2.190410698	9.456578201	2.76E-155
<i>RNF19B</i>	-3.246443675	6.550710249	1.88E-08	-2.156396538	8.468545389	7.73E-225
<i>FCER1G</i>	-3.690456518	7.894259009	1.97E-08	-2.196807045	9.401705487	1.44E-222
<i>RPS24</i>	-3.105341944	11.59430613	2.03E-08	-2.115607254	8.676340138	1.74E-99
<i>POGK</i>	-2.799570788	8.769718407	2.79E-08	-2.050167955	8.922346259	1.81E-254
<i>TEF</i>	2.135924292	5.767109286	2.93E-08	-2.615401924	7.529215964	7.14E-260
<i>AIF1</i>	-2.372450172	6.336726784	6.95E-08	-2.896363569	9.536721046	4.87E-222
<i>RAB5B</i>	-2.42643852	9.326119243	7.76E-08	-2.125303327	10.62490522	1.04E-236
<i>MSN</i>	-3.168395081	8.735672404	1.09E-07	-2.200166778	11.56857896	6.56E-213
<i>OGDH</i>	-2.806232572	7.642909919	1.26E-07	-2.448148917	7.572173138	6.46E-266
<i>CCNI</i>	-2.182047135	10.90291203	1.55E-07	-2.03949707	12.80834978	3.12E-226
<i>SH3BGR3</i>	-2.301213792	8.047451139	1.66E-07	-2.154741525	11.77411539	2.29E-215
<i>TAGLN2</i>	-2.496177924	7.119488366	1.85E-07	-2.055735736	10.88027041	6.95E-188
<i>PSME1</i>	-2.184813157	8.910356857	2.05E-07	-4.016574297	10.80419745	6.25E-277
<i>PGD</i>	-2.2737899	6.845323553	3.98E-07	-2.052847707	10.72744397	2.90E-190
<i>CD44</i>	-2.531618923	7.313031815	5.39E-07	-2.400502296	9.710477464	1.44E-261
<i>MT2A</i>	-2.325411507	12.761293	8.01E-07	-2.201718294	10.36600918	2.25E-171
<i>FCGR2A</i>	-2.790529135	6.603072332	8.39E-07	-2.0455743	11.48705693	2.69E-220
<i>JUNB</i>	-2.481506907	7.944586079	9.35E-07	-2.223655258	8.070347732	6.36E-235
<i>CD37</i>	-2.425974289	5.940013457	1.10E-06	-2.056959607	10.11301371	6.95E-228
<i>IFITM3</i>	2.239904674	9.939671914	4.28E-06	2.031312845	11.65868492	1.17E-199
<i>LAT2</i>	-2.119131991	6.970485988	1.11E-05	-2.333870067	8.917631893	1.08E-242
<i>CLDN15</i>	-2.153699313	7.175878259	2.55E-05	-2.378769403	7.64515328	6.06E-263
<i>KRT1</i>	-2.084373117	5.82958944	4.07E-05	-2.279645478	8.767687692	3.24E-98

PBMCs, peripheral blood mononuclear cells; FC, fold changes; AveExpr, average expression; adj.P.V, adjusted P value.



**A****B****Figure S2** xxxxxxxxx