

Supplementary Table 3. Associations of lipid classes with baseline A/T/N biomarkers

Lipid classes	A: Amyloid PET (AV45) uptake					T: CSF pTau					N1: Hippocampal volume					N2: FDG uptake				
	Beta	95% CI (Lower)	95% CI (Upper)	Pvalue	Pvalue(BH)	Beta	95% CI (Lower)	95% CI (Upper)	Pvalue	Pvalue(BH)	Beta	95% CI (Lower)	95% CI (Upper)	Pvalue	Pvalue(BH)	Beta	95% CI (Lower)	95% CI (Upper)	Pvalue	Pvalue(BH)
LPC(O)	0.121	0.053	0.189	0.001	0.024	0.056	-0.006	0.118	0.076	0.414	-0.033	-0.085	0.019	0.211	0.649	-0.111	-0.175	-0.047	0.001	0.011
LPC	0.119	0.047	0.192	0.001	0.030	0.064	-0.001	0.128	0.054	0.414	-0.012	-0.064	0.039	0.638	0.889	-0.055	-0.122	0.012	0.110	0.224
LPC(P)	0.096	0.027	0.165	0.006	0.047	0.049	-0.012	0.111	0.115	0.414	-0.009	-0.061	0.043	0.734	0.916	-0.080	-0.144	-0.017	0.013	0.071
LPE	0.104	0.030	0.178	0.006	0.047	0.060	-0.006	0.127	0.074	0.414	-0.044	-0.095	0.006	0.086	0.360	-0.070	-0.139	0.000	0.048	0.137
Hex2Cer	0.115	0.035	0.194	0.005	0.047	0.062	-0.009	0.132	0.085	0.414	-0.030	-0.082	0.022	0.254	0.649	-0.055	-0.129	0.019	0.146	0.269
DE	-0.127	-0.213	-0.041	0.004	0.047	-0.077	-0.153	-0.002	0.045	0.414	0.029	-0.026	0.084	0.299	0.687	0.055	-0.023	0.133	0.170	0.300
PE(O)	-0.095	-0.169	-0.022	0.011	0.073	-0.051	-0.117	0.014	0.126	0.414	0.064	0.014	0.113	0.012	0.094	0.014	-0.054	0.082	0.689	0.754
HexCer	0.089	0.015	0.163	0.018	0.106	0.024	-0.041	0.090	0.465	0.684	-0.016	-0.065	0.033	0.515	0.845	-0.018	-0.086	0.051	0.609	0.700
GM1	0.079	0.007	0.150	0.030	0.148	0.003	-0.059	0.065	0.921	0.935	-0.056	-0.103	-0.009	0.020	0.135	-0.085	-0.151	-0.020	0.011	0.071
PE(P)	-0.082	-0.158	-0.007	0.032	0.148	-0.031	-0.096	0.035	0.361	0.594	0.091	-0.040	0.142	0.001	0.008	0.022	-0.046	0.090	0.528	0.639
deDE	0.077	0.002	0.152	0.045	0.174	0.070	0.004	0.136	0.038	0.414	-0.149	-0.197	-0.102	0.000	0.000	-0.140	-0.208	-0.073	0.000	0.002
dhCer	-0.081	-0.160	-0.002	0.045	0.174	-0.038	-0.108	0.031	0.279	0.584	0.034	-0.018	0.086	0.199	0.649	0.007	-0.065	0.080	0.848	0.907
OxSpecies	0.064	-0.008	0.135	0.082	0.291	-0.010	-0.074	0.053	0.752	0.805	0.009	-0.040	0.058	0.725	0.916	-0.052	-0.117	0.013	0.117	0.224
GM3	0.058	-0.026	0.143	0.174	0.500	0.043	-0.032	0.117	0.262	0.574	-0.029	-0.091	0.033	0.355	0.743	-0.136	-0.213	-0.058	0.001	0.011
dimethyl-CE	-0.052	-0.126	0.022	0.167	0.500	-0.055	-0.122	0.011	0.105	0.414	0.082	0.032	0.131	0.001	0.014	0.083	0.015	0.151	0.017	0.078
TG(O) [NL]	-0.051	-0.123	0.020	0.157	0.500	-0.050	-0.114	0.014	0.125	0.414	0.119	0.070	0.169	0.000	0.000	0.017	-0.050	0.083	0.626	0.703
S1P	0.044	-0.022	0.110	0.194	0.525	0.071	0.012	0.130	0.018	0.414	-0.016	-0.062	0.030	0.497	0.845	-0.022	-0.083	0.040	0.490	0.633
methyl-DE	-0.045	-0.121	0.031	0.244	0.565	-0.019	-0.088	0.050	0.591	0.718	0.074	0.023	0.124	0.004	0.039	0.097	0.027	0.168	0.007	0.071
SHexCer	0.050	-0.034	0.134	0.246	0.565	-0.023	-0.097	0.051	0.543	0.718	0.003	-0.051	0.058	0.904	0.970	-0.069	-0.145	0.008	0.079	0.191
LPI	-0.042	-0.111	0.028	0.240	0.565	0.038	-0.023	0.098	0.224	0.531	0.004	-0.044	0.051	0.878	0.970	-0.030	-0.094	0.034	0.350	0.520
DG	-0.066	-0.193	0.061	0.309	0.592	-0.051	-0.158	0.055	0.343	0.585	-0.031	-0.114	0.052	0.465	0.822	-0.125	-0.235	-0.015	0.026	0.085
AC-OH	-0.035	-0.100	0.031	0.298	0.592	0.008	-0.050	0.067	0.781	0.817	-0.012	-0.056	0.032	0.590	0.876	-0.070	-0.130	-0.009	0.024	0.085
Cer(d)	0.042	-0.036	0.120	0.292	0.592	0.047	-0.023	0.117	0.184	0.498	-0.013	-0.066	0.040	0.638	0.889	-0.060	-0.132	0.013	0.105	0.224
SM	-0.052	-0.147	0.044	0.291	0.592	0.024	-0.060	0.107	0.577	0.718	0.073	0.006	0.140	0.032	0.164	-0.037	-0.126	0.052	0.414	0.577
COH	0.042	-0.045	0.129	0.344	0.633	-0.003	-0.077	0.071	0.935	0.935	0.007	-0.054	0.068	0.823	0.970	-0.100	-0.180	-0.020	0.014	0.071
Cer(m)	-0.040	-0.125	0.046	0.361	0.639	-0.026	-0.100	0.048	0.490	0.684	0.003	-0.053	0.059	0.925	0.970	-0.038	-0.115	0.039	0.337	0.517
PC(O)	0.032	-0.053	0.118	0.460	0.707	0.046	-0.028	0.120	0.220	0.531	0.033	-0.027	0.093	0.285	0.687	-0.081	-0.158	-0.004	0.040	0.124
FFA	-0.025	-0.093	0.042	0.461	0.707	-0.013	-0.073	0.048	0.683	0.786	0.000	-0.044	0.045	0.995	0.995	-0.058	-0.120	0.004	0.068	0.173
PIP1	0.027	-0.038	0.092	0.416	0.707	0.050	-0.008	0.108	0.093	0.414	0.012	-0.031	0.056	0.578	0.876	0.003	-0.057	0.063	0.930	0.972
LPE(P)	0.025	-0.042	0.092	0.458	0.707	0.016	-0.043	0.076	0.587	0.718	0.019	-0.028	0.066	0.424	0.780	0.001	-0.061	0.062	0.986	0.986
CE	0.037	-0.072	0.145	0.510	0.711	0.067	-0.026	0.160	0.156	0.447	-0.012	-0.086	0.063	0.757	0.916	-0.123	-0.221	-0.025	0.014	0.071
PC	0.035	-0.067	0.136	0.504	0.711	0.078	-0.009	0.165	0.077	0.414	-0.022	-0.095	0.050	0.547	0.867	-0.108	-0.199	-0.017	0.020	0.085
Sph	0.022	-0.041	0.086	0.494	0.711	-0.023	-0.079	0.034	0.435	0.667	0.007	-0.036	0.050	0.746	0.916	0.020	-0.039	0.079	0.509	0.633
Ubiquinone	-0.020	-0.087	0.046	0.548	0.741	0.021	-0.038	0.080	0.490	0.684	-0.005	-0.051	0.041	0.845	0.970	-0.002	-0.063	0.060	0.960	0.982
PA	0.019	-0.053	0.092	0.602	0.785	-0.010	-0.074	0.053	0.751	0.805	0.024	-0.023	0.070	0.317	0.693	0.057	-0.009	0.123	0.089	0.204
PI	-0.022	-0.107	0.063	0.614	0.785	0.063	-0.013	0.139	0.103	0.414	-0.002	-0.061	0.057	0.952	0.973	-0.064	-0.143	0.015	0.112	0.224
BA	-0.014	-0.078	0.051	0.671	0.835	0.030	-0.028	0.087	0.311	0.585	0.025	-0.018	0.068	0.252	0.649	0.020	-0.039	0.080	0.505	0.633
methyl-CE	-0.012	-0.086	0.061	0.745	0.865	-0.012	-0.078	0.055	0.735	0.805	0.055	0.005	0.104	0.031	0.164	0.034	-0.034	0.103	0.327	0.517
C1P	0.014	-0.072	0.100	0.752	0.865	0.037	-0.039	0.113	0.343	0.585	0.003	-0.054	0.059	0.928	0.970	-0.039	-0.116	0.038	0.324	0.517
PS	0.012	-0.052	0.076	0.721	0.865	0.025	-0.032	0.082	0.391	0.621	-0.009	-0.051	0.033	0.686	0.916	0.017	-0.042	0.076	0.567	0.668
PE	-0.013	-0.102	0.077	0.783	0.878	0.044	-0.038	0.125	0.292	0.584	-0.039	-0.101	0.023	0.219	0.649	-0.053	-0.137	0.030	0.210	0.358
TG [NL]	-0.013	-0.117	0.092	0.810	0.887	0.070	-0.025	0.164	0.148	0.447	-0.053	-0.128	0.022	0.169	0.649	-0.116	-0.216	-0.016	0.024	0.085
Hex3Cer	-0.008	-0.100	0.083	0.861	0.922	0.022	-0.059	0.103	0.593	0.718	-0.026	-0.089	0.037	0.416	0.780	-0.113	-0.195	-0.030	0.008	0.071
AC	0.003	-0.063	0.070	0.924	0.945	0.029	-0.031	0.089	0.340	0.585	-0.019	-0.064	0.025	0.390	0.780	-0.062	-0.124	0.000	0.051	0.137
PG	-0.005	-0.109	0.099	0.922	0.945	-0.057	-0.149	0.036	0.231	0.531	-0.042	-0.111	0.027	0.236	0.649	-0.037	-0.131	0.058	0.447	0.604
PC(P)	0.001	-0.089	0.091	0.981	0.981	0.016	-0.060	0.093	0.673	0.786	0.054	-0.005	0.114	0.074	0.340	-0.037	-0.116	0.042	0.364	0.523