

Table S7. Spearman's rank order correlation between AD-related markers and CSF lipid mediators. Analysis performed utilizing 151 AD patients and 142 healthy controls. Only associations with the $p > 0.05$ are displayed. Associations colored based on Spearman's ρ (values shown in the table), with blue color for negative and orange for positive associations.

Variable	Spearman's ρ						color
	log(t-Tau/AB42)	AB42	pTau	pTau/tTau	tTau	MoCA	
9(10)/12(13)-EpOME	-0.232	0.195	-0.13	0.147	-0.218	0.176	0.1 to 0.2
9(10)-EpOME	0.259	-0.242	0.144		0.213	-0.19	0.2 to 0.3
12(13)-EpOME	0.303	-0.285	0.169		0.249	-0.217	0.3 to 0.4
AA	-0.263	0.258	-0.186		-0.19	0.234	> 0.4
EPA	-0.266	0.253	-0.167		-0.19	0.215	-0.1 to -0.2
LA	-0.289	0.233	-0.226		-0.276	0.258	-0.2 to -0.3
OEA	-0.328	0.308	-0.222		-0.283	0.329	-0.3 to -0.4
OEA/LEA	-0.382	0.346	-0.254	0.136	-0.335	0.343	< -0.4
Sum(EpOMEs)	0.283	-0.268	0.155		0.231	-0.206	0.1 to 0.2
Sum(LA Cyp+sEH)	0.284	-0.273	0.157		0.23	-0.218	0.2 to 0.3
F2-IsoP	0.2		0.146	-0.157	0.242	-0.12	0.3 to 0.4
9_10-DiHOME	0.185	-0.221				-0.19	> 0.4
GCDCA/GLCA	-0.176	0.161				0.174	-0.1 to -0.2
Sum(DiHOMEs)	0.169	-0.2				-0.189	-0.2 to -0.3
LEA	0.166		0.154		0.17	-0.119	-0.3 to -0.4
14_15-DiHETE	-0.162	0.2			-0.119		< -0.4
DHA	-0.157	0.193				0.151	0.1 to 0.2
11,12/14,15-DiHETrE	-0.153		-0.179		-0.154	0.159	0.2 to 0.3
14,15/11,12-DiHETrE	0.153		0.179		0.154	-0.159	0.3 to 0.4
12_13-DiHOME	0.152	-0.175				-0.178	> 0.4
ALA	-0.145	0.122	-0.125		-0.123	0.154	-0.1 to -0.2
(GDCA+GLCA)/(TDCA)	0.143				0.137	-0.163	-0.2 to -0.3
T-a-MCA	0.142	-0.181				-0.142	-0.3 to -0.4
GCDCA/GDCA	-0.136						< -0.4
TDCA/GDCA	-0.132				-0.137	0.146	0.1 to 0.2
GLCA	0.132	-0.166				-0.154	0.2 to 0.3
TCDCA/CDCA	-0.126				-0.138	0.177	0.3 to 0.4
12,13-DiHOME/EpOME	-0.124				-0.12		> 0.4
PGF2a	-0.123	0.16					-0.1 to -0.2
11-Deoxy-CTRL	0.121	-0.12	0.119			-0.135	-0.2 to -0.3
DCA	0.121					-0.13	-0.3 to -0.4
UDCA	0.12			-0.167	0.16		< -0.4
GCA/GCDCA	0.117						0.1 to 0.2
CRTL				-0.185			0.2 to 0.3
(TDCA+TCDCA)/(GDCA+GCDCA)					-0.127	0.123	0.3 to 0.4

Continuation of the Table S7

Variable	log(t-Tau/AB42)	AB42	pTau	pTau/tTau	tTau	MoCA
UDCA/CDCA				-0.162	0.144	
CRTN						-0.151
TCDCA/GCDCA					-0.136	0.119
13-HOTE						
20-HETE						
(TCDCA+GCDCA)/CDCA					-0.115	0.165
TCDCA					-0.118	
GDCA						
GCDCA/CDCA						0.161
14,15/17,18-DiHETE	0.135					
EPA + DHA diols						
w-MCA						
TCA						
11_12-DiHETrE						
TDCA/DCA						0.124
TDCA/DCA 2						0.124
T-a-MCA/CDCA						
(TUDAC+GUDCA)/UDCA						
GUDCA/UDCA						
GLCA/CDCA						
Sum(DiHOME)/Sum(EpOME)						
15_16-DiHODE						
TEST						-0.148
17_18-DiHETE						
9,10/12,13-DiHOME						
TUDCA/UDCA						
(GDCA+TDCA)/(TLCA+GLCA)						
GCA/GDCA						
TUDCA						
GUDCA				-0.125		
CRCTN						
9-HOTE						
DCA/(LCA+UDCA)				0.126		
GCDCA						
CDCA						
GDCA/GLCA						
GCA						
(TDCA+GDCA)/DCA						
DHEA/LEA				-0.144		

Continuation of the Table S7

Variable	log(t-Tau/AB42)	AB42	pTau	pTau/tTau	tTau	MoCA
w-MCA/UDCA						
19_20-DiHDoPE						
GDCA/DCA						
17OH-PROG						
a-MCA						
13-HODE						
9-HODE						
14_15-DiHETrE						
(GDCA+TDCA)/(TUDCA+GUDCA)						
9,10-DiHOME/EpOME						
DHEA				-0.163		
TDCA						
w-MCA/T-a-MCA						