

Lipids Uniquely Alter the Secondary Structure and Toxicity of Amyloid beta 1-42 Aggregates

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Table S1. One-way ANOVA of significant differences for all testing groups. Tukey's HSD Post Hoc was performed for multiple comparison procedures and the statistical test, showed the following difference between tested groups:

Group A	Group B	P-value							
		3 h		22 h		48 h		5d	
Ab	Ab:PC	4.58E-02	*	2.47E-02	*	4.86E-01	NS	3.51E-02	*
Ab	Ab:CL	1.31E-04	***	6.82E-04	***	4.45E-03	**	6.02E-01	NS
Ab	Ab:Chol:PC (1:0.0PC:0.9PC)	6.17E-07	****	6.43E-06	****	4.69E-02	*	1.31E-01	NS
Ab	PC	1.32E-04	***	3.92E-05	****	1.63E-04	***	1.69E-07	****
Ab	CL	6.52E-04	***	5.68E-05	****	6.46E-05	****	2.05E-07	****
Ab	Chol:PC (0.05:0.95)	1.50E-03	**	1.91E-04	***	3.89E-04	***	3.43E-07	****
Ab	Contr	1.86E-04	***	2.01E-05	****	8.64E-05	****	5.27E-07	****
Ab:PC	Ab:CL	9.88E-02	NS	5.92E-01	NS	2.01E-01	NS	6.26E-01	NS
Ab:PC	Ab:Chol:PC (1:0.0PC:0.9PC)	1.54E-04	***	5.76E-03	**	8.20E-01	NS	9.95E-01	NS
Ab:PC	PC	5.46E-07	****	1.41E-07	****	5.46E-06	****	2.54E-09	****
Ab:PC	CL	1.89E-06	****	1.86E-07	****	2.46E-06	****	2.97E-09	****
Ab:PC	Chol:PC (0.05:0.95)	3.63E-06	****	4.66E-07	****	1.16E-05	****	4.47E-09	****
Ab:PC	Contr	7.13E-07	****	8.49E-08	****	3.16E-06	****	6.29E-09	****
Ab:CL	Ab:Chol:PC (1:0.0PC:0.9PC)	5.44E-02	NS	1.86E-01	NS	9.15E-01	NS	9.52E-01	NS
Ab:CL	PC	1.20E-08	****	1.50E-08	****	1.30E-07	****	1.81E-08	****
Ab:CL	CL	3.28E-08	****	1.93E-08	****	6.74E-08	****	2.14E-08	****
Ab:CL	Chol:PC (0.05:0.95)	5.55E-08	****	4.34E-08	****	2.42E-07	****	3.37E-08	****
Ab:CL	Contr	1.49E-08	****	9.60E-09	****	8.28E-08	****	4.93E-08	****
Ab:Chol:PC (1:0.0PC:0.9PC)	PC	3.59E-10	****	8.59E-10	****	6.55E-07	****	5.45E-09	****
Ab:Chol:PC (1:0.0PC:0.9PC)	CL	8.40E-10	****	1.07E-09	****	3.20E-07	****	6.39E-09	****
Ab:Chol:PC (1:0.0PC:0.9PC)	Chol:PC (0.05:0.95)	1.30E-09	****	2.14E-09	****	1.29E-06	****	9.79E-09	****
Ab:Chol:PC (1:0.0PC:0.9PC)	Contr	4.32E-10	****	5.80E-10	****	4.00E-07	****	1.40E-08	****
PC	CL	9.84E-01	NS	1.00E+00	NS	9.99E-01	NS	1.00E+00	NS
PC	Chol:PC (0.05:0.95)	8.80E-01	NS	9.81E-01	NS	1.00E+00	NS	9.99E-01	NS
PC	Contr	1.00E+00	NS	1.00E+00	NS	1.00E+00	NS	9.86E-01	NS
CL	Chol:PC (0.05:0.95)	1.00E+00	NS	9.96E-01	NS	9.67E-01	NS	1.00E+00	NS
CL	Contr	9.96E-01	NS	9.98E-01	NS	1.00E+00	NS	9.95E-01	NS
Chol:PC (0.05:0.95)	Contr	9.42E-01	NS	8.82E-01	NS	9.88E-01	NS	1.00E+00	NS

Table S2. One-way ANOVA of significant differences for all testing groups of A β fibrils. Tukey's HSD Post Hoc was performed for multiple comparison procedures and the statistical test, showed the following difference between tested groups:

	Group A	Group B	P-value			
			22 h		48 h	
Anti-parallel β -sheet	Ab	Ab:PC	2.64E-04	***	3.20E-09	****
	Ab	Ab:Chol:PC (1:0.05:0.95)	-	-	5.49E-07	****
	Ab	Ab:CL	-	-	3.20E-09	****
	Ab:PC	Ab:Chol:PC (1:0.05:0.95)	-	-	4.10E-06	****
	Ab:PC	Ab:CL	-	-	1.00E+00	NS
	Ab:Chol:PC (1:0.05:0.95)	Ab:CL	-	-	4.10E-06	****
Unordered	Ab	Ab:PC	1.21E-04	***	1.45E-14	****
	Ab	Ab:Chol:PC (1:0.05:0.95)	-	-	9.11E-10	****
	Ab	Ab:CL	-	-	4.35E-05	****
	Ab:PC	Ab:Chol:PC (1:0.05:0.95)	-	-	2.22E-08	****
	Ab:PC	Ab:CL	-	-	1.76E-12	****
	Ab:Chol:PC (1:0.05:0.95)	Ab:CL	-	-	3.10E-08	****
Parallel β -sheet	Ab	Ab:PC	3.15E-06	****	2.53E-08	****
	Ab	Ab:Chol:PC (1:0.05:0.95)	-	-	2.23E-06	****
	Ab	Ab:CL	-	-	5.41E-07	****
	Ab:PC	Ab:Chol:PC (1:0.05:0.95)	-	-	2.67E-05	****
	Ab:PC	Ab:CL	-	-	4.14E-11	****
	Ab:Chol:PC (1:0.05:0.95)	Ab:CL	-	-	2.14E-09	****

Table S3. One-way ANOVA of significant differences for all testing groups of samples accordingly to LDH test. Tukey's HSD Post Hoc was performed for multiple comparison procedures and the statistical test, showed the following difference between tested groups:

	Group A	Group B	P-value							
			3 h		22 h		48 h		5 d	
Antiparallel β-sheet	Ab	Ab:PC	1.09E-03	**	3.46E-05	****	1.48E-07	****	7.80E-06	****
	Ab	Ab:Chol:PC (1:0.05:0.95)	2.68E-04	***	6.56E-09	****	1.34E-07	****	2.33E-01	NS
	Ab	Ab:CL	8.31E-02	NS	1.68E-06	****	4.17E-02	*	4.79E-04	***
	Ab:PC	Ab:Chol:PC (1:0.05:0.95)	5.22E-01	NS	3.11E-07	****	7.08E-11	****	2.34E-06	****
	Ab:PC	Ab:CL	3.68E-02	*	4.92E-03	**	6.23E-07	****	3.10E-03	**
	Ab:Chol:PC (1:0.05:0.95)	Ab:CL	5.61E-03	**	3.50E-06	****	3.72E-08	****	7.51E-05	****
Unordered	Ab	Ab:PC	2.92E-03	**	4.27E-05	****	1.28E-09	****	9.74E-05	****
	Ab	Ab:Chol:PC (1:0.05:0.95)	3.30E-08	****	1.31E-05	****	9.87E-08	****	2.75E-05	****
	Ab	Ab:CL	1.35E-06	****	8.97E-04	****	3.45E-02	*	3.68E-03	**
	Ab:PC	Ab:Chol:PC (1:0.05:0.95)	4.79E-09	****	3.85E-01	NS	1.01E-05	****	2.38E-07	****
	Ab:PC	Ab:CL	1.23E-07	****	3.56E-02	*	3.61E-10	****	3.01E-06	****
	Ab:Chol:PC (1:0.05:0.95)	Ab:CL	9.82E-05	****	3.91E-03	**	2.67E-08	****	3.20E-03	**
Parallel-β- sheet	Ab	Ab:PC	1.09E-03	**	3.06E-07	****	7.80E-06	****	3.08E-07	****
	Ab	Ab:Chol:PC (1:0.05:0.95)	2.68E-04	***	2.90E-10	****	4.50E-10	****	1.83E-05	****
	Ab	Ab:CL	8.31E-02	NS	1.56E-07	****	1.94E-04	***	5.30E-01	NS
	Ab:PC	Ab:Chol:PC (1:0.05:0.95)	5.22E-01	NS	2.99E-07	****	3.87E-08	****	4.72E-09	****
	Ab:PC	Ab:CL	3.68E-02	*	4.23E-01	NS	1.51E-07	****	5.75E-07	****
	Ab:Chol:PC (1:0.05:0.95)	Ab:CL	5.61E-03	**	6.15E-07	****	1.98E-11	****	7.38E-06	****

Table S4. One-way ANOVA of significant differences for all testing groups of A β oligomers. Tukey's HSD Post Hoc was performed for multiple comparison procedures and the statistical test, showed the following difference between tested groups:

Group A	Group B	P-value							
		3 h		22 h		48 h		5 d	
Ab	Ab:PC	5.39E-01	NS	2.99E-07	****	1.69E-09	****	9.71E-07	****
Ab	Ab:Chol:PC (1:0.05:0.95)	2.28E-07	****	8.52E-08	****	1.04E-04	***	3.01E-01	NS
Ab	Ab:CL	1.30E-09	****	1.18E-10	****	1.69E-10	****	1.90E-05	****
Ab:PC	Ab:Chol:PC (1:0.05:0.95)	4.15E-07	****	5.93E-02	NS	6.41E-11	****	2.57E-06	****
Ab:PC	Ab:CL	2.13E-09	****	1.15E-07	****	1.08E-03	**	1.17E-08	****
Ab:Chol:PC (1:0.05:0.95)	Ab:CL	3.05E-06	****	4.18E-07	****	4.82E-12	****	5.68E-06	****