

Figure S1. Chemical structure of resveratrol (A), piceid (B), galocatechin gallate (C) and theaflavin (D).

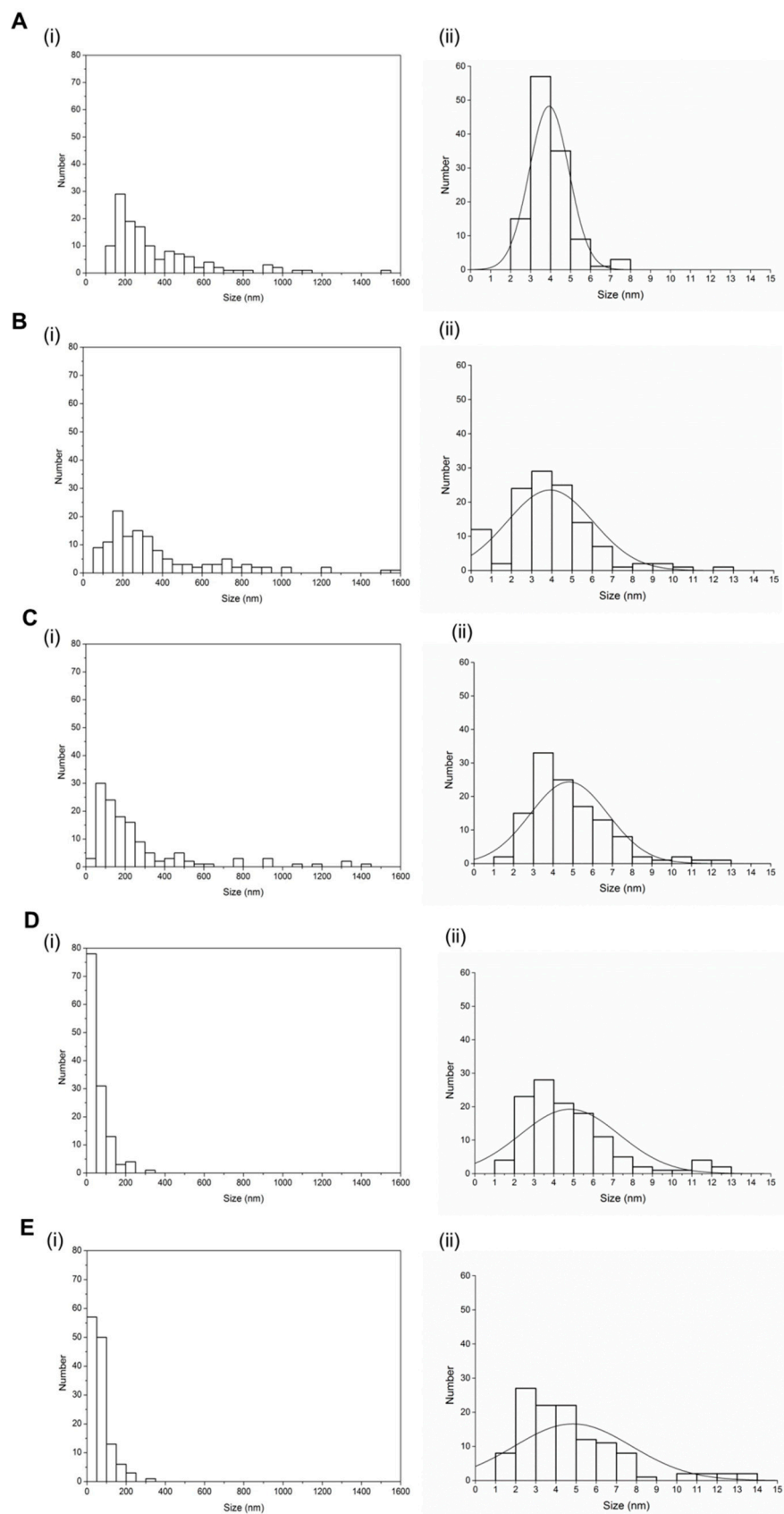


Figure S2. (i) Length and (ii) height distribution of A β ₄₂ aggregates obtained from 24 h incubation (A) without polyphenols and with (B) resveratrol, (C) piceid, (D) gallic acid and (E) theaflavin. A β ₄₂ was incubated at 80 μ M in Tris buffer (20 mM, pH 7.4). The samples were using atomic force microscopy (AFM) in a dynamic force mode. All AFM operations were performed in an

automated moisture control box with 30–40% humidity at room temperature. The length and height of A β ₄₂ aggregates were analysed using Image J and SPI software, respectively.

Table S1. The current detected for peak potentials of polyphenol (80 μ M) solutions incubated at 37 °C for 0 h, 12 h and 24 h.

Compounds	Current (μ A)													
	0 h						12 h				24 h			
	1	2	3	4	5	6	7	1	2	3	4	1	2	3
GCG						0.7		0.65			0.44	0.5		
Theaflavin	1.86	0.54		1	1.04	0.97	1.43	0.97		0.49	0.77	0.64	0.45	0.72
Resveratrol	1.43	0.75	1.05			1.43		1.13		0.59	0.83	0.45	0.38	0.62
Picied		0.53				1.15			0.65	0.65	1.46		0.61	1.18
A β -42						0.29								

Table S2. The current detected for peak potentials of polyphenol (80 μ M) solutions incubated with A β ₄₂ at 37 °C for 0 h, 12 h and 24 h.

Polyphenols	Current (μ A)												
	0 h				12 h				24 h				
	1	2	3	4	1	2	3	4	1	2	3	4	
GCG	0.28		0.45		0.38				0.33				
Theaflavin	0.64		0.49	0.99	0.28		0.24	0.34		0.26	0.3		
Resveratrol		0.61	0.77				0.36	0.59			0.36		
Picied		0.42	0.64			0.53	0.58	1.3		0.47			0.93