Additional file 7: Statistical analyses of Aβ data presented in Figure 1 and additional file 2.

ns = not significant, TG = Tga20.

Test	Comparison	Aβ1-40	Aβ1-42	Aβ4-42	Aβ3[pE]-42
Neurosphere volume - Fig 1B 2-way ANOVA, F = 53.75, p < 0.001, n = 4	KO Aβ vs buffer	P < 0.05	P < 0.05	ns	P < 0.001
	WT Aβ vs buffer	P < 0.01	P < 0.05	P < 0.05	ns
	KO vs WT	P < 0.001	P < 0.001	P < 0.01	P < 0.001
	TG Aβ vs Buffer	ns	ns	ns	P < 0.05
	KO vs TG	P < 0.001	P < 0.001	P < 0.05	P < 0.001
	WT vs TG	Ns	ns	ns	ns
Neurosphere diameter - Fig 1C 2-way ANOVA, F = 63.43, p < 0.001, n = 4	KO Aβ vs buffer	ns	P < 0.05	ns	P < 0.01
	WT Aβ vs buffer	P < 0.01	P < 0.001	P < 0.01	P < 0.05
	KO vs WT	P < 0.001	P < 0.001	P < 0.01	P < 0.001
	TG Aβ vs Buffer	P < 0.001	P < 0.001	P < 0.001	P < 0.001
	KO vs TG	P < 0.001	P < 0.001	P < 0.001	P < 0.001
	WT vs TG	Ns	ns	ns	ns
Neurosphere colonies - Fig 1D 2-way ANOVA, F = 9.647, p < 0.001, n = 4	KO Aβ vs buffer	ns	ns	ns	P < 0.05
	WT Aβ vs buffer	ns	P < 0.05	ns	ns
	KO vs WT	ns	ns	ns	ns
	TG Aβ vs Buffer	P < 0.05	P < 0.001	P < 0.001	P < 0.05
	KO vs TG	ns	ns	P < 0.001	P < 0.05
	WT vs TG	ns	ns	P < 0.01	ns
Cell cycle G0/G1 phase - Fig 1F 2-way ANOVA, F = 22.99, p = 0.003, n = 4	KO Aβ vs buffer	--	P < 0.05	--	--
	WT Aβ vs buffer	--	ns	--	--
	KO vs WT	--	P < 0.05	--	--
Cell cycle S phase - Fig 1F 2-way ANOVA, F = 39.18, p = 0.0033, n = 4	KO Aβ vs buffer	--	ns	--	--
	WT Aβ vs buffer	--	ns	--	--
	KO vs WT	--	P < 0.01	--	--

Cell cycle G2/M phase - Fig 1F 2-way ANOVA, F = 24.91, p = 0.0025, n = 4	KO Aβ vs buffer	--	P < 0.05	--	--
	WT Aβ vs buffer	--	ns	--	--
	KO vs WT	--	P < 0.01	--	--

Test	Comparison	Result
Neurosphere volume 2-way ANOVA, F = 7.48, p = 0.006, n = 4	KO vs WT (untreated)	P < 0.05
	KO vs TG (untreated)	P < 0.05
	WT vs TG (untreated)	ns
	KO untreated vs buffer	ns
	WT untreated vs buffer	ns
	TG untreated vs buffer	ns
Neurosphere diameter 2-way ANOVA, F = 10.01, p = 0.003, n = 4	KO vs WT (untreated)	P < 0.05
	KO vs TG (untreated)	ns
	WT vs TG (untreated)	ns
	KO untreated vs buffer	ns
	WT untreated vs buffer	ns
	TG untreated vs buffer	ns
Neurosphere colonies 2-way ANOVA, F = 22.13, p < 0.001, n = 4	KO vs WT (untreated)	P < 0.01
	KO vs TG (untreated)	ns
	WT vs TG (untreated)	P <0.001
	KO untreated vs buffer	ns
	WT untreated vs buffer	ns
	TG untreated vs buffer	ns