

Table 2. BioPan pathway analysis in male TDP-43^{A315T} mice at asymptomatic, onset and end stage.

Asymptomatic	Lipid subclass active pathway (Tg vs WT)			
	Pathways	Classification (s) of the pathways	Z-score	Predicted genes
	PE(34:1)→PC(34:1)	Biosynthesis of PC (Glycerolipids and Glycerophospholipids)	2.3	<i>PEMT</i>
	Lipid subclass suppressed pathway (Tg vs WT)			
	Pathways	Classification (s) of the pathways	Z-score	Predicted genes
	FA(20:4)→FA(22:4)	undefined	3.589	<i>ELOVL5, ELOVL2</i>
Onset	FA(20:1)→FA(22:1)	undefined	1.924	<i>ELOVL3</i>
	Lipid subclass active pathway (Tg vs WT)			
	Pathways	Classification (s) of the pathways	Z-score	Predicted genes
	PS(36:4)→PE(36:4)	Biosynthesis of PE (Glycerolipids and Glycerophospholipids)	2.105	<i>PISD</i>
	PE(34:3)→PC(34:4)	Biosynthesis of PC (Glycerolipids and Glycerophospholipids)	1.914	<i>PEMT</i>
	PE(34:1)→PC(34:1)	Biosynthesis of PC (Glycerolipids and Glycerophospholipids)	1.897	<i>PEMT</i>
	PS(34:0)→PE(34:0)	Biosynthesis of PE (Glycerolipids and Glycerophospholipids)	1.645	<i>PISD</i>
	Lipid subclass suppressed pathway (Tg vs WT)			
	Pathways	Classification (s) of the pathways	Z-score	Predicted genes
End	FA(16:1)→FA(18:1)→FA(18:2)→FA(20:2)→FA(20:3)→FA(20:4)→FA(22:4)	undefined	1.873	<i>ELOVL5, ELOVL6, FADS2, FADS1, ELOVL2</i>
	FA(16:1)→FA(18:1)→FA(18:2)→FA(20:2)→FA(20:3)→FA(20:4)→FA(20:5)→FA(22:5)	undefined	1.861	<i>ELOVL5, ELOVL6, FADS2, FADS1, ELOVL2</i>
	Lipid subclass active pathway (Tg vs WT)			
	Pathways	Classification (s) of the pathways	Z-score	Predicted genes
End	PE(38:5)→PC(38:5)	Biosynthesis of PC (Glycerolipids and Glycerophospholipids)	1.672	<i>PEMT</i>
	Lipid subclass suppressed pathway (Tg vs WT)			
	Pathways	Classification (s) of the pathways	Z-score	Predicted genes
	FA(18:0)→FA(20:0)	undefined	1.697	<i>ELOVL1, ELOVL7, ELOVL3</i>