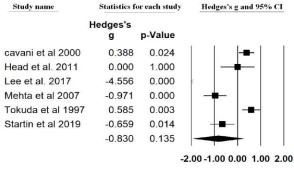
SUPPLEMENTARY FIGURE





Decreased in DS Increased in DS

-2.00-1.000.00 1.00 2.00

Decreased in DSD

Blood Aβ₁₋₄₂ between DSD and DS Statistics for each study Study name Hedges's g and 95% CI Point p-Value Coppus et al. 2012 0.173 0.209 Fortea et al 2018 0.192 0.139 Head et al. 2011 0.149 0.231 Iulita et al. 2016 0.154 0.205 Jones et al. 2009 0.163 0.190 Lee et al. 2017 0.070 0.500 Matsuoka et al 2009 0.160 0.216 Prasher et al 2010 0.177 0.164 Schupf et al 2001 0.090 0.415 Schupf et al 2010 0.214 0.033 Schupf et al 2007 0.133 0.288 0.151 0.190 -1.00-0.500.00 0.50 1.00 Decreased in DSD

C

Study name	Statistics for each study		Hedges's g and 95% CI
	Point	p-Value	
Coppus et al. 2012	-0.005	0.971	+
Fortea et al 2018	-0.007	0.964	 •
Head et al. 2011	0.022	0.874	+
lulita et al. 2016	0.017	0.900	-
Jones et al. 2009	0.029	0.831	+
Lee et al. 2017	0.158	0.058	
Matsuoka et al 2009	0.050	0.724	-
Prasher et al 2010	0.032	0.824	+
Schupf et al 2001	-0.007	0.959	- - - -
Schupf et al 2010	-0.012	0.931	+
Schupf et al 2007	0.066	0.628	🛊
	0.034	0.790	•

Blood Aß1-40 between DSD and DS

The ratio of blood $A\beta_{1\text{--}42}/\,A\beta_{1\text{--}40}$ between DSD and DS

Increased in DSD

Study name	Statistics for each study		Hedges's g and 95% CI	
	Hedges's g	p-Value		
Coppus et al. 2012	0.000	1.000	[] # []	
Head et al. 2011	-0.064	0.788	-	
Lee et al. 2017	1.341	0.000		
Prasher et al 2010	-0.099	0.594	-	
Schupf et al 2010	-0.756	0.000		
	0.029	0.907	🔷	
		-	2.00 -1.00 0.00 1.00 2.00	
			Decreased in DSD Increased in DSD	

Supplementary Figure 1. The ratio of blood Ap1-42/ Ap1-40 between (A) DS patients and HC subjects and (D) DSD and DS patients. Sensitivity analysis for (B) blood Ap₁₋₄₂ levels and (C) blood Ap₁₋₄₂ levels between DSD and DS patients. DS, Down syndrome. DSD, Down syndrome with dementia. HC, healthy control. CI, confidence interval.

В

D