

**Fig. S1.** Outline of the experimental design.

(a)



 

(c)

(b)

(e)

(d)



**Fig. S2.** Correlation between the lipid profile and faecal microbiota of dams fed a dyslipidaemic diet (DLP) (a) and that of their respective offspring (b-e) at 30 days of age. Pearson correlation test, in which the correlations were classified as low (r2 = 0.10 to 0.29), moderate (r2 = 0.30 to 0.49), significant (r2 = 0.5 to 0.69) or very high (r2 > 0.70). HDL= high-density lipoprotein, VLDL= very low-density lipoprotein, TG= triglycerides.