Supplementary data

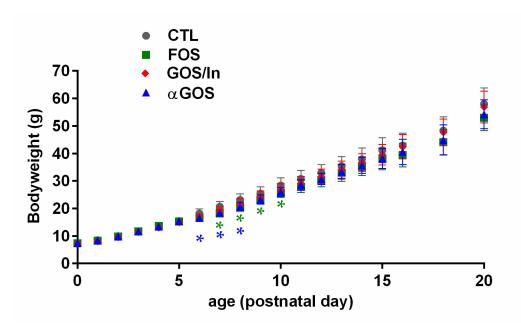


Figure S1. Postnatal growth of suckling rats in the different groups of OS supplementation. Data are means +/- SD collected from the total effective of rats (n = 15–16 per group from PND0 to PND14 then n = 8 per group). Asterisks indicate significant difference compared with CTL, their color refers to the treatment received between PND 5-14/15.

Table S1. Primer sequences

Table 51. I filler sequences.									
Target	Forward Primer	Reverse Primer	Accession Number						
β–actin	CTATCGGCAATGAGCGGTTCC	GCACTGTGTTGGCATAGAGGTC	NM_031144						
Atoh1	TGTTAGCAACG TGTGACTTC	CAGACCAGAGACAGAGAT ACG	NM_001109238						
Gcg	CTAATGCTGGTACAAGGCAG	GTGAATGTGCCCTGTGAATG	NM_012707						
Neurod1	CACGCAGAAGGCAAGGTGTC	TGGTCATGTTTCCACTTCCTGT	NM_019218						
Foxa1	GTTCCGCACAGGGTTGGATA	CTGACCGGGACAGAGGAGTA	NM_012742						
Neurog3	Not available	Not available	NM_021700						
Pax4	CCCAAGGGTATTGGGGGAAG	GGATACACTGGGAGCCTTGTC	NM_031799						
Pax6	ATACCTACACCCCTCCGCAC	TGAGTCCTGTTGAAGTGGTTCC	NM_013001						
PYY	AGCGGTATGGGAAAAGAGAAGTC	ACCACTGGTCCACACCTTCTG	NM_001034080						

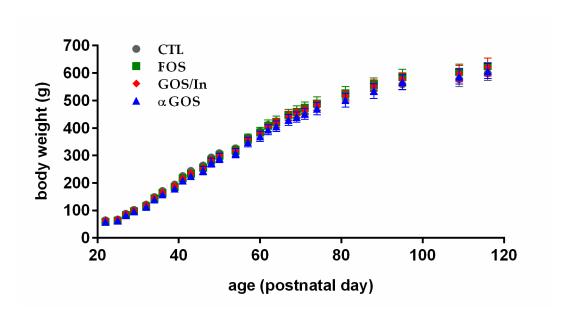


Figure S2. Growth of weaned rats until adulthood. Data are means \pm Por group).

Table S2. Concentration of SCFA in ileal and cecal contents at PND 124/126.

	Ileal Concentrations (mM)			Ceco-Colonic Concentrations (mM)			
Treatment	Acetate	Propionate	Butyrate	Acetate	Propionate	Butyrate	Minors
CTL	2.1 ± 1.0	0.1 ± 0.1	ND 1	13.5 ± 3.3	3.5 ± 0.8	2.7 ± 1.1	1.4 ± 0.5
FOS	2.2 ± 1.6	0.1 ± 0.1	ND	11.1 ± 1.9	2.9 ± 0.5	2.1 ± 0.7	1.2 ± 0.2
GOS/In	2.7 ± 1.5	0.2 ± 0.2	ND	11.7 ± 3.1	3.3 ± 0.9	1.9 ± 0.7	1.3 ± 0.5
α GOS	2.9 ± 1.4	0.1 ± 0.1	ND	10.7 ± 1.9	2.9 ± 0.5	1.7 ± 0.5	1.2 ± 0.3

¹ ND, non-detectable. Data are means \pm SD (n = 8 per groups).

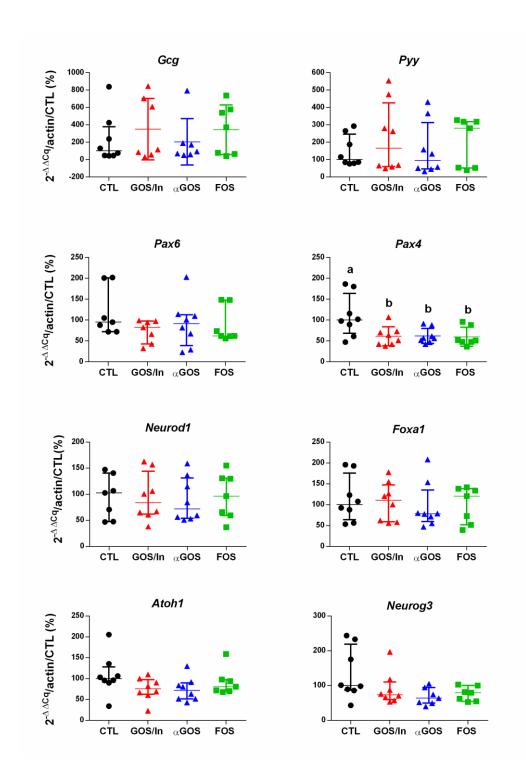


Figure S3. Relative expression of gene implied in the endocrine lineage and in L-cells differentiation in the colon. Different letters indicate significant difference between groups (p < 0.05). Data are fold-change expressed in % of CTL group. Individual values, median with interquartile range are plotted (n = 7 to 8 per group).

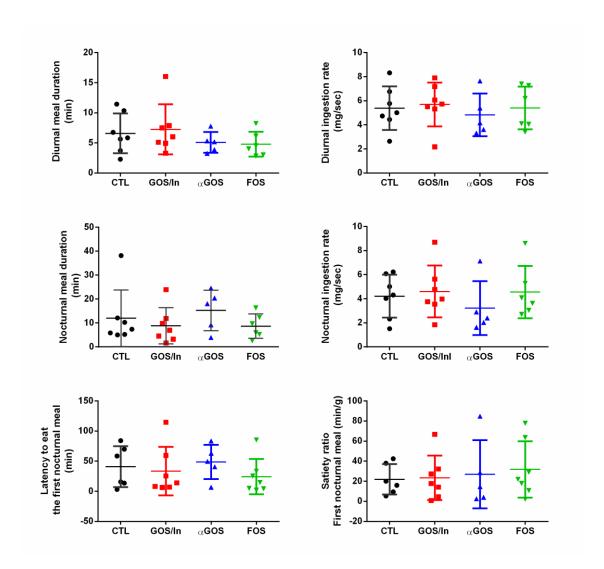


Figure S4. Supplemental parameters of meal pattern: meal duration and ingestion rate (mean of total meals per phase) during the diurnal and nocturnal phases. Latency to eat and satiety ratio are represented for the first meal at the beginning of the nocturnal phase. Individuals, means and SD are plotted (n = 5 to 7 per group).

ward.D2 linkage clustering tree

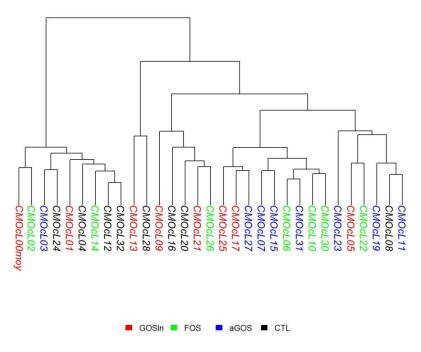


Figure S5. Hierarchical clustering of phylogenetically informed distance matrix computed using the unweighted UniFrac metric for cecal contents collected at PND 124/126.