

Supplementary Table 1. Experiments' design

SPF Parameter Figure n: expt	Body weight 1A-C 5	Body length 1C 4	Body width 1D 3	uCT 1H-K, 2A-B 1	WAT weight 2D 3	adipocyte size 2F 2	WAT flow 2G-H 3	Blood lipids 2h-J 3	Leptin/cytokines 2K-M 4	GH/IGF day 4 3 1	GH/IGF day 7 3 2	GH/IGF day 15 3 4	16S 4 1			
Expt 1	10 / 10	9 / 5											6 / 6			
2	8 / 6	8 / 6	8 / 6	8 / 6		8 / 6										
3	10 / 9	10 / 8			10 / 8		8 / 8	5 / 5	5 / 5							
4	14 / 14				7 / 6		7 / 6	5 / 5	5 / 5			7 / 7				
5	12 / 12	12 / 12	12 / 12								5 / 5	5 / 5				
6						6 / 5										
7					5 / 6							5 / 5				
8								4 / 3	6 / 6 8 / 6	8 / 8		5 / 5				
9							1 / 1 pooled				5 / 5					
Note	Effect observed in every experiment, weight measured as frequently (daily) after expt 5 therefor not (shown).	Not measured in other expt to reduce handling	Not measured in other expt to reduce handling	N=1 due to cost / Fig1K n=2-3 trabecular bones damaged in processing		Not measured in other expt, WAT used for different parameters	max n=8/group for technical limitations (processing times)	Blood volume limited, utilized for other measurements too	Blood volume limited, utilized for other measurements too	n=1 due to large plasma volume required & endpoint day 4	N=2 due to large plasma volume required & endpoint 7	Blood volume limited, utilized for other measurements too	N=1 due to cost			
							Expt 9 cells pooled due to low cell yield									
Germ-free Parameter Figure n: expt	GF weight/length 5A-D 3	GF WAT 5E 2	GF GH/IGF1 day 5E 1	GF GH/IGF1 day 15 5E 1	Numbers indicate number of mice for the control group (left) and no colostrum/mature milk group (right)											
Expt GF1	4 / 5															
GF2	11 / 12	11 / 12														
GF3 FMT	10 / 9	10 / 9	5 / 5	8 / 8												
Note		WAT not collected in GF1	blood volume limited	blood volume limited												
Supplements Parameter Figure n: expt	Milk S1A 2	uCT S1C-D 1	Cholesterol S1E-F 3	Weight 6wks S2A 1	length/WAT d48 S2B-C 1	consumption d S3A 1	consumption day S3A 1	Gut length d4 S3B 1	Gut length d14 S3B 2	Villus length d4 S3C 1	Villus length d1 S3C 2	Faecal lipid S3E 1	Read counts S4 1	Growth FMT S5A-E 1	GH/IGF FMT S5F-G 1	Cohousing S6 1
Expt 1														6 / 6		
2		8 / 6														
3			5 / 5													
4			5 / 5													
5				6-12 per timepoi	6 / 6			5 / 6	5 / 6			3 / 4 5 / 6	5 / 5 (not shown)			6 / 6
6																
7																
8			5 / 3						6 / 5	5 / 4		6 / 6				
9	5 (day 14)															
10	7					6 / 6	11 / 11									
GF3 FMT														10 / 10	8 / 8	
Note	Milk volume limited, not enough to measure lactose, TG, protein in the same sample	n=1 due to cost	Blood volume limited	N=1 as a proof of principle, adult age outside scope of paper	N=1 as a proof of principle, adult age outside scope of paper					Only tissue with at least three intact villi included	Only tissue with at least three intact villi included	At day 4 in the no col group to obtain % lipid n=2 samples pooled	N=2 due to cost, one representative experiment shown	Only n=1 expt including FMT due to cost	Only n=1 expt including FMT due to cost	Only n=1 expt cohousing as continued with germ-free mice