Supplementary Table 4. Recovery of microbial diversity from complex human fecal microbiomes by culturing and mouse colonization. Related to Figures 4 and 7.

## (A) Species-level recovery

		% Detected after:		
Human	Species detected	Anaerobic	Aerobic	Colonized in
subject	(whole sample)	Culturing	Culturing	suckling mice
Α	47	40.00%	6%	63%
В	55	29%	2%	55%
С	47	38%	15%	78%
D	39	51%	7%	64%
E	39	46%	7%	74%
F	55	38.00%	14.00%	54%

## (B) Genus-level recovery

		% Detected after:		
Human	Genera detected	Anaerobic	Aerobic	Colonized in
subject	(whole sample)	Culturing	Culturing	suckling mice
Α	25	52.00%	12%	92%
В	29	38%	3%	79%
С	28	43%	25%	78%
D	24	58%	13%	75%
E	17	76%	18%	82%
F	31	48.00%	25.00%	65%

(C) Total species-level relative abundance of complete fecal specimen represented by strains recovered after *in vitro* culturing.

Human	Total relative abundance (species level) of complex sample recovered		
subject	Anaerobic	Aerobic	
-	Culturing	Culturing	
Α	99%	0%	
В	85%	0%	
С	91%	1%	
D	94%	38%	
Е	66%	0%	
F	88%	97%	

## (D) Genus-level relative abundance in complex human fecal microbiomes represented by model community members.

Human Subject	% Complex sample genus-level abundance represented by CR model community	% Genus-level abundance of fecal sample colonized in suckling mice represented by CR model community	% Complex sample genus- level abundance represented by DS model community	% Genus-level abundance of fecal sample colonized in suckling mice represented by DS model community
Α	62%	47.00%	0.10%	0.30%
В	37.00%	10.00%	0.20%	1.00%
С	55.00%	44.00%	0.30%	1.00%
D	54.00%	30.00%	1.00%	5.00%
E	60.00%	34.00%	0.00%	2.00%
F	73.00%	42.00%	0.05%	0.09%