Table 2: Effects of diet and select prebiotics on fecal microbial communities in cats

Dry (33 % protein, 11 The dry diet increased the abundance of % fat and 46 % Actinobacteria and decreased those of carbohydrate; DMB) v. Fusobacteria and Proteobacteria compared with	Bermingham 2013
	2013
carbohydrate; DMB) v. Fusobacteria and Proteobacteria compared with	
wet (42 % protein, 42 the wet diet. The dry diet increased the	
% fat and 5 % abundances of Lactobacillus, Megasphaera and	1
carbohydrate; DMB) Olsenella and decreased that of Bacteroides and	1
diets Blautia	
HPLC (53 % protein, The abundance of Actinobacteria was increased	Hooda 2013
24 % fat and 31 % and that of Fusobacteria was decreased in the	
carbohydrate; DMB) MPMC group. The abundances of <i>Clostridium</i> ,	
dry kibble diet v. Faecalibacterium, Ruminococcus, Blautia and	
MPMC (34 % protein, Eubacterium were higher in the HPLC group,	
9 % fat and 11 % while those of <i>Dialister, Acidaminococcus</i> ,	
carbohydrate; DMB) Bifidobacterium, Megasphaera and Mitsuokella	ı
dry kibble diet were higher in the MPMC group	
HPLC (53 % protein, The abundances of Firmicutes and	Deusch
24 % fat and 31 % Actinobacteria were lower, but those of	2014
carbohydrate; DMB) Fusobacteria and Proteobacteria were higher in	
dry kibble diet v. the HPLC group. Fusobacterium, Clostridium,	
MPMC (34 % protein, Eubacterium, Ruminococcus, Bacteroides and	
9 % fat and 11 % Desulfovibrio were more abundant in the HPLO	

carbohydrate; DMB)	group. Megasphaera, Bifidobacterium,	
dry kibble diets	Acidaminococcus, Selenomonas, and Prevotella	
	were more abundant in the MPMC group.	
	Pathways related to amino acid biosynthesis	
	and metabolism exhibited strongest diet-related	
	differences	
High-	Increased abundances of Firmicutes and	Bermingham
protein:fat:carbohydrate	Actinobacteria and a decreased abundance of	2013
wet diet (45:37:2 %	Fusobacteria were observed in kittens fed the	
DM) v. moderate	dry diet compared with those fed the wet diet	
protein:fat:carbohydrate	after weaning	
protein:fat:carbohydrate dry diet (35:20:28 %;	after weaning	
	after weaning	