

**Supplementary Table S4.** OTUs at genus level significantly different ( $q < 0.05$ ) between rumen samples of cows fed control and concentrate with cold-pressed rapeseed cake

OTU ID	Taxonomy	log2FoldChange*	SE	Adjusted P-value
denovo7988	<i>Entodinium</i>	2.74	0.579	<0.001
denovo3176	<i>Entodinium</i>	2.10	0.563	0.010
denovo132	<i>Entodinium</i>	2.09	0.552	0.009
denovo4456	<i>Entodinium</i>	1.97	0.580	0.021
denovo5608	UG_Trichostomatia	1.87	0.580	0.031
denovo312	<i>Entodinium</i>	1.66	0.558	0.046
denovo8298	<i>Ophryoscolex</i>	1.60	0.528	0.046
denovo8554	UG_Trichostomatia	1.58	0.524	0.045
denovo263	<i>Entodinium</i>	1.46	0.500	0.048
denovo1637	UG_Neocallimastigaceae	-1.50	0.518	0.050
denovo8811	<i>Ophryoscolex</i>	-1.76	0.579	0.045
denovo5447	UG_Haptoria	-2.13	0.544	0.007

UG: undefined genus; SE: standar error; \*significant mean positive log2 fold changes correspond to increased relative abundance in cold-pressed rapeseed cake group and significant mean negative log2 fold changes correspond to decreased relative abundance in cold-pressed rapeseed cake group.