

Table S1: Relative abundance (%) of bacteria at Phylum and Genus level in the gut microbiome of juvenile African catfish (*Clarias gariepinus*) fed commercial feed in the control group (C) and fed with enriched feed (W1 – W3) in research groups during a feeding experiment.

Phylum	Groups			
	C (%)	W1 (%)	W2 (%)	W3 (%)
<i>Actinobacteriota</i>	12.56	10.81	5.89	9.75
<i>Bacteroidota</i>	14.73	6.85	5.74	9.10
<i>Cyanobacteria</i>	0.19	0.13	0.13	0.15
<i>Firmicutes</i>	5.85	6.15	5.01	5.67
<i>Fusobacteriota</i>	51.26	61.44	51.35	54.68
<i>Proteobacteria</i>	15.13	14.22	31.76	20.37
<i>Verrucomicrobiota</i>	0.17	0.26	0.09	0.17
Others	0.10	0.15	0.03	0.10
Genus	C (%)	W1 (%)	W2 (%)	W3 (%)
<i>Microbacteriaceae</i>	8.14	6.46	3.50	5.25
<i>Aurantimicrobium</i>	2.97	3.28	1.80	2.41
<i>Klugiella</i>	0.81	0.73	0.33	0.20
<i>Bacteroides</i>	1.85	1.71	0.40	0.28
<i>Barnesiellaceae; G: uncultured</i>	7.78	3.57	2.77	3.86
<i>Macellibacteroides</i>	4.76	1.44	2.46	2.58
<i>Anaerorhabdus furcosa</i> group	1.42	1.80	1.70	1.22
<i>Christensenellaceae R-7</i> group	0.49	1.09	0.06	0.23
<i>Peptostreptococcaceae</i>	1.99	2.01	2.00	1.27
<i>Romboutsia</i>	0.99	0.47	0.69	0.49
<i>Cetobacterium</i>	51.27	61.44	51.35	65.21
<i>Rhizobiales Incertae Sedis; G: uncultured</i>	0.72	0.65	0.34	0.35
<i>GKS98 freshwater</i> group	3.54	2.38	1.48	1.43
<i>Polynucleobacter</i>	0.90	1.41	0.51	2.71
<i>Rhodocyclaceae;g: C39</i>	8.32	9.33	29.04	10.02
<i>Plesiomonas</i>	1.11	0.09	0.17	0.10
Others	2.96	2.13	1.40	2.40