

1     **Total flavonoids of *Rhizoma Drynariae* mitigate aflatoxin B1-induced**  
2     **liver toxicity in chickens via microbiota-gut-liver axis interaction**  
3                                   **mechanisms**

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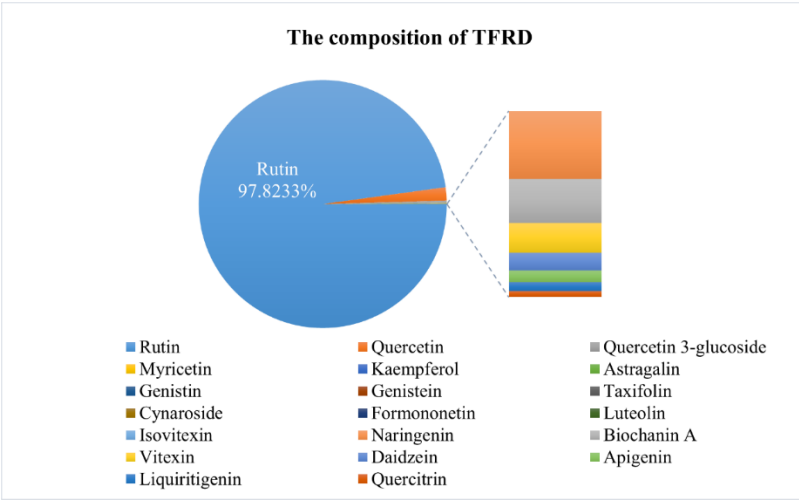
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19     **Supplemental materials**

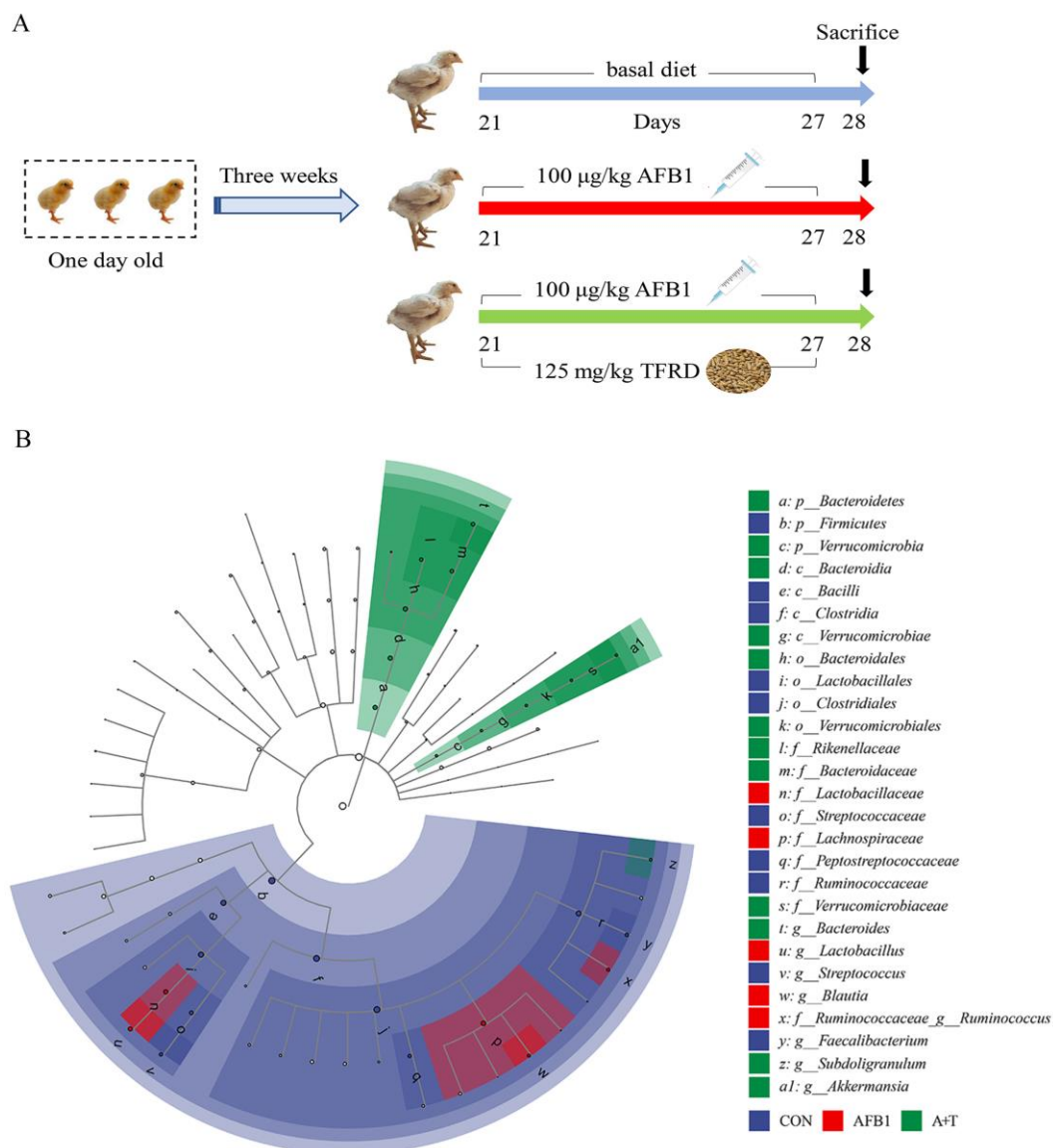
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21     **Fig. S1** Composition and percentage of components of TFRD.

22     **Table S1** Composition and percentage of components of TFRD.

Composition	Percentage (%)
Rutin	97.8233
Quercetin	1.7228
Quercetin 3-glucoside	0.2727
Myricetin	0.0468
Kaempferol	0.0365
Astragalin	0.0362
Genistin	0.0193
Genistein	0.0116
Taxifolin	0.0069
Cynaroside	0.0054
Formononetin	0.0045
Luteolin	0.0044
Isovitexin	0.0032
Naringenin	0.0023
Biochanin A	0.0015
Vitexin	0.001
Daidzein	0.0006
Apigenin	0.0004
Liquiritigenin	0.0003
Quercitrin	0.0002



**Fig. S2 (A) Scheme of experiments. (B) Cladogram generated from LEfSe analysis of gut microbiota (LDA score > 3.5).**

27 **Table S2** Primer sequences for quantitative real-time PCR analysis.

Gens	Gene bank ID	Primer sequence (5'-3')	Products length
ACSL1	XM_046916038.1	F: GACTAATGGTCACAGGAGCAGCAC R: CCAGGCATTGACAGTGAGCATCC	133
ACSL4	XM_046917350.1	F: CAATAGAGCAGAGTACCCTGAG R: TAGAACCACTGGTGTACATGAC	146
ACC	XM_046929960.1	F: TCCAGCAGAACCGCATTGACAC R: GTATGAGCAGGCAGGACTTGGC	187
Claudin-1	NM_001013611.2	F: GGGGACAACATCGTGACCG R: AGGAGTCGAAGACTTTGCACT	100
CPT-1A	XM_046918285.1	F: CACAGGGCTTTGGGTTGC R: TTTACAAGAGTCATCCACAGCTTGG	132
FAS	NM_205155.4	F: GCTCTGCGTCTGCTTCAGTCTAC R: GGTACAGGACTCTGCCATCAATGC	96
FTH1	NM_205086.2	F: GCCGAGAAACTGATGAAGCTGC R: GCACACTCCATTGCATTCAGCC	113
GPX4	NM_204220.3	F: AACCAGTTCGGGAAGCAGGA R: ACTTGATGGCATTCCCCAGC	181
MUC2	XM_040673077.2	F: CAGGATACGTGTGTGCCCCAT R: GGACGCGTTGCAATCAAAGT	198
Occludin	XM_046904540.1	F: CCTCATCGTCATCCTGCTCT R: GGTCCCAGTAGATGTTGGCT	95
PPAR $\alpha$	XM_046906390.1	F: TGCTGTGGAGATCGTCCTGGTC R: CTGTGACAAGTTGCCGGAGGTC	166
SREBP1	XM_046900546.1	F: TTCTTCGTGGACGGGGATTG R: AGCTGAAGGTACTCCAACGC	218
GAPDH	NM-204305.1	F: CCTCTCTGGCAAAGTCCAAG R: GGTCACGCTCCTGGAAGATA	176

28 Note: F.Forward primer; R. Reverse primer. ACSL1, acyl-CoA synthetase long chain  
 29 family member 1; ACSL4, acyl-CoA synthetase long chain family member 4; ACC,  
 30 acetyl-CoA carboxylase alpha; CPT-1A, carnitine palmitoyltransferase 1A; FAS, fatty  
 31 acid synthase; FTH1, ferritin heavy chain 1; GPX4, glutathione peroxidase 4; MUC2,  
 32 mucin2; PPAR $\alpha$ , peroxisome proliferator activated receptor alpha; SREBP1, sterol

33 regulatory element binding transcription factor 1; GAPDH, reference gene.

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