

**Rutin and quercetin, bioactive compounds from tartary buckwheat,
prevents liver inflammatory injury**

Chia-Chen Lee^a Siou-Ru Shen^a Ying-Jang Lai^b She-Ching Wu^{a*}

Supplementary Data

Table S1

The dietary formula of control and ethanol liquid diets.

Ingredient	Control liquid diet	Ethanol liquid diet
	g/liter of diet	
Casein	41.4	41.4
L-cystine	0.5	0.5
DL-methionine	0.3	0.3
Corn oil	8.5	8.5
Olive oil	28.4	28.4
Safflower oil	2.7	2.7
Maltose dextrin	115.2	25.6
Cellulose	10	10
Salt mix ^a	8.75	8.75
Vitamin mix ^b	2.5	2.5
Choline bitartrate	0.53	0.53
Xanthan gum	3	3
Ethanol	-	132.18 g of diet added 67.3 mL of 95% ethanol

^a Salt mixture contained the following (mg/liter of diet): NaCl, 3400; MgSO₄, 1000; CuSO₄·5H₂O, 250; CaCO₃, 2100; CaHPO₄, 250; KI, 500; MnSO₄·H₂O, 200; ZnCl₂, 300; K₂HPO₄, 150; FeC₆H₅O₇, 600.

^b Vitamin mixture contained the following (mg/liter of diet): vitamin A, 0.4; vitamin D3, 0.0025; vitamin B1, 1.7; vitamin B2, 1.6; nicotinic acid, 18; vitamin B6, 2.5; vitamin B12 0.001; vitamin C, 60; vitamin E, 10; folic acid, 0.2; pantothenic acid, 6; biotin, 0.2.

Table S2

Effects of EEB on serum and hepatic TG and TC in mice treated with ethanol induction.

Groups*	Serum TG mg/dL	Serum TC	Hepatic TG	Hepatic TC
Normal	104.5 ± 10.5	128.7 ± 8.8	16.7 ± 2.0	2.5 ± 0.3
Ethanol	158.0 ± 17.2**	176.0 ± 8.8**	24.5 ± 4.9*	3.6 ± 0.7*
Ethanol + silymarin	107.2 ± 32.8 [#]	129.6 ± 7.7 ^{##}	17.0 ± 2.7	3.5 ± 0.4
Ethanol + EEB	107.0 ± 12.1 ^{##}	142.3 ± 3.2 ^{##}	13.3 ± 2.9 [#]	2.6 ± 0.5 [#]
Ethanol + rutin	102.8 ± 7.9 ^{##}	136.5 ± 6.4 ^{##}	13.9 ± 2.2 [#]	2.5 ± 0.6 [#]
Ethanol + quercetin	101.3 ± 18.0 ^{##}	142.3 ± 13.8 ^{##}	12.3 ± 1.9 ^{##}	3.1 ± 0.2

Each value represents the mean ± S.D. (n = 6). Data are regarded statistically significant with **P* < 0.05, ***P* < 0.01 vs. normal group and [#]*P* < 0.05, ^{##}*P* < 0.01 vs. ethanol group. TG: triglyceride, TC: total cholesterol.