Supporting information

Dose-Dependent Effects of Triclocarban Exposure on Lipid Homeostasis in Rats

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Supporting information includes two figures (Figure S1, Page S3 and Figure S2, Page S4) and two tables (Table S1, Page S5 and Table S2, Page S6).

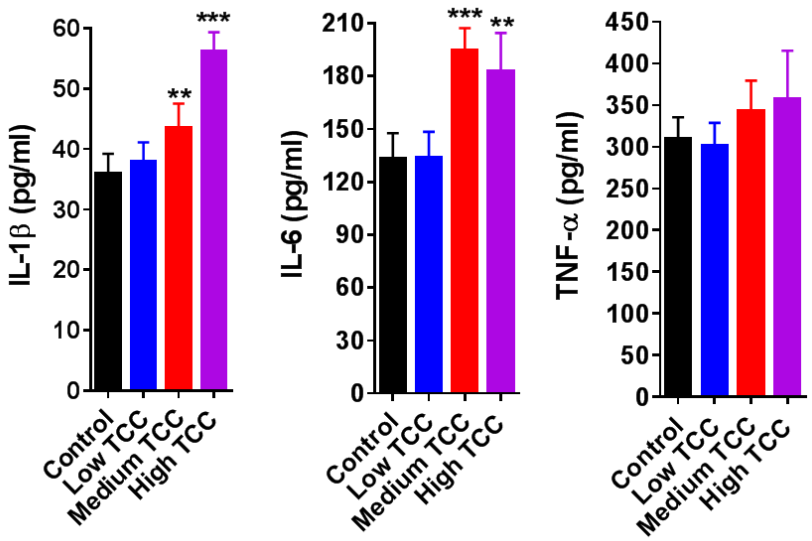

Figure S1. Quantitative ELISA assessments of proinflammatory cytokines including IL-1β, IL-6 and TNF-α in plasma of rats after TCC treatment with different doses in comparison with the control animals. Data are presented as mean ± s.d., n = 8 per group; *$p < 0.05$, **$p < 0.01$, ***$p < 0.001$, one-way ANOVA with Tukey's correction.

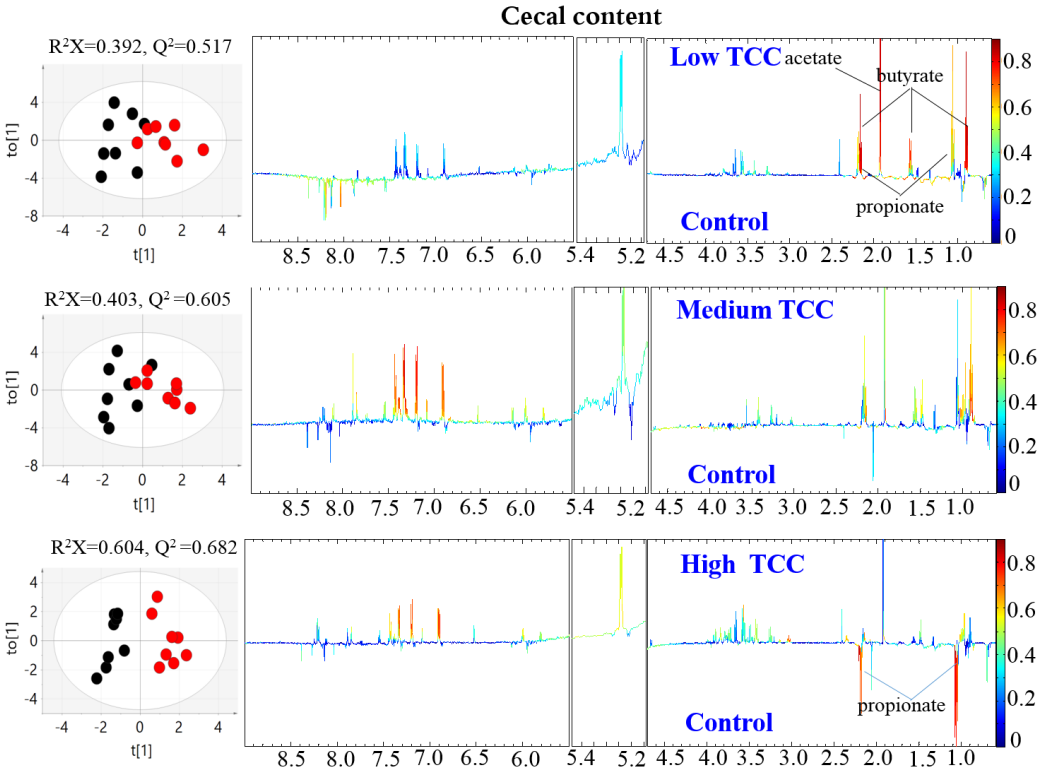

Figure S2. OPLS-DA scores (left) and coefficient-coded loadings plots for the models (right) from NMR spectra of aqueous cecal content, discriminating between the vehicle (black dots) and different doses of TCC-treated rats (red dots). These models are cross-validated with CV-ANOVA: $p = 1.59 \times 10^{-3}$, $p = 0.016$, and $p = 0.028$ for the models of cecal contents from rats after low, medium and high dose TCC treatment, respectively.

Table S1 Clinical biochemistry parameters in palsma of rats exposed to TCC with different doses.

Parameters	Control	Low TCC (50 μg/kg)	Medium TCC (20 mg/kg)	High TCC (100 mg/kg)
ALT (IU/L)	28.75±7.52	27.75±6.63	24.38±1.85	29.88±10.19
AST (IU/L)	50.25±7.72	51.50±9.32	56.13±5.89	56.25±13.32
ALP (IU/L)	126.5±23.75	120.00±41.48	109.50±14.01	132.00±32.52
TP (g/L)	58.06±1.67	58.64±1.04	60.75 ±2.22*	57.96±1.47
ALB (g/L)	30.71±1.16	31.23±0.74	32.15±0.89*	29.68±4.43
G (g/L)	27.35±0.81	27.41±0.56	28.60±1.40*	27.04±1.09
TBIL (mmol/L)	1.16±0.33	1.03±0.20	1.05±0.14	1.09±0.15
DBIL (mmol/L)	0.77±0.16	0.80±0.11	0.83±0.23	0.79±0.22
IBIL (mmol/L)	0.38±0.21	0.23±0.14	0.23±0.10	0.30±0.19
Glc (mmol/L)	7.90±1.24	7.86±1.09	7.74±0.98	7.70±1.45
TG (mmol/L)	0.65±0.21	1.22±0.53*	0.82±0.21	1.02±0.42*
HDL(mmol/L)	0.48±0.06	0.50±0.08	0.51±0.08	0.57±0.05*
LDL (mmol/L)	0.28±0.13	0.47±0.07*	0.30±0.09	0.31±0.05
CHOL(mmol/L)	1.33±0.18	1.46±0.27	1.45±0.33	1.59±0.18
BUN (μmol/L)	5.56±0.69	4.85±0.47	4.85±0.60	5.34±0.45
CREA(μmol/L)	25.00±2.61	29.25±5.42*	28.75±6.80*	31.63±8.12*

Values are presented as mean ± S.D. (n=8).* $p < 0.05$ and ** $p < 0.01$ indicate statistically significant differences when compared to control group

Table S2 Primers used for quantitative real-time PCR.

	Forward primer (5’ -3’)	Reverse primer (5’-3’)
Ahr	CCATGTCCATGTACCAGTGC	GAAAGCCCTTACCTTGCTTAGGA
Cyp1a1	TTTGTGAACCAGTGGCAGGT	CTTCTCGCCTGGTGACACAT
Cyp1b1	CCGAAAAGAAGGCGACTGG	TGCACATCCGGGTATCTGGTAAAG
Acaca	TCCCGGAGCTACTCTTAAAAAATG	CCCCAACGCCCACATG
Fasn	CTTGGGTGCCGATTACAACC	GCCCTCCCGTACACTCACTC
Sptlc2	GTGGGATTTCCTGCTACCCC	TGGCGGGAGTACTTCAGTTG
Cers2	GGACCGGTCAGCTTTGCAC	GCCGACGGTCAGGTAGAAAT
Cers6	GGAGATCGTTGGACCGTACC	ACACATGTACAGGGTTCCAC
SCD-1	CAACACCATGGCGTTCCA	GCGTGTGTCTCAGAGAACTTGTG
Gpr41	TCACCTGGATGAGCTTCGAC	GACAAGGACCACTGCGAAGA
Gpr43	CCGGTGCAGTACAAGCTATC	GACTCTGCCTCAAGTGGAAC
β-actin	CTAAGGCCAACCGTGAAAAG	CGACCAGAGGCATACAGGGACAAC
Firmicutes	CAGCAGTAGGGAATCTTC	ACCTACGTATTACCGCGG
Bacteroidetes	GGARCATGTGGTTTAATTCGATGAT	AGCTGACGACAACCATGCAG
Actinobacteria	GADACYGCCGGGGTYAACT	TCWGCGATTACTAGCGAC
Lactobacillus	TGGAAACAGRTGCTAATACCG	GTCCATTGTGGAAGATTCCC
All bacteria	ACTCCTACGGGAGGCAGCAG	ATTACCGCGGCTGCTGG

Ahr: aryl hydrocarbon receptor; *Cyp1a1:* cytochrome P450, family 1, subfamily a, polypeptide 1; *Cyp1b1:* cytochrome P450, family 1, subfamily b, polypeptide 1; *Acaca***:** acetyl-CoA carboxylase; *Fasn*: fatty acid synthase; *Scd1*: stearoyl-CoA desaturase-1; *Gpr41:* G protein-coupled receptors 41; *Gpr43:* G protein-coupled receptors 43; Bacteria primers for Firmicutes, Bacteroidetes, Actinobacteria, and Lactobacillus were previously published.