

Table S1: General indices related to the phospholipid fatty acid (PL FAs) composition in the mice spleen in the group fed a standard diet, FCO and FOO diets on the 1st, 2nd and 7th d after partial hepatectomy (PHx).

Fatty acids	Control diet				FCO diet				FOO diet			
	Control	pHx			Control -FCO	pHx			Contro I-FOO	pHx		
		1d	2d	7d		1d	2d	7d		1d	2d	7d
UFA/SFA	1.00±0.09	1.04±0.08	1.03±0.16	1.02±0.16	1.14±0.15*	1.10±0.06	0.94±0.24	0.86±0.14	1.02±0.10	1.07±0.07	0.91±0.21	1.24±0.54
PUFA/SFA	0.73±0.09	0.71±0.06	0.71±0.15	0.66±0.15	0.84±0.16*	0.83±0.04	0.70±0.22	0.63±0.11	0.65±0.06	0.71±0.07	0.49±0.19	0.88±0.51
PUFA/MUFA	2.67±0.28*	2.22±0.38	2.22±0.78 ^d	1.83±0.49 ⁱ	2.79±0.39	3.00±0.18	2.86±0.63	2.72±0.22	1.77±0.19*	1.95±0.13	1.15±0.43 ^d	2.43±1.18 ^j
18:2/20:4	0.65±0.09	0.75±0.08	0.78±0.12	0.59±0.15 ⁱ	0.87±0.17*	0.67±0.10	0.84±0.22	0.58±0.12 ^c	0.66±0.11*	0.63±0.09	0.92±0.44	0.41±0.17 ^j
20:4/22:6	1.33±0.15*	1.20±0.07	1.31±0.30	2.39±0.52 ^e	1.42±0.15	1.56±0.16	1.48±0.22	2.20±0.75	1.38±0.29*	1.29±0.17	2.04±1.07	1.83±0.37 ^e
n-3/n-6	0.45±0.06*	0.50±0.05	0.47±0.15	0.27±0.07	0.37±0.03	0.38±0.02	0.37±0.09	0.33±0.11	0.43±0.08	0.51±0.08	0.34±0.15	0.41±0.13
n-9/n-6	0.48±0.06	0.57±0.10	0.58±0.12	0.65±0.16	0.46±0.07	0.42±0.03	0.43±0.06	0.48±0.07	0.74±0.07*	0.69±0.06	1.21±0.46 ^d	0.60±0.16 ⁱ
D9C18	0.86±0.10*	1.07±0.29	1.01±0.07	1.44±0.26	0.96±0.09	0.90±0.06	0.87±0.10	1.00±0.19	1.30±0.37*	1.16±0.01	1.51±0.20 ^d	1.13±0.35
D9C16	0.05±0.01*	0.08±0.01	0.07±0.01	0.05±0.01	0.04±0.01	0.04±0.01	0.04±0.01	0.01±0.01	0.05±0.02	0.06±0.03	0.05±0.01	0.04±0.02
D6D	0.18±0.04*	0.12±0.03a	0.08±0.02 ^b	0.10±0.03 ^c	0.10±0.02*	0.08±0.03	0.07±0.03	0.09±0.04 ^{c,f}	0.22±0.05*	0.08±0.04	0.08±0.02	0.09±0.05 ⁱ
D5D	16.09±1.3	20.26±8.6	25.35±10.8	26.54±14.5 ^{c,f}	24.79±2.4*	24.01±6.3	35.36±25.7	29.99±2.30 ^c	18.45±7.6*	27.16±9.4	20.74±6.1	41.23±2.38 ^{c,f}
ACL	18.09±0.14*	17.95±0.06	17.95±0.19	17.81±0.22	18.07±0.13*	18.09±0.03	17.91±0.34	17.84±0.19	17.96±0.14	18.01±0.12	17.71±0.30	18.20±0.61
DBI	170±12.45	171±8.95	169±25.40 ^d	154±24.96	177±16.45*	183±2.26	164±35.19	156±20.07 ^e	169±11.75*	166±13.89	129±39.56 ^d	185±56.84
PI	157±15.19	151±10.69	149±29.61 ^d	127±29.72	155±17.64*	163±2.01	144±41.46	136±22.76	136±9.06*	152±14.71	100±43.65 ^d	169±70.72
SCD1ratio	0.31±0.02*	0.27±0.03	0.24±0.02 ^d	0.23±0.04 ⁱ	0.28±0.01*	0.33±0.05	0.32±0.02 ^b	0.36±0.05 ^c	0.38±0.06*	0.36±0.02	0.43±0.05	0.35±0.04 ⁱ
Elovl6 ratio	0.78±0.06	0.69±0.05	0.59±0.14	0.58±0.10 ⁱ	0.74±0.07*	0.65±0.04	0.67±0.03 ^b	0.67±0.11 ^c	0.84±0.11*	0.79±0.13	0.83±0.10	0.67±0.09

Values are area per cent (mean ± SD of 6-8 mice/group); *significant difference during PHx among same diet using *Kruskal-Wallis* Anova by Ranks test; ^asignificant difference between the control and 1st day PHx using *Kruskal-Wallis* test: multiple comparisons of mean ranks for all groups ($P<0.05$); ^bsignificant difference between the control and 2nd day PHx using *Kruskal-Wallis* test: multiple comparisons of mean ranks for all groups ($P<0.05$); ^csignificant difference between the control and 7th day PHx using *Kruskal-Wallis* test: multiple comparisons of mean ranks for all groups ($P<0.05$); ^dsignificant difference between the 1st and 2nd day PHx using *Kruskal-Wallis* test: multiple comparisons of mean ranks for all groups ($P<0.05$); ^esignificant difference between the 1st day and 7th day PHx using *Kruskal-Wallis* test: multiple comparisons of mean ranks for all groups ($P<0.05$); ^fsignificant difference between the 2nd and 7th day PHx using *Kruskal-Wallis* test: multiple comparisons of mean ranks for all groups ($P<0.05$).

Table S2: Fatty acid composition (%) of the total phospholipids (PL) in the mice liver in the group fed a standard diet, FCO and FOO diets on the 1st, 2nd and 7th d after partial hepatectomy (PHx) [29].

Fatty acids	Control diet				FCO diet				FOO diet			
	Control	pHx			Control -FCO	pHx			Control -FOO	pHx		
		1d	2d	7d		1d	2d	7d		1d	2d	7d
18:2n-6	13.67±1.31*	16.31±0.85	16.12±0.52 ^b	15.96±1.18 ^e	17.46±1.06*	20.16±1.07 ^a	18.40±1.22	17.38±1.57 ^e	13.64±1.17*	16.31±0.85 ^a	14.23±1.04	14.34±1.11
18:3n-6	0.42±0.50	0.22±0.14	0.30±0.15	0.24±0.11	0.36±0.03	0.41±0.21	0.40±0.13	0.32±0.13	0.37±0.09*	0.12±0.06 ^a	0.26±0.07	0.26±0.08
20:2n-6	0.18±0.07*	0.16±0.04	0.17±0.04	0.25±0.06	0.35±0.02*	0.36±0.07	0.30±0.06	0.43±0.04 ^f	0.18±0.02*	0.16±0.04	0.16±0.02	0.24±0.08 ^f
20:3n-6	1.17±0.32	0.98±0.27	1.28±0.28	1.37±0.20	1.52±0.15*	1.03±0.25 ^a	1.13±0.39	1.31±0.20	1.52±0.15*	0.89±0.26 ^a	1.21±0.57	1.46±0.17
20:4n-6	10.89±0.50*	8.18±1.68	9.24±1.01	13.46±0.75 ^{e,f}	13.32±0.66*	10.00±0.66 ^a	10.51±1.38	14.73±1.6 ^{e,f}	10.59±1.09*	7.98±0.95	9.19±0.80	13.52±1.44 ^{e,f}
22:4n-6	0.11±0.05*	0.16±0.12	0.07±0.05	0.20±0.05 ^f	0.14±0.05	0.29±0.20	0.09±0.04	0.28±0.13	0.16±0.04*	0.18±0.17	0.08±0.02	0.28±0.06 ^f
Σν6-ΑΦΥΠ	26.43±1.15*	26.01±2.16	27.19±0.97	31.48±1.33 ^{e,e}	33.15±0.73*	32.25±0.70	30.83±1.52	34.45±1.44 ^f	26.46±0.56*	25.64±0.97	25.14±0.93	30.11±2.09 ^{e,f}
20:5n-3	0.95±0.28*	0.85±0.36	0.94±0.16	0.53±0.14 ^{c,f}	0.46±0.06	0.59±0.15	0.50±0.06	0.34±0.17	0.69±0.08	0.79±0.29	0.84±0.21	0.59±0.10
22:5n-3	0.66±0.07*	0.70±0.14	0.61±0.07	0.45±0.06 ^{c,f}	0.44±0.06	0.45±0.05	0.40±0.06	0.53±0.17	0.47±0.07	0.49±0.06	0.45±0.07	0.50±0.09
22:6n-3	19.61±1.56*	17.81±0.72	17.97±1.44	12.75±1.10 ^{c,f}	14.68±1.44*	15.55±0.96	15.90±1.42	13.65±1.03 ^f	15.09±1.01*	18.58±0.64	15.22±1.74	13.53±1.27 ^e
Σν3-ΑΦΣ	21.22±1.77*	19.36±0.28	19.52±1.41	13.72±1.12 ^{c,f}	15.58±1.50*	16.58±1.00	16.80±1.42	14.52±1.06 ^f	16.25±1.10*	19.86±0.84	16.51±1.83	14.62±1.29 ^e
Σ ΑΦΥΠ	47.65±0.91*	45.37±2.10 ^a	46.71±1.79	45.19±1.64 ^e	48.73±1.14	48.83±1.39	47.63±1.91	48.96±1.17	42.71±1.13*	45.50±1.35	41.64±2.32 ^d	44.72±2.09 ^e
14:00	0.06±0.02	0.05±0.01	0.07±0.03	0.07±0.02	0.07±0.02	0.05±0.02	0.09±0.07	0.07±0.01	0.06±0.02	0.05±0.01	0.06±0.01	0.08±0.01 ^e
16:00	25.22±1.16*	27.80±1.71 ^b	26.19±1.33	25.05±1.02 ^a	23.20±0.63*	24.00±1.22	25.04±1.40	23.33±0.79	25.23±1.93	24.02±0.46	25.99±1.27 ^d	24.92±1.76
18:00	16.14±1.49	16.87±2.07	17.19±0.60	16.37±1.20	19.18±0.68*	18.36±1.17	17.93±1.12	16.71±0.85 ^c	16.24±2.48*	17.22±0.78	16.98±1.21	14.72±1.03
20:00	0.33±0.12*	0.14±0.12 ^a	0.12±0.06 ^b	0.19±0.07	0.56±0.08*	0.17±0.07 ^a	0.18±0.07 ^b	0.23±0.07	0.56±0.13*	0.23±0.18	0.11±0.05 ^b	0.19±0.06
24:00:00	0.20±0.21	0.13±0.09	0.09±0.08	0.09±0.04	0.13±0.04	0.12±0.06	0.10±0.05	0.10±0.05	0.18±0.08	0.12±0.06	0.13±0.04	0.09±0.05
Σ ΑΦΣ	41.94±2.08*	44.98±1.44 ^a	43.66±1.10	41.77±1.09 ^{e,f}	43.13±0.74*	42.70±1.88	43.33±1.50	40.44±0.66 ^{c,f}	42.28±1.07*	41.64±1.25	43.27±2.05	40.01±1.45 ^f
16:1n-7	0.97±0.20	1.36±0.49	1.18±0.20	1.35±0.24 ^c	0.68±0.08*	0.79±0.12	0.96±0.16	1.20±0.28 ^c	1.04±0.39*	0.97±0.16	1.20±0.06 ^d	1.65±0.55 ^{c,e}
18:1n-9	9.39±1.51*	8.83±1.69	8.12±0.74	11.57±2.38 ^f	7.46±0.50*	7.38±0.70	7.81±0.62	9.25±1.27 ^e	13.97±0.45*	11.56±0.99 ^a	13.48±1.04 ^d	13.50±1.10 ^e
20:1n-9	0.04±0.09*	0.21±0.10	0.33±0.11 ^b	0.11±0.03 ^f	0.00*	0.31±0.12 ^a	0.28±0.08 ^b	0.14±0.05	0.00*	0.33±0.13 ^a	0.40±0.04 ^b	0.11±0.04 ^f
Σ ΑΦΥΜ	10.40±1.58*	10.39±2.09	9.62±0.81	13.04±2.52 ^f	8.14±0.55*	8.47±0.65	9.04±0.79	10.59±1.48 ^c	15.01±0.77*	12.86±0.94 ^a	15.08±1.09 ^d	15.27±1.38 ^e

Values are area per cent (mean ± SD of 6-8 mice/group); *significant difference during PHx among same diet using *Kruskal-Wallis* Anova by Ranks test; ^asignificant difference between the control and 1st day PHx using *Kruskal-Wallis* test: multiple comparisons of mean ranks for all groups ($P<0.05$); ^bsignificant difference between the control and 2nd day PHx using *Kruskal-Wallis* test: multiple comparisons of mean ranks for all groups ($P<0.05$); ^csignificant difference between the control and 7th day PHx using *Kruskal-Wallis* test: multiple comparisons of mean ranks for all groups ($P<0.05$); ^dsignificant difference between the 1st and 2nd day PHx using *Kruskal-Wallis* test: multiple comparisons of mean ranks for all groups ($P<0.05$); ^esignificant difference between the 1st day and 7th day PHx using *Kruskal-Wallis* test: multiple comparisons of mean ranks for all groups ($P<0.05$); ^fsignificant difference between the 2nd and 7th day PHx using *Kruskal-Wallis* test: multiple comparisons of mean ranks for all groups ($P<0.05$).

Table S3: General indices related to the phospholipid fatty acid (PL FAs) composition in the mice liver in the group fed a standard diet, FCO and FOO diets on the 1st, 2nd and 7th d after partial hepatectomy (PHx) [29].

Fatty acids	Control diet				FCO diet				FOO diet			
	Control	pHx			Contro I-FCO	pHx			Control -FOO	pHx		
		1d	2d	7d		1d	2d	7d		1d	2d	7d
PUFA/S FA	1.14±0.08*	0.99±0.09 ^a	1.07±0.07	1.08±0.03	1.13±0.04	1.15±0.08	1.10±0.08	1.21±0.03	1.01±0.05*	1.09±0.06	0.96±0.10	1.12±0.09 ^f
PUFA/M UFA	4.66±0.63*	4.44±0.86	4.89±0.58	3.60±0.81 ^f	6.02±0.51*	5.79±0.36	5.31±0.62	4.71±0.81 ^c	2.85±0.19*	3.56±0.36 ^a	2.72±0.28 ^d	2.96±0.37
18:2/20:4	1.26±0.13*	1.95±0.34 ^a	1.76±0.19	1.19±0.10 ^{e,f}	1.32±0.14*	2.03±0.19 ^a	1.78±0.30	1.20±0.22 ^{e,f}	1.31±0.23*	2.07±0.31 ^a	1.57±0.24	1.07±0.12 ^{e,f}
20:4/22:6	0.56±0.06*	0.46±0.09	0.52±0.07	1.06±0.12 ^{e,f}	0.92±0.12*	0.65±0.05	0.67±0.13	1.08±0.11 ^{e,f}	0.70±0.03*	0.43±0.06	0.62±0.08	1.01±0.12 ^{e,f}
n-3/n-6	0.84±0.11*	0.79±0.09	0.74±0.06	0.45±0.04 ^{c,e}	0.49±0.05*	0.53±0.03	0.57±0.05	0.44±0.04 ^{e,f}	0.64±0.05*	0.78±0.04	0.66±0.05	0.50±0.06 ^f
n-9/n-6	0.36±0.07	0.37±0.12	0.31±0.03	0.38±0.09	0.23±0.02	0.24±0.01	0.27±0.03	0.28±0.04	0.54±0.03*	0.47±0.05	0.56±0.05 ^d	0.46±0.06 ^e
D9C18 ratio	0.59±0.15*	0.54±0.16	0.47±0.05	0.71±0.18 ^f	0.39±0.03*	0.40±0.06	0.44±0.05	0.56±0.10 ^{c,e}	0.88±0.16	0.67±0.08 ^a	0.81±0.11	0.92±0.12 ^e
D9C16 ratio	0.04±0.01	0.05±0.01	0.04±0.01	0.05±0.01 ^c	0.03±0.00*	0.03±0.01	0.04±0.00	0.05±0.01 ^c	0.04±0.01*	0.04±0.01	0.05±0.00	0.07±0.02 ^{c,e}
D6D ratio	0.12±0.06*	0.08±0.02 ^a	0.10±0.02	0.10±0.02 ^{e,f}	0.11±0.01*	0.07±0.02 ^a	0.08±0.03	0.09±0.01 ^e	0.14±0.01*	0.06±0.02 ^a	0.11±0.05	0.12±0.01 ^{e,f}
D5D ratio	10.14±3.91*	8.81±2.39 ^a	7.66±2.74	10.07±1.92 ^{e,f}	8.83±1.07*	10.47±3.52 ^a	10.25±3.76	11.62±2.95 ^{e,f}	7.04±1.24*	9.38±1.61 ^a	8.65±3.83	9.35±1.47 ^{e,f}
ACL	18.87±0.10*	18.38±0.07	18.44±0.08	18.33±0.03 ^{c,f}	18.46±0.06	18.41±0.06	18.40±0.07	18.43±0.08	18.38±0.08*	18.48±0.04	18.31±0.09 ^d	18.37±0.09
DBI	236±12.18*	211±7.23	218±8.85	201±5.32 ^c	211±8.80	209±7.64	210±7.66	214±7.14	203±7.64	218±5.34	197±11.88 ^d	207±9.19
PI	228±12.33*	204±8.32	210±11.60	182±8.45 ^{c,f}	198±10.44	195±8.74	197±9.58	196±10.87	189±11.56*	208±5.91	181±14.01	188±11.72 ^{e,f}
SCD1ratio	0.25±0.05*	0.23±0.05	0.21±0.02	0.31±0.07 ^e	0.19±0.01*	0.19±0.03	0.20±0.02	0.26±0.04 ^{c,e}	0.36±0.02*	0.30±0.03 ^a	0.34±0.03	0.38±0.04 ^e
Elov6 ratio	4.09±0.75*	4.51±0.73	4.69±0.34	3.33±0.72 ^{e,f}	1.12±0.03*	1.04±0.08	0.99±0.08 ^b	1.06±0.04	1.16±0.17	1.15±0.03	1.12±0.05	1.07±0.11

Values are area per cent (mean ± SD of 6-8 mice/group); *significant difference during PHx among same diet using *Kruskal-Wallis* Anova by Ranks test; ^asignificant difference between the control and 1st day PHx using *Kruskal-Wallis* test: multiple comparisons of mean ranks for all groups ($P<0.05$); ^bsignificant difference between the control and 2nd day PHx using *Kruskal-Wallis* test: multiple comparisons of mean ranks for all groups ($P<0.05$); ^csignificant difference between the control and 7th day PHx using *Kruskal-Wallis* test: multiple comparisons of mean ranks for all groups ($P<0.05$); ^dsignificant difference between the 1st and 2nd day PHx using *Kruskal-Wallis* test: multiple comparisons of mean ranks for all groups ($P<0.05$); ^esignificant difference between the 1st day and 7th day PHx using *Kruskal-Wallis* test: multiple comparisons of mean ranks for all groups ($P<0.05$); ^fsignificant difference between the 2nd and 7th day PHx using *Kruskal-Wallis* test: multiple comparisons of mean ranks for all groups ($P<0.05$).