Supplemental Table 1. Diet formulations.

		0.06% die	t		0.2% diet			0.6% diet	
Ingredients	L	10	М	L	10	М	L	10	М
	gm	gm	gm	gm	gm	gm	gm	gm	gm
Casein	189.6	189.6	189.6	189.6	189.6	189.6	189.6	189.6	189.6
L-Cystine	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Corn Starch Maltodextrin	298.5	298.6	298.6	298.6	298.6	298.6	298.6	298.6	298.6
10	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
Sucrose	331.7	331.8	331.8	331.8	331.8	331.8	331.8	331.8	331.8
Cellulose	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
Soybean Oil	23.1	23.1	23.1	21.7	21.7	21.7	17.7	17.7	17.7
Lard	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
Linoleic acid	0.6	0.3	0	2.0	1.0	0	6.0	3.0	0
9,11 CLA	0	0	0.3	0	0	1.0	0	0	3.0
10,12 CLA	0	0.3	0.3	0	1.0	1.0	0	3.0	3.0
Mineral Mix S10026 DiCalcium	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
Phosphate Calcium	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
Carbonate	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
Potassium Citrate, 1 H ₂ O	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
Vitamin Mix V10001	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
Choline Bitartrate	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Total	1000	1000	1000	1000	1000	1000	1000	1000	1000

^{*}L, linoleic acid controls; 10, 10,12 CLA plus linoleic acid; M, 10,12 CLA plus 9,11 CLA.

Supplemental Table 2. Fat composition of the diet.

	0.06% diet				0.2% diet		0.6% diet		
Ingredients	L	10	М	L	10	М	L	10	М
	%	%	%	%	%	%	%	%	%
Soybean Oil	54.1	54.1	54.1	50.8	50.8	50.8	41.4	41.4	41.4
Lard	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
Linoleic acid	1.4	0.7	0	4.7	2.35	0	14.1	7.05	0
9,11 CLA	0	0	0.7	0	0	2.35	0	0	7.05
10,12 CLA	0	0.7	0.7	0	2.35	2.35	0	7.05	7.05

Data were expressed as a percentage of total fat. L, linoleic acid controls; 10, 10,12 CLA plus linoleic acid; M, 10,12 CLA plus 9,11 CLA.

Supplemental Table 3. Fatty acids analysis of the diets *...

0	.06% die	t	(0.2% diet		0.6% diet			
L	<u>10</u>	<u>M</u>	L	<u>10</u>	<u>M</u>	L	<u>10</u>	<u>M</u>	
0.027	0.033	0.017	0.027	0.033	0.027	0.028	0.023	0.024	
0.509	0.607	0.359	0.525	0.605	0.502	0.460	0.468	0.462	
0.032	0.038	0.021	0.033	0.038	0.032	0.033	0.029	0.029	
0.171	0.226	0.157	0.201	0.231	0.188	0.152	0.174	0.188	
0.800	0.987	0.606	0.858	0.972	0.827	0.704	0.766	0.746	
1.521	1.822	1.023	1.652	1.787	1.515	1.685	1.452	1.228	
0.004	0.006	0.005	0.004	0.006	0.005	0.004	0.004	0.004	
0.198	0.243	0.137	0.188	0.232	0.206	0.158	0.136	0.150	
0.005	0.005	0.016	0.008	0.006	0.069	0.005	0.013	0.225	
0.003	0.022	0.015	0.006	0.069	0.067	0.004	0.220	0.220	
0.003	0.005	0.004	0.004	0.006	0.005	0.003	0.003	0.004	
0.007	0.010	0.008	0.009	0.011	0.009	0.007	0.008	0.009	
0.010	0.013	0.009	0.011	0.014	0.011	0.009	0.011	0.011	
3.369	4.096	2.410	3.637	4.069	3.517	3.309	3.300	3.364	
	L 0.027 0.509 0.032 0.171 0.800 1.521 0.004 0.198 0.005 0.003 0.003 0.007	L 10 0.027 0.033 0.509 0.607 0.032 0.038 0.171 0.226 0.800 0.987 1.521 1.822 0.004 0.006 0.198 0.243 0.005 0.005 0.003 0.002 0.007 0.010 0.010 0.013	0.027 0.033 0.017 0.509 0.607 0.359 0.032 0.038 0.021 0.171 0.226 0.157 0.800 0.987 0.606 1.521 1.822 1.023 0.004 0.006 0.005 0.198 0.243 0.137 0.005 0.016 0.003 0.003 0.022 0.015 0.003 0.005 0.004 0.007 0.010 0.008 0.010 0.013 0.009	L 10 M L 0.027 0.033 0.017 0.027 0.509 0.607 0.359 0.525 0.032 0.038 0.021 0.033 0.171 0.226 0.157 0.201 0.800 0.987 0.606 0.858 1.521 1.822 1.023 1.652 0.004 0.006 0.005 0.004 0.198 0.243 0.137 0.188 0.005 0.016 0.008 0.003 0.022 0.015 0.006 0.003 0.005 0.004 0.004 0.007 0.010 0.008 0.009 0.010 0.013 0.009 0.011	L 10 M L 10 0.027 0.033 0.017 0.027 0.033 0.509 0.607 0.359 0.525 0.605 0.032 0.038 0.021 0.033 0.038 0.171 0.226 0.157 0.201 0.231 0.800 0.987 0.606 0.858 0.972 1.521 1.822 1.023 1.652 1.787 0.004 0.006 0.005 0.004 0.006 0.198 0.243 0.137 0.188 0.232 0.005 0.005 0.016 0.008 0.006 0.003 0.022 0.015 0.006 0.069 0.007 0.010 0.008 0.009 0.011 0.010 0.013 0.009 0.011 0.014	L 10 M L 10 M 0.027 0.033 0.017 0.027 0.033 0.027 0.509 0.607 0.359 0.525 0.605 0.502 0.032 0.038 0.021 0.033 0.038 0.032 0.171 0.226 0.157 0.201 0.231 0.188 0.800 0.987 0.606 0.858 0.972 0.827 1.521 1.822 1.023 1.652 1.787 1.515 0.004 0.006 0.005 0.004 0.006 0.005 0.198 0.243 0.137 0.188 0.232 0.206 0.005 0.005 0.016 0.008 0.006 0.069 0.003 0.022 0.015 0.006 0.069 0.067 0.003 0.005 0.004 0.004 0.006 0.005 0.007 0.010 0.008 0.009 0.011 0.009 0.01	L 10 M L 10 M L 0.027 0.033 0.017 0.027 0.033 0.027 0.028 0.509 0.607 0.359 0.525 0.605 0.502 0.460 0.032 0.038 0.021 0.033 0.038 0.032 0.033 0.171 0.226 0.157 0.201 0.231 0.188 0.152 0.800 0.987 0.606 0.858 0.972 0.827 0.704 1.521 1.822 1.023 1.652 1.787 1.515 1.685 0.004 0.006 0.005 0.004 0.006 0.005 0.004 0.198 0.243 0.137 0.188 0.232 0.206 0.158 0.005 0.005 0.016 0.008 0.006 0.069 0.005 0.003 0.022 0.015 0.006 0.069 0.007 0.004 0.007 0.010 0.008	L 10 M L 10 M L 10 0.027 0.033 0.017 0.027 0.033 0.027 0.028 0.023 0.509 0.607 0.359 0.525 0.605 0.502 0.460 0.468 0.032 0.038 0.021 0.033 0.038 0.032 0.033 0.029 0.171 0.226 0.157 0.201 0.231 0.188 0.152 0.174 0.800 0.987 0.606 0.858 0.972 0.827 0.704 0.766 1.521 1.822 1.023 1.652 1.787 1.515 1.685 1.452 0.004 0.006 0.005 0.004 0.006 0.005 0.004 0.006 0.005 0.004 0.006 0.005 0.013 0.005 0.006 0.008 0.006 0.069 0.005 0.013 0.003 0.022 0.015 0.006 0.069 0.067	

Data were expressed as fatty acid g / 100 g diet. L, linoleic acid controls; 10, 10,12 CLA plus linoleic acid; M, 10,12 CLA plus 9,11 CLA.
"C20:3 (n6), C20:3 (n3), C20:4, C20:5, C22:0, C22:1, C22:2, C22:3, C22:4, C22:6, and C24:1 were underdectable.

Supplemental Table 4. Fatty acid content of muscle.

mg/g		0.06% diet			0.2% diet			0.6% diet	
tissue	L	<u>10</u>	<u>M</u>	L	<u>10</u>	<u>M</u>	L	<u>10</u>	M
C12:0	0.03 ± 0.01	0.01 ± 0.00	0.02 ± 0.00	0.04 ± 0.02	0.02 ± 0.00	0.03 ± 0.00	0.02 ± 0.00	0.01 ± 0.00	0.01 ± 0.00
C14:0	0.63 ± 0.14^{a}	0.30 ± 0.02^{abc}	0.36 ± 0.04 ^{abc}	0.63 ± 0.19^{a}	0.48 ± 0.07 ^{ab}	0.67 ± 0.07^{a}	0.33 ± 0.05^{abc}	$0.07 \pm 0.01^{\circ}$	0.12 ± 0.04bc
C14:1	0.18 ± 0.05	0.08 ± 0.01	0.11 ± 0.02	0.15 ± 0.03	0.13 ± 0.02	0.18 ± 0.02	0.09 ± 0.02	0.01 ± 0.00	0.01 ± 0.00
C15:0	0.05 ± 0.01	0.03 ± 0.00	0.03 ± 0.00	0.04 ± 0.01	0.04 ± 0.01	0.05 ± 0.00	0.03 ± 0.00	0.02 ± 0.00	0.02 ± 0.00
C16:0	6.0 ± 1.5^{a}	3.2 ± 0.2^{ab}	3.4 ± 0.3^{ab}	5.1 ± 0.9^{a}	3.8 ± 0.4^{ab}	4.7 ± 0.4^{ab}	3.4 ± 0.3^{ab}	1.6 ± 0.1^{b}	2.9 ± 1.1ab
C16:1	5.1 ± 1.1	2.5 ± 0.2	3.1 ± 0.4	4.4 ± 0.8	3.8 ± 0.6	5.0 ± 0.5	2.8 ± 0.4	0.4 ± 0.1	0.8 ± 0.3
C17:1	0.08 ± 0.01	0.04 ± 0.00	0.05 ± 0.01	0.07 ± 0.01	0.07 ± 0.01	0.08 ± 0.01	0.05 ± 0.01	0.01 ± 0.00	0.03 ± 0.01
C18:0	0.77 ± 0.23	0.8 ± 0.04	0.60 ± 0.03	0.68 ± 0.04	0.56 ± 0.05	0.59 ± 0.03	0.67 ± 0.03	0.54 ± 0.02	0.56 ± 0.09
C18:1c	8.1 ± 2.0	3.8 ± 0.3	4.5 ± 0.5	5.5 ± 0.7	5.4 ± 0.7	6.8 ± 0.8	4.3 ± 0.5	1.5 ± 0.1	3.5 ± 1.5
C18:2c	4.5 ± 1.1	2.0 ± 0.2	2.4 ± 0.3	3.1 ± 0.5	2.8 ± 0.4	3.6 ± 0.4	2.5 ± 0.4	0.7 ± 0.1	0.9 ± 0.2
C18:2t	0.03 ± 0.01	0.01 ± 0.00	0.01 ± 0.00	0.01 ± 0.00	0.03 ± 0.01	0.01 ± 0.00	0.01 ± 0.00	0.01 ± 0.00	0.02 ± 0.01
9,11 CLA	0.07 ± 0.01 ^b	0.03 ± 0.00^{b}	0.05 ± 0.01 ^b	0.05 ± 0.01 ^b	0.05 ± 0.01 ^b	0.14 ± 0.03^{a}	0.03 ± 0.00^{b}	0.01 ± 0.00 ^b	0.06 ± 0.02^{b}
10,12 CLA	0.04 ± 0.01^{b}	0.02 ± 0.00ab	0.03 ± 0.00ab	0.02 ± 0.00ab	0.06 ± 0.01^{a}	0.06 ± 0.01^{a}	0.02 ± 0.00ab	0.03 ± 0.00ab	0.04 ± 0.01^{b}
C18:3n3	0.33 ± 0.09	0.12 ± 0.01	0.15 ± 0.02	0.28 ± 0.09	0.17 ± 0.03	0.21 ± 0.03	0.13 ± 0.03	0.03 ± 0.01	0.04 ± 0.01
C18:3n6	0.08 ± 0.02	0.05 ± 0.00	0.05 ± 0.00	0.05 ± 0.01	0.06 ± 0.02	0.05 ± 0.00	0.05 ± 0.00	0.05 ± 0.00	0.06 ± 0.01
C20:1	0.07 ± 0.02	0.04 ± 0.00	0.04 ± 0.00	0.05 ± 0.01	0.06 ± 0.01	0.06 ± 0.01	0.04 ± 0.00	0.03 ± 0.00	0.05 ± 0.02
C20:2	0.08 ± 0.03	0.04 ± 0.00	0.04 ± 0.00	0.05 ± 0.01	0.09 ± 0.04	0.05 ± 0.00	0.04 ± 0.00	0.03 ± 0.01	0.04 ± 0.01
C20:3n6	0.08 ± 0.05	0.05 ± 0.00	0.03 ± 0.00	0.05 ± 0.00	0.04 ± 0.01	0.04 ± 0.00	0.04 ± 0.00	0.03 ± 0.00	0.04 ± 0.01
C20:4n6	0.80 ± 0.46	0.57 ± 0.03	0.38 ± 0.03	0.62 ± 0.06	0.37 ± 0.04	0.43 ± 0.02	0.58 ± 0.06	0.39 ± 0.02	0.42 ± 0.06
C22:5	0.13 ± 0.03	0.17 ± 0.01	0.12 ± 0.01	0.14 ± 0.03	0.12 ± 0.02	0.14 ± 0.01	0.21 ± 0.02	0.17 ± 0.02	0.16 ± 0.03
C22:6n3	0.62 ± 0.26	0.54 ± 0.04	0.39 ± 0.05	0.65 ± 0.07	0.33 ± 0.05	0.42 ± 0.33	0.59 ± 0.08	0.31 ± 0.02	0.32 ± 0.05
C24:0	0.04 ± 0.01	0.06 ± 0.01	0.04 ± 0.00	0.06 ± 0.01	0.04 ± 0.01	0.05 ± 0.01	0.06 ± 0.01	0.04 ± 0.00	0.04 ± 0.01
SAT	7.5 ± 1.8	4.4 ± 0.2	4.5 ± 0.3	6.6 ± 1.1	5.0 ± 0.5	6.1 ± 0.5	4.5 ± 0.4	2.3 ± 0.1	3.6 ± 1.2
MUFA	13.4 ± 2.7	6.5 ± 0.5	7.9 ± 0.9	9.6 ± 1.2	9.4 ± 1.3	12.1 ± 1.3	7.2 ± 0.1	2.0 ± 0.2	4.4 ± 1.9
PUFA	6.8 ± 1.9	3.6 ± 0.3	3.6 ± 0.4	4.7 ± 0.6	4.1 ± 0.5	5.1 ± 0.5	4.2 ± 0.5	1.8 ± 0.1	2.1 ± 0.4

Means \pm SEM, not sharing a common letter within the same row differ (p<0.05). L, linoleic acid controls; 10, 10,12 CLA plus linoleic acid; M, 10,12 CLA plus 9,11 CLA.

Supplemental Table 5. The effects of CLA on body weight gain (BWG), food intake (FI), food conversion efficiency (FCE), fasting blood glucose (BG), glucose tolerance test (GTT) area under the curve (AUC), fasting insulin, and HOMA-IR index.

Diets	Total BWG (g)	Total FI (per cage, g)	FCE (per cage)	Fasting BG (mg/dL)	GTT AUC	Fasting insulin (ng/mL)	HOMA-IR index
Туре	< 0.0001	0.0003	< 0.0001	0.3661	0.7136	0.7590	0.9649
Dose	< 0.0001	0.9844	< 0.0001	0.2580	0.5534	0.0640	0.0378
Interacti -on	< 0.0001	0.6104	0.0016	0.1085	0.5043	0.0412	0.0956
0.06 L	5.7 ± 0.1 ab	276 ± 3.0	$25.1 \pm 1.5^{\circ}$	78.1 ± 3.8	23640 ± 808	0.51 ± 0.11^{ab}	2.35 ± 0.55
0.06 10	5.5± 0.1 ^{abc}	265 ± 3.9	$24.2\pm0.9^{\scriptscriptstyle b}$	74.8 ± 2.6	23344 ± 919	$0.39 \pm 0.05^{\circ}$	1.69 ± 0.21
0.06 M	5.0 ± 0.2^{abc}	269 ± 4.1	$28.3\pm2.4^{\scriptscriptstyle b}$	73.4 ± 3.8	21418 ± 995	$0.53\pm0.09^{\scriptscriptstyle ab}$	2.31 ± 0.48
0.2 L	$6.2\pm0.2^{\text{a}}$	280 ± 2.4	$22.8 \pm 1.3^{\circ}$	79.8 ± 2.1	23112 ± 1124	0.60 ± 0.11^{ab}	2.85 ± 0.54
0.2 10	$3.9\pm0.1^{\text{cde}}$	261 ± 4.7	$33.6\pm1.4^{\scriptscriptstyle b}$	75.6 ± 4.7	24082 ± 1000	$0.44\pm0.08^{\scriptscriptstyle ab}$	1.96 ± 0.37
0.2 M	$4.4\pm0.1^{\text{bcd}}$	270 ± 2.2	$31.2 \pm 1.6^{\circ}$	78.5 ± 4.0	23230 ± 1084	$0.47\pm0.06^{\tiny ab}$	2.22 ± 0.35
0.6 L	6.4± 0.1ª	282 ± 2.1	$22.2\pm0.8^{\scriptscriptstyle b}$	74.6 ± 2.8	22193 ± 469	$0.49\pm0.09^{\scriptscriptstyle ab}$	2.28 ± 0.50
0.6 10	$2.8\pm0.1^{\text{de}}$	262 ± 2.5	52.1 ± 5.2°	77.9 ± 4.8	22436 ± 1126	0.94 ± 0.21^{a}	4.20 ± 0.98
0.6 M	2.6± 0.1°	264 ± 2.3	$53.7\pm4.7^{\text{a}}$	89.5 ± 4.9	23194 ± 1350	$0.60\pm0.09^{\scriptscriptstyle ab}$	3.18 ± 0.64

Means \pm SEM without a common letter in the same column differ (p<0.05). L, linoleic acid controls; 10, 10,12 CLA plus linoleic acid; M, 10,12 CLA plus 9,11 CLA.

Supplemental Table 6. Probability levels for the main effects of fatty acid type and dose and their interactions for the experimental outcomes.

Dependent variable	Туре	Dose	Interaction		ependent riable	Туре	Dose	Interaction
Fig 1				Fic	7A			
ĔΡΙ	< 0.0001	< 0.0001	< 0.0001		PARγ	< 0.0001	< 0.0001	< 0.0001
ING	< 0.000	< 0.0001	< 0.0001		Perilipin	< 0.0001		< 0.0001
MEN	< 0.0001	< 0.0001	0.0007		ABP4	< 0.0001		< 0.0001
RET	< 0.0001	< 0.0001	0.0002					
Total WAT	< 0.000	< 0.0001	< 0.0001		HSL	0.0004		< 0.0001
BAT	< 0.0001	< 0.0001	0.0002		ATGL	0.0007	< 0.0001	< 0.0001
Fig 2B				100	7B			
Liver Weight		< 0.0001		F	$PPAR\gamma$	0.8922	< 0.0001	0.0002
Liver TG	< 0.0001	< 0.0001	< 0.0001	F	Perilipin	< 0.0001	< 0.0001	< 0.0001
Fig 3				F	ABP4	0.0039	0.0173	< 0.0001
MCP1		< 0.0001		H	HSL	0.0398	< 0.0001	0.0012
IL6	< 0.0001		0.0019		ATGL	0.7346	< 0.0001	
Serum TG	< 0.0001	< 0.0001	< 0.0001		8A	011 0 10	0.0001	0.00
Fig 4A					GPR120	< 0.0001	0.313	< 0.0001
UCP1		< 0.0001			SPR40	0.0443	0.3533	0.0132
Elovl3		0.0001				0.0443	0.3333	0.0132
Cidea		< 0.0001			9 8B	0.5004	0.0004	0.0004
CPT1b		< 0.0001			GPR120	0.5264		< 0.0001
Cox8b		< 0.0001			GPR40	< 0.0001	< 0.0001	0.0433
PPARα		< 0.0001			ppl Fig 1			
COX2		< 0.0001		l	JCP1	0.8595	0.0022	0.1126
PGF2α	< 0.000	I < 0.0001	< 0.0001	E	Elovl3	< 0.0001	< 0.0001	< 0.0001
synthase	. 0 000	0 0004	- 0.0004	(Cidea	0.0792	< 0.0001	< 0.0001
TMEM26	< 0.000	< 0.0001	< 0.0001		CPT1b	0.0012	< 0.0001	
Fig 4B	0.0040	- 0 0001	- 0.0004		Cox8b			< 0.0001
UCP1 Elovl3	0.0012 0.0629	0.0001	< 0.0001 < 0.0001		PPARα	0.0033		< 0.0001
Cidea	0.0629		< 0.0001		COX2	0.0013		< 0.0001
CPT1b	0.0002		< 0.0001					
Cox8b		0.0001			PGF2α	< 0.0001	0.0011	0.0422
PPARα		I < 0.0019		-	nthase			
COX2		0.0003			MEM26	< 0.001	< 0.001	< 0.001
PGF2α		I < 0.0003		Su	ppl Fig 2			
synthase	0.000	0.0001	0.0001	1	MCP1	< 0.0001	< 0.0001	< 0.0001
TMEM26	< 0.000	I < 0.0001	0.0175	-	ΓNFa	< 0.0001	< 0.0001	< 0.0001
Fig 6A	\ 0.000	0.0001	0.0175	F	-4/80	< 0.0001	< 0.0001	< 0.0001
MCP1	< 0.0001	I < 0.0001	< 0.0001		L6	< 0.0001	< 0.0001	< 0.0001
$TNF\alpha$		< 0.0001			Arginase 1		< 0.0001	
F4/80		< 0.0001			Arc 1		< 0.0001	
IL6		I < 0.0001						
Arginase 1		I < 0.0001			Clec 10	< 0.0001	0.036	0.0164
Mrc 1		< 0.0001			ppl Fig 3	0.0400	0.0004	0.0004
Clec 10		< 0.0001			PPARg	0.0466		< 0.0001
Fig 6B	0.000	0.0001	0.0001		Perilipin		< 0.0001	
MCP1	< 0.0001	< 0.0001	< 0.0001		ABP4	0.0003		< 0.0001
$TNF\alpha$		< 0.0001		H	HSL	0.0631	< 0.0001	0.0001
F4/80		< 0.0001		A	ATGL	0.0368	< 0.0001	0.0022
IL6	< 0.0001		0.0003	Su	ppl Fig 4			
Arginase 1	0.2374		0.4565		3PR120	< 0.0001	< 0.0001	< 0.0001
Mrc 1	< 0.0001		< 0.0001		SPR40	0.0044	0.0229	0.0635
Clec 10	< 0.0001		0.0028			0.0011		

Supplemental Fig. 1. Differential effects of CLA dose and treatments on markers of browning in retroperitoneal (RET) WAT. Panel A; direct markers of browning. Panel B; markers of prostaglandin production that are associated with the activation of browning. mRNA levels of markers of brown fat-like adipocytes were measured in RET WAT by real time qPCR. Means ± SEM without a common letter differ (P<0.05). L, linoleic acid; 10, 10,12 CLA plus linoleic acid; M, 10,12 CLA plus 9,11 CLA; UCP-1, uncoupling protein 1; Elovl3, elongation of very long chain fatty acids 3; Cidea, cell death-induced DNA fragmentation factor-a-like effector A; CPT-1b, carnitine palmitoyltransferase 1 b; Cox8b, cytochrome c oxidase subunit VIII b; PPARα, proliferator-activated receptor alpha; TMEM26, transmembrane protein 26; COX-2, cyclooxygenase-2; PGF2α,prostaglandin F2 alpha.

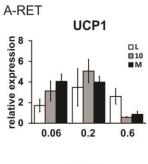
Supplemental Fig. 2. Intermediate and high dose of CLA treatments increase marker of low grade inflammation in retroperitoneal (RET) WAT. Panel A; markers of classically-activated M1 macrophage. Panel B; markers of alternatively-activated M2 macrophage. mRNA levels of markers of low grade inflammation were measured in RET WAT by real time qPCR. Means ± SEM without a common letter differ (P<0.05). L, linoleic acid; 10, 10,12 CLA plus linoleic acid; M, 10,12 CLA plus 9,11 CLA; COX-2, cyclooxygenase 2; MCP-1, monocyte chemoattractant protein 1; IL-6, interleukin 6; TNFα = tumor necrosis factor alpha

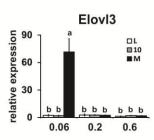
Supplemental Fig. 3. Differential effects of CLA dose and treatments on markers of lipogenesis and lipolysis in retroperitoneal (RET) WAT. mRNA levels of markers of lipogenesis (Panel A) and lipolysis (Panel B) were measured in RET WAT by real time qPCR. Means \pm SEM without a common letter differ (P<0.05). L, linoleic acid; 10, 10,12 CLA plus linoleic acid; M, 10,12

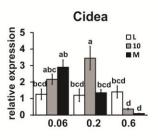
CLA plus 9,11 CLA; PPARα, peroxisome proliferator-activated receptor alpha; FABP4, fatty acid binding protein 4,; HSL, hormone sensitive lipase; ATGL, adipose tissue TG lipase.

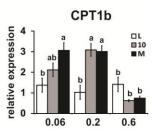
Supplemental Fig. 4. FFA receptors GPR120 and 40 in retroperitoneal (RET) WAT are differentially regulated by CLA. mRNA levels of markers of GPR 120 and 40 were in RET WAT measured by real time qPCR. Means \pm SEM without a common letter differ (P<0.05). L, linoleic acid; 10, 10,12 CLA plus linoleic acid; M, 10,12 CLA plus 9,11 CLA; GPR, G protein receptor

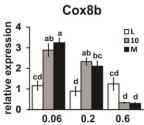
Supplemental Fig 1.

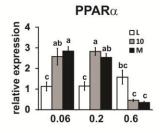


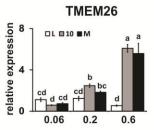


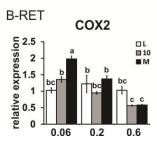


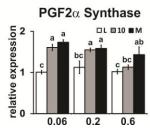




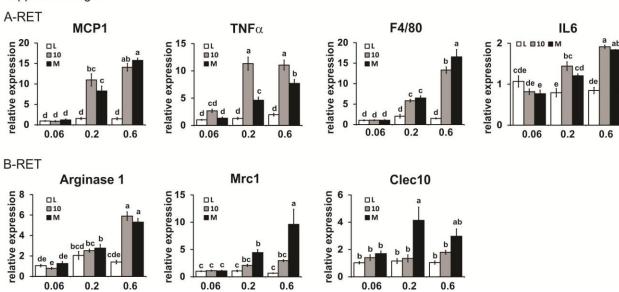






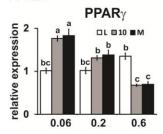


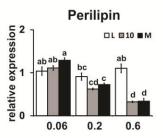
Suppmental Fig 2.

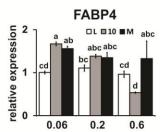


Supplemental Fig 3.

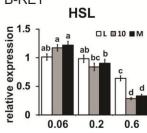


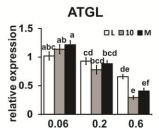












Supplemental Fig 4.

