Strength training alters the tissue fatty acids profile and slightly improves the thermogenic pathway in the adipose tissue of obese mice

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Additional Material

Strength training alters the tissue fatty acids profile and slightly improves the thermogenic pathway in the adipose tissue of obese mice

The additional material corresponds to the RT-PCR analysis of the genes involved in the browning process of the subcutaneous adipose tissue. The data that were removed correspond to outliers that were identified after the statistical test (when using the ROUT method or when using the GRUBBS analysis).

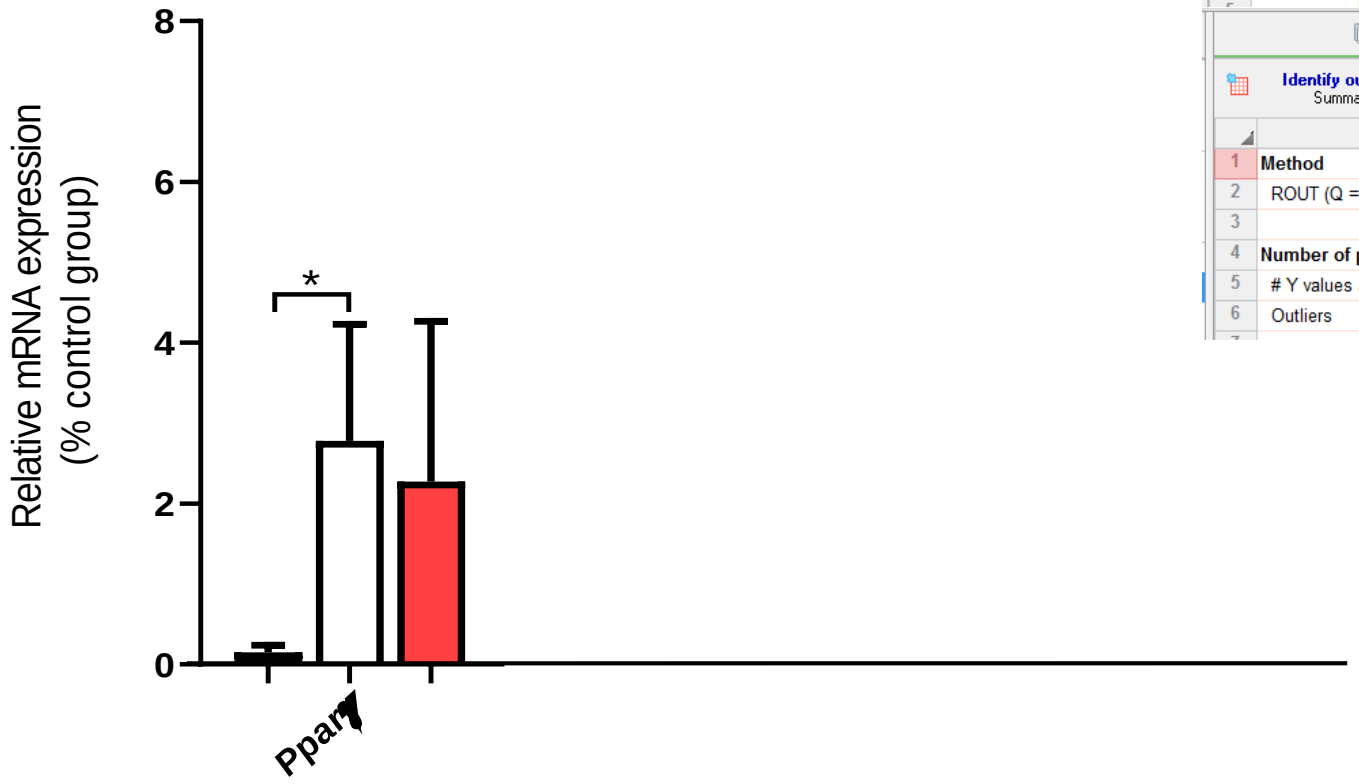
Additional Material

BEFORE ANALISYS

Group A	Group B	Group C
Data Set-A	Pparγ	Data Set-C
0.20	2.64	1.92
0.07	1.67	2.14
0.13	4.87	4.93
0.14	1.94	0.10
6.11		
0.07		
0.30		

AFTER ANALISYS

	Group A	Group B	Group C
	Data Set-A	Pparγ	Data Set-C
1	0.20	2.64	1.92
2	0.07	1.67	2.14
3	0.13	4.87	4.93
4	0.14	1.94	0.10
5	6.11*		
6	0.07		
7	0.30		



Cleaned data | Outliers | Summary

	A	B	C
		Pparγ	
1	0.200	2.640	1.920
2	0.070	1.670	2.140
3	0.130	4.870	4.930
4	0.140	1.940	0.100
5			
6	0.070		
7	0.300		

Cleaned data | Outliers | Summary

	A	B	C
		Pparγ	
1	#5	6.110	
2			
3			
4			

Cleaned data | Outliers | Summary

Identify outliers
Summary

	A	B	C
		Pparγ	
1	Method		
2	ROUT (Q = 1%)		
3			
4	Number of points		
5	# Y values analyzed	7	4	4
6	Outliers	1	0	0

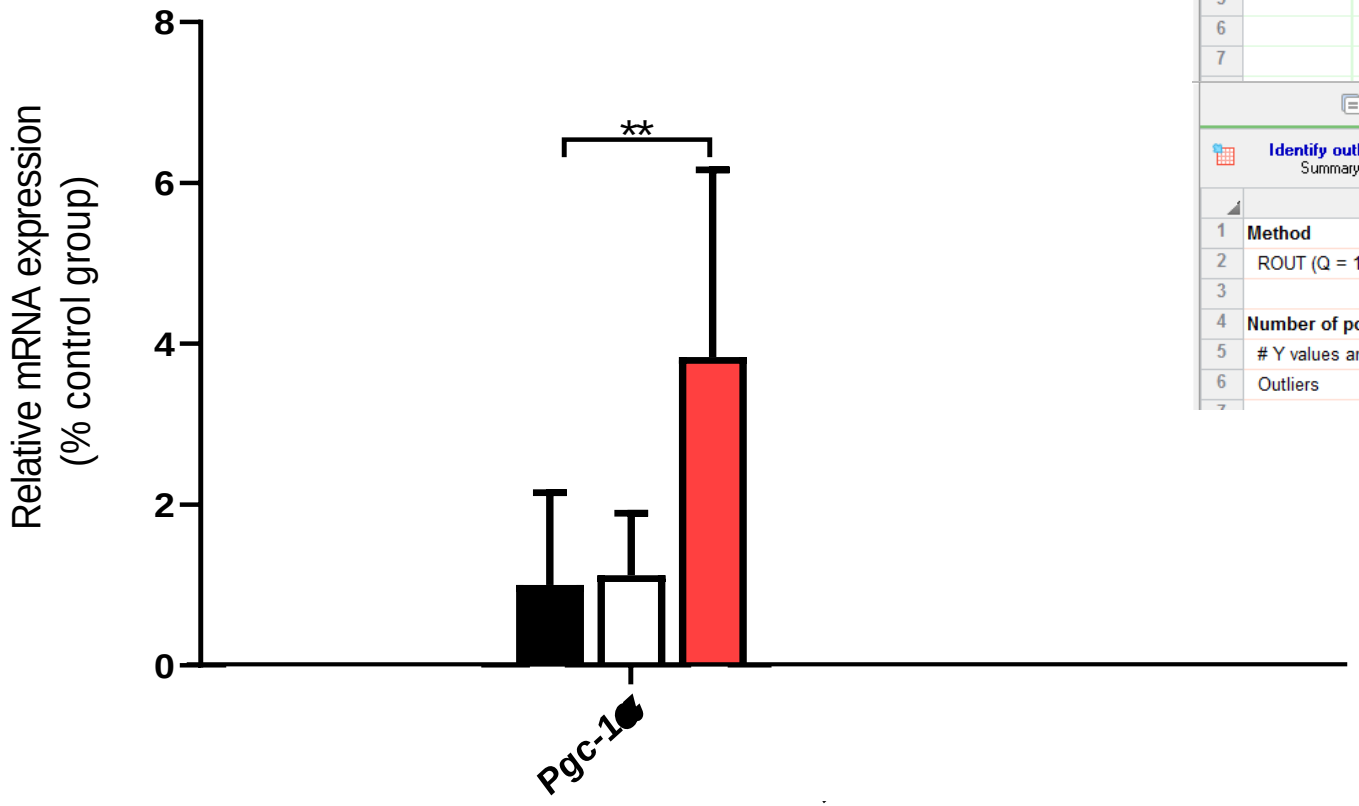
IDENTIFY OUTLIERS OF PPARgamma

BEFORE ANALISYS

	Group E	Group F	Group G
	Data Set-E	*Pgc-1α*	Data Set-G
1	0.38	0.70	0.70
2	0.21	1.87	5.89
3	3.13	1.66	3.48
4	2.06	0.25	5.27
5	0.39		
6	0.73		
7	0.10		

AFTER ANALISYS

	Group E	Group F	Group G
	Data Set-E	*Pgc-1α*	Data Set-G
1	0.38	0.70	0.70
2	0.21	1.87	5.89
3	3.13	1.66	3.48
4	2.06	0.25	5.27
5	0.39		
6	0.73		
7	0.10		



Cleaned data | Outliers | Summary

	A	B	C	D	E	F	G	H	I	J	K
		Pgc-1α									
1	0.380	0.700	0.700								
2	0.210	1.870	5.890								
3	3.130	1.660	3.480								
4	2.060	0.250	5.270								
5	0.390										
6	0.730										
7	0.100										

Cleaned data | Outliers | Summary

	A	B	C	D	E	F	G	H	I	J	K
		Pgc-1α									
1											
2											
3											
4											
5											
6											
7											

Cleaned data | Outliers | Summary

Identify outliers
Summary

	A	B	C	D	E	F	G	H	I	J
		Pgc-1α								
1	**Method**									
2	ROUT (Q = 1%)									
3										
4	**Number of points**									
5	# Y values analyzed	7	4	4						
6	Outliers	0	0	0						

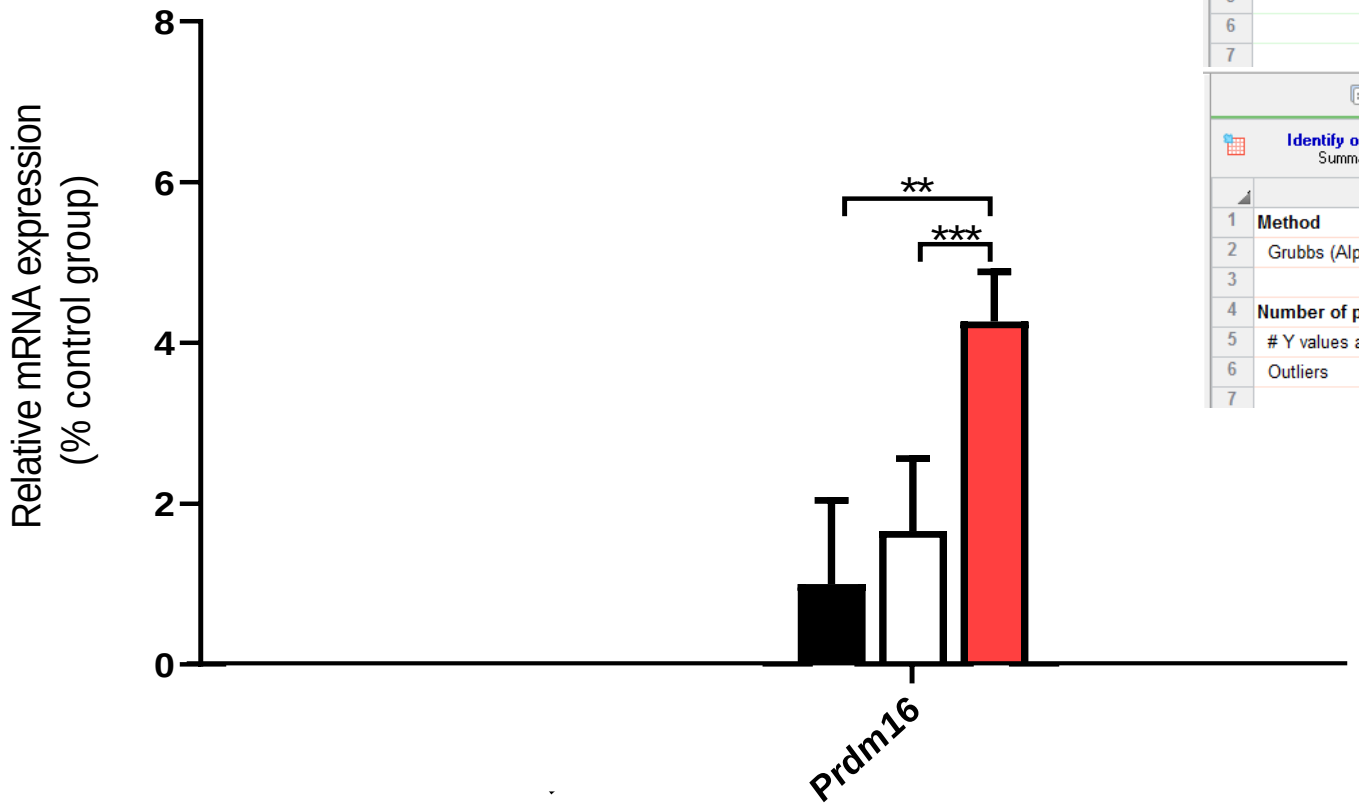
IDENTIFY OUTLIERS OF PGC-1alpha

BEFORE ANALISYS

	Group I	Group J	Group K
	Data Set-I	***Prdm16***	Data Set-K
1	0.33	1.44	4.26
2	2.72	2.65	5.14
3	2.07	11.78	3.81
4	0.12	0.89	3.85
5	1.25		
6	0.28		
7	0.24		
8			

AFTER ANALISYS

	Group I	Group J	Group K
	Data Set-I	***Prdm16***	Data Set-K
1	0.33	1.44	4.26
2	2.72	2.65	5.14
3	2.07	*11.78**	3.81
4	0.12	0.89	3.85
5	1.25		
6	0.28		
7	0.24		
8			



Cleaned data | Outliers | Summary

	A	B	C	D	E	F	G	H	I	J	K
		Prdm16									
1	0.330	1.440	4.260								
2	2.720	2.650	5.140								
3	2.070		3.810								
4	0.120	0.890	3.850								
5	1.250										
6	0.280										
7	0.240										
8											

Cleaned data | Outliers | Summary

	A	B	C	D	E	F	G	H	I	J	K
		Prdm16									
1	#3	11.780									
2											
3											
4											
5											
6											
7											

Cleaned data | Outliers | Summary

Identify outliers
Summary

	A	B	C	D	E	F	G	H	I	J
		Prdm16								
1	**Method**									
2	Grubbs (Alpha = 0.05)	G = 1.653	G = 1.484	G = 1.416						
3										
4	**Number of points**									
5	# Y values analyzed	7	4	4						
6	Outliers	0	1	0						
7										

IDENTIFY OUTLIERS OF PRDM16

BEFORE ANALISYS

	Group M	Group N	Group O
	Data Set-M	*Ucp1*	Data Set-O
1	2.71	0.61	1.38
2	0.05	0.64	3.58
3	3.31	0.49	2.29
4	0.01	0.83	46.90
5	0.33		
6	0.28		
7	0.31		
8			

AFTER ANALISYS 1

	Group M	Group N	Group O
	Data Set-M	*Ucp1*	Data Set-O
1	2.71	0.61	1.38
2	0.05	0.64	3.58
3	*3.31**	0.49	2.29
4	0.01	0.83	*46.90**
5	0.33		
6	0.28		
7	0.31		
8			

Cleaned data | Outliers | Summary

	A	B	C
		Ucp1	
1	2.710	0.610	1.380
2	0.050	0.640	3.580
3		0.490	2.290
4	0.010	0.830	
5	0.330		
6	0.280		
7	0.310		
8			

Cleaned data | Outliers | Summary

	A	B	C
		Ucp1	
1	#3	3.310	
2	#4		46.900
3			
4			
5			
6			
7			
8			

Cleaned data | Outliers | Summary

Identify outliers
Summary

	A	B	C
		Ucp1	
1	**Method**		
2	ROUT (Q = 1%)		
3			
4	**Number of points**		
5	# Y values analyzed	7	4	4
6	Outliers	1	0	1
7			
8			

IDENTIFY OUTLIERS OF UCP1

BEFORE ANALISYS

	Group M	Group N	Group O
	Data Set-M	*Ucp1*	Data Set-O
1	2.71	0.61	1.38
2	0.05	0.64	3.58
3	3.31	0.49	2.29
4	0.01	0.83	46.90
5	0.33		
6	0.28		
7	0.31		
8			

AFTER ANALISYS 2

	Group M	Group N	Group O
	Data Set-M	*Ucp1*	Data Set-O
1	*2.71**	0.61	1.38
2	0.05	0.64	3.58
3	*3.31**	0.49	2.29
4	0.01	0.83	*46.90**
5	0.33		
6	0.28		
7	0.31		
8			

Cleaned data | Outliers | Summary

	A	B	C
		Ucp1	
1		0.610	1.380
2	0.050	0.640	3.580
3		0.490	2.290
4	0.010	0.830	
5	0.330		
6	0.280		
7	0.310		
8			

Cleaned data | Outliers | Summary

	A	B	C
		Ucp1	
1	#1	2.710	
2			
3			
4			
5			
6			
7			
8			

Cleaned data | Outliers | Summary

Identify outliers
Summary

	A	B	C
		Ucp1	
1	**Method**		
2	ROUT (Q = 1%)		
3			
4	**Number of points**		
5	# Y values analyzed	6	4	3
6	Outliers	1	0	0
7				
8				

IDENTIFY OUTLIERS OF UCP1