

CORRECTION

Correction: Does growth path influence beef lipid deposition and fatty acid composition?

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In the Funding section, the individual fellowship number to A. S. C. is listed incorrectly. The correct fellowship number is: SFRH/BD/61068/2009.

There is an error in first sentence of the “Differential expression genes” section of the Results. The correct sentence is: “In a previous study, genes involved in cytoskeleton and extra-cellular matrix were down-regulated in skeletal muscle after nutritional restriction [7]. After a period of feed restriction followed by re-feeding, the main differential expression genes in Alentejana bulls were related to biological processes associated with lipid metabolism, nucleic acid metabolism, small molecule biochemistry, molecular transport and post-translational modifications (Table 3).”

There is an error in reference 1. The correct reference is: Hornick JL, Van Eenaeme C, Clinquart A, Diez M, Istasse L. Different periods of feed restriction before compensatory growth in Belgian Blue bulls: I. Animal performance, nitrogen balance meat characteristics, and fat composition. *Journal of Animal Science*. 1998; 76:249–59. pmid:9464906

In [Table 2](#), the fourth column is mistakenly included. Please see the correct [Table 2](#) here.

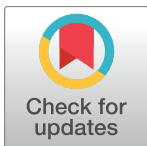


Table 2. Intramuscular fat (IMF, g/100g meat), total fatty acids (total FA, g/100g muscle) and fatty acid composition (% of total FA) of muscle in continuous growth (CG) and discontinuous growth (DG).

	Group		P-value
	CG (n = 20)	DG (n = 16)	
IMF	1.87±0.15	1.93±0.17	0.807
Total FA	1.46±0.12	1.60±0.13	0.437
<i>Fatty acids</i>			
14:0	2.15±0.11	2.06±0.10	0.608
14:1c9	0.32±0.03	0.36±0.03	0.404
i-15:0	0.09±0.005	0.06±0.004	<0.001
a-15:0	0.15±0.006	0.12±0.005	0.009
15:0	0.29±0.01	0.32±0.01	0.183
i-16:0	0.13±0.007	0.11±0.007	0.017
16:0	24.1±0.4	23.6±0.3	0.362
16:1c7	0.17±0.003	0.18±0.006	0.237
16:1c9	2.57±0.13	2.76±0.15	0.376
i-17:0	0.35±0.03	0.31±0.02	0.200
a-17:0	0.51±0.03	0.43±0.02	0.033
17:0	0.96±0.03	1.01±0.03	0.266
17:1c9	0.60±0.02	0.79±0.03	<0.001
i-18:0	0.10±0.004	0.09±0.003	0.187
18:0	17.9±0.4	15.3±0.4	<0.001

(Continued)

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Table 2. (Continued)

	Group		P-value
	CG (n = 20)	DG (n = 16)	
18:1t6+t8	0.16±0.01	0.19±0.01	0.052
18:1t9	0.20±0.01	0.26±0.02	0.010
18:1t10	0.52±0.07	1.91±0.34	<0.001
18:1t11	0.53±0.03	0.40±0.02	0.003
18:1c9	29.6±0.8	29.3±0.8	0.731
18:1c11	1.68±0.06	1.93±0.07	0.003
18:1c12	0.33±0.04	0.30±0.04	0.658
18:1c13	0.14±0.009	0.19±0.01	0.004
18:1t16+c14	0.13±0.004	0.09±0.006	<0.001
18:1c15	0.04±0.04	0.05±0.04	0.087
18:2n-6	9.99±0.59	9.95±0.55	0.967
18:3n-3	0.43±0.02	0.41±0.02	0.471
18:3n-6	0.05±0.005	0.08±0.006	<0.001
20:0	0.11±0.003	0.09±0.002	0.005
20:1c11	0.04±0.002	0.04±0.002	0.984
CLA(c9t11)	0.09±0.008	0.10±0.009	0.722
20:2n-6	0.08±0.004	0.08±0.004	0.169
20:3n-9	0.11±0.01	0.11±0.009	0.566
20:3n-3	0.02±0.001	0.03±0.002	0.157
20:4n-6	2.75±0.19	3.35±0.25	0.057
20:5n-3	0.13±0.02	0.14±0.02	0.491
22:0	0.48±0.03	0.66±0.05	0.003
22:4n-6	0.31±0.02	0.38±0.03	0.029
22:5n-3	0.35±0.03	0.41±0.03	0.198
22:6n-3	0.03±0.004	0.05±0.004	0.026
<i>Partial sums</i>			
SFA	46.0±0.7	43.1±0.6	0.002
cisMUFA	35.5±0.8	35.9±0.8	0.765
TFA	1.64±0.10	2.95±0.33	0.001
BCFA	1.34±0.07	1.13±0.05	0.013
PUFA	14.2±0.8	15.0±0.8	0.529
n-3	0.53±0.05	0.62±0.05	0.199
n-6	13.2±0.8	13.9±0.8	0.550
<i>Desaturation indices</i>			
ID14	12.7±0.7	14.6±0.8	0.086
ID16	9.39±0.30	10.7±0.38	0.016
ID17	38.1±0.1	44.3±0.2	<0.001
ID18	61.6±0.7	66.0±0.9	<0.001
IDCLA	15.1±1.1	20.1±1.6	0.017

IMF = intramuscular fat; FA = fatty acids; SFA = saturated fatty acids (sum of 14:0, 15:0, 16:0, 17:0, 18:0 and 20:0); cisMUFA = monounsaturated fatty acids (sum of 14:1c9, 16:1c7, 16:1c9, 17:1c9, 18:1c9, 18:1c11, 18:1c12, 18:1c13, 18:1c15, 19:1 and 20:1c11); TFA = trans fatty acids (sum of 18:1t6-t8, 18:1t9, 18:1t10, 18:1t11, 18:1t12, 18:1t16, c14 and 18:2t11c15); BCFA = branched chain fatty acids (sum of i-14:0, i-15:0, a-15:0, i-16:0, i-17:0, a-17:0 and i-18:0 (a- = anteiso i- = iso)); PUFA = polyunsaturated fatty acids (sum of 18:2n-6, 18:3n-6, 18:3n-3, CLA, 20:3n-3, 20:5n-3, 22:5n-3, 22:6n-3; 20:2n-6, 20:4n-6 and 22:4n-6); n-3 = sum of 18:3n-3, 20:3n-3, 20:5n-3, 22:5n-3 and 22:6n-3; n-6 = sum of 18:2n-6, 18:3n-6, 20:2n-6, 20:4n-6 and 22:4n-6; ID14:0 = (14:1c9×100)/(14:0+14:1c9); ID16:0 = (16:1c9×100)/(16:0+16:1c9); ID18:0 = (18:1c9×100)/(18:0+18:1c9); IDCLA = (18:2c9,t11×100)/(18:1t11+18:2c9,t11). Means in the same row with different superscripts are statistically different (P<0.05).

<https://doi.org/10.1371/journal.pone.0201997.t001>

Reference

1. Costa ASH, Costa P, Alves SP, Alfaia CM, Prates JAM, Vleck V, et al. (2018) Does growth path influence beef lipid deposition and fatty acid composition? PLoS ONE 13(4): e0193875. <https://doi.org/10.1371/journal.pone.0193875> PMID: 29614102