

## Corrigendum

# Effects of the acid–base treatment of corn on rumen fermentation and microbiota, inflammatory response and growth performance in beef cattle fed high-concentrate diet – CORRIGENDUM

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**Keywords:** hydrochloric acid, sodium bicarbonate, ruminal bacteria, lipopolysaccharide, steer, corrigendum

The original publication contained an error in Table 3. The corrected version of Table 3 is shown here;

**Table 3** The plasma acute phase protein (APP) and proinflammatory cytokine levels in beef cattle fed different diets

Item	Diets <sup>1</sup>			SEM	P-values
	LCD	HCD	HCDT		
APP					
LBP (µg/ml)	298 <sup>a</sup>	324 <sup>b</sup>	309 <sup>ab</sup>	5.1	0.013
SAA (µg/ml)	13.7 <sup>A</sup>	15.3 <sup>B</sup>	13.9 <sup>A</sup>	0.24	0.006
CRP (mg/l)	9.4 <sup>a</sup>	11.0 <sup>b</sup>	9.8 <sup>ab</sup>	0.26	0.035
Hp (µg/ml)	1809 <sup>a</sup>	2119 <sup>b</sup>	1798 <sup>a</sup>	60.0	0.034
Proinflammatory cytokine					
TNF-α (pg/ml)	1209 <sup>a</sup>	1430 <sup>Bb</sup>	1233 <sup>Aa</sup>	34.8	0.008
IL-1β (pg/ml)	134 <sup>a</sup>	159 <sup>b</sup>	157 <sup>b</sup>	4.3	0.026
IL-6 (pg/ml)	298 <sup>a</sup>	322 <sup>b</sup>	298 <sup>a</sup>	4.5	0.038
IL-8 (pg/ml)	291 <sup>a</sup>	325 <sup>b</sup>	306 <sup>ab</sup>	5.9	0.046

LBP = lipopolysaccharide-binding protein; SAA = serum amyloid A; CRP = C-reactive protein; Hp = haptoglobin; TNF-α = tumor necrosis factor α; IL-1β = interleukin-1β; IL-6 = interleukin-6; IL-8 = interleukin-8.  
<sup>1</sup>LCD, low-concentrate diet based on corn steeped in tap water for 48 h; HCD, high-concentrate diet based on corn steeped in tap water for 48 h; HCDT, high-concentrate diet based on corn steeped in 1% (wt/wt) hydrochloric acid for 48 h in combination with subsequent sodium bicarbonate neutralization.

<sup>A,B</sup>Means of the same row not sharing an uppercase letter differ ( $P < 0.01$ ).

<sup>a,b</sup>Means of the same row not sharing a lowercase letter differ ( $P < 0.05$ ).

The authors apologise for the error.

## Reference

Liu J, Tian K, Sun Y, Wu Y, Chen J, Zhang R, He T and Dong G 2020. Effects of the acid–base treatment of corn on rumen fermentation and microbiota, inflammatory response and growth performance in beef cattle fed high-concentrate diet. *Animal* 14, 1876–1884.