

Correction

## Correction: Ghoreyshi, S.M.; et al. Effects of Dietary Supplementation of L-Carnitine and Excess Lysine-Methionine on Growth Performance, Carcass Characteristics, and Immunity Markers of Broiler Chicken. *Animals* 2019, 9, 362.

Seyed Mohammad Ghoreyshi <sup>1</sup>, Besma Omri <sup>2</sup>, Raja Chalghoumi <sup>2</sup>, Mehrdad Bouyeh <sup>1</sup>, Alireza Seidavi <sup>1,\*</sup> , Mohammad Dadashbeiki <sup>3</sup>, Massimo Lucarini <sup>4</sup>, Alessandra Durazzo <sup>4</sup> , Rene van den Hoven <sup>5</sup> and Antonello Santini <sup>6,\*</sup> 

<sup>1</sup> Department of Animal Science, Rasht Branch, Islamic Azad University, Rasht 41335-3516, Iran

<sup>2</sup> Laboratory of Improvement and Integrated Development of Animal Productivity and Food Resources, Department of Animal Science, College of Agriculture of Mateur, University of Carthage, Bizerte 7000, Tunisia

<sup>3</sup> Department of Veterinary Science, Rasht Branch, Islamic Azad University, Rasht 41335-3516, Iran

<sup>4</sup> CREA-Research Centre for Food and Nutrition, Via Ardeatina 546, 00178 Rome, Italy

<sup>5</sup> Clinical Unit of Equine Internal Medicine, Veterinarmedizinische Universität, 1210 Wien, Austria

<sup>6</sup> Department of Pharmacy, University of Napoli Federico II, 80131 Napoli, Italy

\* Correspondence: alirezaseidavi@iaurasht.ac.ir (A.S.); asantini@unina.it (A.S.);  
Tel./Fax: +98-13-3342-4069 (A.S.); +39-81-25-39-317 (A.S.)

Received: 23 July 2019; Accepted: 25 August 2019; Published: 26 August 2019



The authors would like to make the following corrections to the published paper [1]:

1. A simple summary was added.
2. “ $p < 0.001$ ” was changed to “ $p < 0.01$ ” throughout the paper.
3. In the footnotes of Tables 3–7, the definition of “<sup>a,b</sup>” was changed to “Means within the same row with common superscript letters are not significantly different ( $p \geq 0.05$ )”.
4. Some data of the three parameters of broiler chicken growth performance were corrected in Table 3 and, therefore, in the related sentences in the paper. The corrected version is as follows:

**Table 3.** Growth performance of Ross 308 broilers fed diets containing different levels of L-carnitine and lysine-methionine from day 1 to day 42 of age.

| Parameters                        | Period  | Diets                 |                       |                       |                       |                       |                      |                       |                       | SEM                   | p      |    |
|-----------------------------------|---------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|--------|----|
|                                   |         | C                     | D1                    | D2                    | D3                    | D4                    | D5                   | D6                    | D7                    |                       |        | D8 |
| Feed intake,<br>g/pen/period      | 1–21 d  | 997.30                | 1012.60               | 1009.90               | 988.67                | 977.43                | 983.57               | 1005.43               | 1012.30               | 1006.53               | 8.37   | NS |
|                                   | 22–35 d | 2815.30               | 2898.46               | 2892.30               | 2819.50               | 2810.20               | 2800.90              | 2814.60               | 2859.19               | 2793.13               | 50.49  | NS |
|                                   | 35–42 d | 1851.90 <sup>a</sup>  | 1702.40 <sup>ab</sup> | 1781.90 <sup>ab</sup> | 1862.00 <sup>a</sup>  | 1748.9 <sup>ab</sup>  | 1564.40 <sup>b</sup> | 1945.10 <sup>a</sup>  | 1872.80 <sup>a</sup>  | 1757.70 <sup>ab</sup> | 83.30  | *  |
|                                   | 1–42 d  | 5664.50 <sup>ab</sup> | 5613.46 <sup>ab</sup> | 5684.10 <sup>ab</sup> | 5670.17 <sup>ab</sup> | 5536.53 <sup>ab</sup> | 5348.87 <sup>b</sup> | 5765.13 <sup>a</sup>  | 5744.29 <sup>a</sup>  | 5557.36 <sup>ab</sup> | 100.06 | *  |
| Body weight gain,<br>g/pen/period | 1–21 d  | 697.60 <sup>ab</sup>  | 706.31 <sup>a</sup>   | 745.50 <sup>a</sup>   | 671.10 <sup>abc</sup> | 621.60 <sup>bc</sup>  | 610.17 <sup>c</sup>  | 733.67 <sup>a</sup>   | 741.00 <sup>a</sup>   | 723.27 <sup>a</sup>   | 18.57  | ** |
|                                   | 22–35 d | 1207.10 <sup>a</sup>  | 1241.29 <sup>a</sup>  | 1165.50 <sup>ab</sup> | 1066.67 <sup>c</sup>  | 1029.83 <sup>c</sup>  | 1042.00 <sup>c</sup> | 1115.17 <sup>bc</sup> | 1100.41 <sup>bc</sup> | 1089.90 <sup>bc</sup> | 29.31  | ** |
|                                   | 35–42 d | 935.60 <sup>b</sup>   | 898.60 <sup>b</sup>   | 917.60 <sup>b</sup>   | 889.03 <sup>b</sup>   | 949.27 <sup>b</sup>   | 950.53 <sup>b</sup>  | 1037.36 <sup>a</sup>  | 1010.89 <sup>a</sup>  | 976.53 <sup>b</sup>   | 69.53  | *  |
|                                   | 1–42 d  | 2840.30 <sup>a</sup>  | 2846.20 <sup>a</sup>  | 2828.60 <sup>a</sup>  | 2626.80 <sup>b</sup>  | 2600.70 <sup>b</sup>  | 2602.70 <sup>b</sup> | 2886.20 <sup>a</sup>  | 2852.30 <sup>a</sup>  | 2789.70 <sup>a</sup>  | 86.91  | *  |
| Feed Conversion ratio             | 1–21 d  | 1.43 <sup>bc</sup>    | 1.43 <sup>bc</sup>    | 1.35 <sup>c</sup>     | 1.47 <sup>bc</sup>    | 1.57 <sup>ab</sup>    | 1.61 <sup>a</sup>    | 1.37 <sup>c</sup>     | 1.36 <sup>c</sup>     | 1.39 <sup>c</sup>     | 0.03   | ** |
|                                   | 22–35 d | 2.33 <sup>c</sup>     | 2.33 <sup>c</sup>     | 2.48 <sup>bc</sup>    | 2.64 <sup>ab</sup>    | 2.73 <sup>a</sup>     | 2.69 <sup>a</sup>    | 2.52 <sup>ab</sup>    | 2.60 <sup>ab</sup>    | 2.56 <sup>ab</sup>    | 0.06   | ** |
|                                   | 35–42 d | 1.98                  | 1.89                  | 1.94                  | 2.09                  | 1.84                  | 1.64                 | 1.88                  | 1.85                  | 1.80                  | 0.09   | NS |
|                                   | 1–42 d  | 1.99 <sup>ab</sup>    | 1.97 <sup>b</sup>     | 2.01 <sup>ab</sup>    | 2.16 <sup>a</sup>     | 2.13 <sup>a</sup>     | 2.05 <sup>a</sup>    | 2.00 <sup>ab</sup>    | 2.01 <sup>ab</sup>    | 1.99 <sup>ab</sup>    | 0.04   | *  |

C (Control) = diet with lysine, methionine, and L-carnitine equal to NRC recommendations; D1 = control diet supplemented with lysine at 15% in excess of NRC, methionine at 15% in excess of NRC, and L-carnitine equal to NRC; D2 = control diet supplemented with lysine at 30% in excess of NRC, at 30% in excess of NRC, and L-carnitine equal to NRC; D3 = control diet supplemented with lysine equal to NRC, methionine equal to NRC, and L-carnitine at 15% in excess of NRC; D4 = control diet supplemented control diet supplemented with lysine at 15% in excess of NRC, methionine at 15% in excess of NRC, and L-carnitine at 15% in excess of NRC; D5 = control diet supplemented lysine at 30% in excess of NRC, methionine at 30% in excess of NRC, and L-carnitine at 15% in excess of NRC; D6 = control diet supplemented with lysine equal to NRC recommendations, methionine equal to NRC recommendations, and L-carnitine at 75% in excess of NRC ; D7 = control diet supplemented with lysine at 15% in excess of NRC, methionine at 15% in excess of NRC, and L-carnitine at 75% in excess of NRC; D8 = control diet supplemented with lysine at 30% in excess of NRC, methionine at 30% in excess of NRC, and L-carnitine at 75% in excess of NRC; SEM = standard error of the mean; \*  $p < 0.05$ , \*\*  $p < 0.01$ , NS =  $p \geq 0.05$ ; a, b: Means within the same row with common superscript letters are not significantly different ( $p \geq 0.05$ ).

The authors would like to apologize for any inconvenience caused to the readers by these changes.

## References

1. Ghoreyshi, S.M.; Omri, B.; Chalghoumi, R.; Bouyeh, M.; Seidavi, A.; Dadashbeiki, M.; Lucarini, M.; Durazzo, A.; van den Hoven, R.; Santini, A. Effects of Dietary Supplementation of L-Carnitine and Excess Lysine-Methionine on Growth Performance, Carcass Characteristics, and Immunity Markers of Broiler Chicken. *Animals* **2019**, *9*, 362. [[CrossRef](#)] [[PubMed](#)]



© 2019 by the authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (<http://creativecommons.org/licenses/by/4.0/>).