



## MOHAMED M. IDRIS ALSHELMANI

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### EDUCATION AND QUALIFICATIONS

2018 – 2019	University Putra Malaysia, Malaysia	Post-Doctoral Researcher
2009 – 2015	University Putra Malaysia, Malaysia	PhD Animal Nutrition
1999 – 2001	University of Tripoli, Libya	MSc. Poultry Nutrition
1990 – 1994	University of Omar Al-mukhtar, Libya	BSc. Animal Production (Hons.)

### KEY SKILLS

#### Computer Skills

Microsoft Office (word, excel and PowerPoint), Endnote Software for references citation, SAS JMP Software for statistical data analysis, Feedlive Software for feed formulation.

#### Communication Skills

Arabic speaker as a first Language and English as a second Language.

#### Teamwork Skills

At each workplace in Libya or Malaysia; made a positive contribution to the work environment by being reliable, flexible, supportive and friendly towards work colleagues.

### Work Experience

Job Nature	Employer Name	From	to
Lecturer	University of Benghazi, Libya	2002	2003
Lecturer	University of Sebha, Libya	2004	2008
Lecturer	University of Sebha, Libya	2016	2017
Post Doctor	Universiti Putra Malaysia	2018	2019
Lecturer	University of Benghazi, Libya	2019	Now

## **Memberships**

Member in the American Society of Poultry Science (2012 – 2016)

## **Teaching Areas**

Poultry Nutrition, Poultry Production, Physiology of the fowl, Principles of Animal Production, Principles of Animal Nutrition, Non-traditional feeds, Applied Animal Nutrition

## **Research Interests**

- Development of digestive function in poultry.
- Effects of nutrients and anti-nutritional factors on poultry growth and health.
- Nutritional application of feed additives (microbial enzymes, prebiotics, probiotics, etc)
- Evaluation of alternative feed resources for poultry using microorganisms.

## **Awards**

Best undergraduate student during the Bachelor Degree at the Department of Animal Production, Faculty of Agriculture, University of Omar Al-mukhtar, Libya 1994.

Placed 1<sup>st</sup> in the Malaysia Graduate Competition in the Alltech Young Scientist Program 2014 – 2015.

Best graduate Doctoral program for the outstanding performance in the Department of Animal Science, Faculty of Agriculture, Universiti Putra Malaysia 2014 – 2015.

## **Publications**

### **Journal papers:**

**Alshelmani, M. I. (2007).** Effect of heat stress and the role of vitamin C on broiler performance: A review. *Journal of Sebha University (Pure and Applied Sciences)*, 6: 26-35.

Azaga, I., Salem, F, **Alshelmani, M. I** and Soliman, E. B. (2007). Anti-nutritional factors in fodder crops: constraints and solutions. *Journal of Sebha University (Pure and Applied Sciences)*, 6: 61-80.

**Alshelmani, M. I.**, Loh, T. C., Foo, H. L., Lau, W. H. and Sazili, A. Q. (2013). Characterization of cellulolytic bacterial cultures grown in different substrates. *The Scientific World Journal*, **2013**, 6.

**Alshelmani, M. I.**, Loh, T. C., Foo, H. L., Lau, W. H. and Sazili, A. Q. (2014). Biodegradation of palm kernel cake by cellulolytic and hemicellulolytic bacterial cultures through solid state fermentation. *The Scientific World Journal*, **2014**, 8.

**Alshelmani, M. I.,** Loh, T. C., Foo, H. L., Sazili, A. Q., and Lau, W. H. (2016). Effect of feeding different levels of palm kernel cake fermented by *Paenibacillus polymyxa* ATCC 842 on nutrient digestibility, intestinal morphology, and gut microflora in broiler chickens. *Animal Feed Science and Technology*, 216: 216 – 224.

Zamani H U, Loh T C, Foo H L, Samsudin A A and **Alshelmani M I**, Comparative evaluation of cellulolytic enzyme production by cellulolytic bacteria via solid state fermentation on palm kernel cake, rice bran, and wheat pollard. *Scientific Times Journal of Agri Science*. 2016 Oct;1(1):1002.

**Alshelmani, M. I.,** Loh, T. C., Foo, H. L., Sazili, A. Q., and Lau, W. H. (2017). Effect of feeding different levels of palm kernel cake fermented by *Paenibacillus polymyxa* ATCC 842 on broiler growth performance, blood biochemistry, carcass characteristics, and meat quality. *Animal Production Science*, 57(5): 839-848. <http://dx.doi.org/10.1071/AN15359>.

Zamani, H. U., Loh, T.C., Foo, H. L., Samsudin, A. A and **Alshelmani, M. I.** Effects of feeding palm kernel cake with crude enzyme supplementation on growth performance and meat quality of broiler chickens. *International Journal of Microbiology and Biotechnology*, Vol. 2 No.1, 2017, pp. 22–28. doi: 10.11648/j.ijmp.20170201.15.

Bulgasem Y. B, Zaiton H, Nur Huda-Faujan, Ramadan H. A. L, Mohd N. L and **Alshelmani, M. I.** (2017). Effect of pH, heat treatment and enzymes on the antifungal activity of lactic acid bacteria against *Candida* species. *Malaysian Journal of Microbiology*, 13 (3): 195-202.

**Alshelmani, M. I.,** Loh, T. C., Foo, H. L., Sazili, A. Q., and Lau, W. H. (2017). Effect of solid state fermentation on nutrient content and ileal amino acids digestibility of palm kernel cake in broiler chickens. *Indian Journal of Animal Sciences*, 87 (9): 1135-1140.

Kareem, K. Y., Abdulla, N. R., Foo, H. L., Mohd Zamri, A. N., Shazali, N., Loh, T. C and **Alshelmani, M. I.** (2018). Effect of feeding larvae meal in the diets on growth performance, nutrient digestibility and meat quality on broiler chicken. *Indian Journal of Animal Sciences*, 88 (10): 1180-1185.

Abdulla, N. R., Loh, T. C., Foo, H. L., **Alshelmani, M. I.**, and Akit, H. (2019). Influence of dietary ratios of n-6: n-3 fatty acid on gene expression, fatty acid profile in liver and breast muscle tissues, serum lipid profile, and immunoglobulin in broiler chickens. *The Journal of Applied Poultry Research*, 28 (2): 454 – 469.

Salem, N. A. A., **Alshelmani, M. I.**, and A. M. Aljadi (2020). A critical evaluation of precision dairy farming technologies and barriers to its adoption. *International Journal of Current Microbiology and Applied Sciences*, 9 (3): 313-318.

**Alshelmani, M. I.,** N. A. Salem, A. A. Salim and Sakal, I. (2020). Effect of dietary vitamin C and corn oil supplementation on broiler performance under heat stress. *International Journal of Current Microbiology and Applied Sciences*, 9 (4): 225-230.

Jaapar, M. S., **Alshelmani, M. I.**, Humam, A. M., Loh, T. C., Foo, H. L., and Akit H. (2020). Effect of feeding prilled palm fat with lyso-lecithin on broiler growth performance, nutrient digestibility, lipid profile, carcass, and meat quality. *Poultry Science Journal*, 8 (1): 43-50.

Abdulla, N. R., **Alshelmani, M. I.**, Loh, T. C., Foo, H. L and Zainudin, M. A. (2020). The Effect of methionine on performance, carcass characteristics and gut morphology of finisher broilers under tropical environment conditions. *Journal of World's Poultry Research*, 10 (2S): 180-183.

Shahidan, N., Goh, C. H., Lee, F. H., **Alshelmani, M. I** and Nadim, A. R. (2020). The addition influence of palm kernel protein as dietary on growth performance and meat quality of broilers. *Syrian Journal of Agricultural Research*, 7 (5): 478-489.

Abdulla, N. R., **Alshelmani, M. I.**, Humam, A. M and Loh, T. C. (2020). Improved nutritional value of broiler meat as healthy food by feeding chickens blends of vegetable oils. *Libyan Journal of Food and Nutrition*, 1 (1): 9 – 18.

### **Proceedings:**

**Alshelmani, M. I.**, Loh, T. C., Foo, H. L., Lau, W. H. and Sazili, A. Q. Characterization of some cellulolytic bacteria under solid state fermentation using palm kernel cake as a substrate. *The 33rd Malaysian Society of Animal Production*, Langkawi, Kedah, Malaysia. 4 - 7 June 2012. 40- 41.

**Alshelmani, M. I.**, Loh, T. C., Foo, H. L., Lau, W. H. and Sazili, A. Q. Optimization of different cellulolytic bacteria under solid state fermentation using palm kernel cake as a substrate. *International Agriculture Congress, Putrajaya, Malaysia*. 4-6 September, 2012.

**Alshelmani, M. I.**, Loh, T. C., Foo, H. L., Lau, W. H. and Sazili, A. Q. Production of cellulolytic enzymes by bacterial cultures under solid state fermentation using palm kernel cake as a substrate. *The 15th AAAP Animal Science Congress, Bangkok, Thailand*. 26-30 November, 2012.

**Alshelmani, M. I.**, Loh, T. C., Foo, H. L., Sazili, A. Q., and Lau, W. H. (2013). Effect of feeding fermented palm kernel cake on broiler chickens performance. *World's Poultry Science Association (Malaysia Branch), Scientific Conference, Advancing Poultry Production for food security. Faculty of Veterinary, University Putra Malaysia, Malaysia*. 30<sup>th</sup> Nov. to 1<sup>st</sup> Dec. 2013.

**Alshelmani, M. I.**, Loh, T. C., Foo, H. L., Lau, W. H. and Sazili, A. Q. Improvement of nutrient quality of palm kernel cake by cellulolytic bacteria through solid state fermentation. *The 1<sup>st</sup> ASEAN regional Conference on animal production (ARCAP) and The 35th of annual Conference of Malaysian Society of Animal Production (MSAP)*, Riverside Majestic Hotel, Kuching, Sarawak, Malaysia. 4 - 6 June, 2014. 63- 64.

**Alshelmani, M. I.**, Loh, T. C., Foo, H. L., Lau, W. H. and Sazili, A. Q. Effect of different time periods on cellulolytic bacterial's enzymes through solid state fermentation. *National Postgraduate Seminar (NSP). Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia*. 10 September, 2014.

**Alshelmani, M. I.**, Loh, T. C., Foo, H. L., Sazili, A. Q., and Lau, W. H. Growth performance and carcass quality of finisher broiler chickens fed diet with fermented palm kernel cake. *The 16<sup>th</sup> AAAP Animal Science Congress, Yogyakarta, Indonesia*. 10-14 November, 2014. 133

**Alshelmani, M. I.**, Loh, T. C., Foo, H. L., Sazili, A. Q., and Lau, W. H. Effects of feeding palm kernel cake fermented by cellulolytic bacteria on growth broiler performance, gut characteristics and blood biochemistry. *LRGS Colloquium, Klana Beach Resort, Port Dickson, Negeri Sembilan, Malaysia*. 30<sup>th</sup> January – 1<sup>st</sup> February, 2015.

Zamani, H.U., Loh, T. C., Foo, H. L., Samsudin, A. A., Abdulla, N. R; Kareem, K. Y and **Alshelmani, M. I.** Effects of feeding palm kernel cake with crude enzyme supplementation on growth performance of broiler chicken. *The 2<sup>nd</sup> ASEAN regional Conference on animal production (ARCAP) and The 36<sup>th</sup> of annual Conference of Malaysian Society of Animal Production (MSAP)*, Thistle Port Dickson Resort, Port Dickson, Negeri Sembilan, Malaysia. 1 - 3 June, 2015. 51- 52.

**Alshelmani, M. I.**, Loh, T. C., Kareem, K. Y., Abdulla, N. R., Foo, H. L., Mohd Zamri, A. N., Shazali, N. Feeding larvae meal in broiler diets and its effect on growth performance. *World's Poultry Science Association (Malaysia Branch), Scientific Conference, Enhancing Poultry Health and Production for Sustainable Poultry Industry. Faculty of Veterinary, University Putra Malaysia, Malaysia*. 18 – 19 April. 2018.

Humam, A.M., Loh, T.C., Foo, H.L., Samsudin, A.A., **M.I. Alshelmani**, and Noordin, M.M. (2018). Effects of feeding different postbiotics on growth performance of broilers under heat stress. *World's Poultry Science Association (Malaysia Branch), Scientific Conference, Enhancing Poultry Health and Production for Sustainable Poultry Industry. Faculty of Veterinary, University Putra Malaysia, Malaysia*. 18 – 19 April. 2018.

Humam, A.M., Loh, T.C., Foo, H.L., Samsudin, A.A., Noordin, M.M. and **Alshelmani, M.I.** Growth performance, immune status and acute phase protein in broiler fed different postbiotics produced by *L. Plantarum* under heat stress. *The 18<sup>th</sup> AAAP Animal Science Congress, Kuching, Malaysia*. 1-3 August, 2018. 45.

Abdulla, N.R., **Alshelmani, M.I.**, Loh, T.C., Foo, H.L. and Akit, H. Responses of growth performance and carcass characteristics in broiler fed different dietary levels of oil blend. *The 18<sup>th</sup> AAAP Animal Science Congress, Kuching, Malaysia*. 1-3 August, 2018. 129.

Abdulla, N.R., **Alshelmani, M.I.**, Loh, T.C., Foo, H.L. and Akit, H. Feeding different dietary levels of oil blend to broiler chickens and its effect on gut morphology and immune responses. *The 18<sup>th</sup> AAAP Animal Science Congress, Kuching, Malaysia*. 1-3 August, 2018. 430.

Humam, A. M., **Alshelmani, M. I.**, Loh, T. C and Foo, H. L. Inhibitory activity of metabolites produced by different *Lactobacillus plantarum* strains against pathogens. *The 4<sup>th</sup> International Conference of Basic Sciences and their Applications (ICBTA), Al-beida, Libya*. 1 – 2 December, 2020.

## **REFEREES**

Dr Ubedullah Kaka

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