

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.

Leadership Skills

Libyan representative at the UPM International Student Association from 2014 to 2015.
Deputy Dean at the Faculty of Agriculture, University of Benghazi from March 2020 to August 2021.
Head of the exams committee at the Faculty of Agriculture, University of Benghazi from 2020 to 2022.
Head of the certificates equivalence committee at the Faculty of Agriculture, University of Benghazi from 2020 to 2022.
Head of the Department of Plant Production, Faculty of Agriculture, University of Benghazi from 2022 to 2024.

Head of the Department of Animal Production, Faculty of Agriculture, University of Benghazi from 2024 to now.
Higher Education Coordinator at the Department of Animal Production from 2024 to now.

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 1st 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**. **(2017).** 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, 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.

Alshelmani, M. I., Abdalla, E. A., Kaka, U. and Abdul Basit, M. **(2021)**. Nontraditional feedstuffs as an alternative in poultry Feed. In Advances in Poultry Nutrition Research. IntechOpen (Book chapter).

Humam, A. M., **Alshelmani, M. I.,** Loh1, T. C and Foo, H. L. **(2021)**. Inhibitory activity of metabolites produced by different *Lactobacillus plantarum* strains against pathogens. International Journal of Multidisciplinary Sciences and Advanced Technology, Special isuue 1: 384 – 389.

Al-Agouri, S., Alrwab, N., Amgawer, H., Sadaga, G and **Alshelmani, M. I. (2021)**. Prevalence of coccidia in domestic pigeons (Columba livia domestica Gmelin, 1789) in Benghazi city, Libya. Aceh Journal of Animal Science, 6 (2): 52 – 56.

Alshelmani, M. I., U. Kaka, E. A. Abdalla, A. M. Humam, and H. U. Zamani. **(2021)**. Effect of feeding fermented and non-fermented palm kernel cake on the performance of broiler chickens: a review. World's Poultry Science Journal, 77 (2): 377-388.

Humam, A. M., **Alshelmani, M. I.,** Loh1, T. C and Foo, H. L. **(2021**). Antioxidant activities of postbiotics produced by several *Lactobacillus plantarum* strains using reconstituted media. The Scientific Journal of University of Benghazi, 34 (2): 150 – 153.

Reza, N. A., Loh, T. C., **Alshelmani, M. I** and Lee, F. H. **(2022)**. Evaluation of apparent metabolizable energy of five oil sources in broiler chickens. Al-Mukhtar Journal of Veterinary Sciences 1 (1): 35-39.

Samira Alagouri, S., Alrwab, N., Amgawer, H., **Alshelmani, M. I** and Emtinan Azalden, E. **(2022)**. Prevalence of Hydatidosis in local sheep in Tocra city, Libya. Syrian Journal of Agricultural Research, 9 (4): 184 – 189.

Kairalla, M. A., Aburas, A. A and **Alshelmani, M. I**. **(2022)**. Effect of diet supplemented with graded levels of ginger (*Zingiber officinale*) powder on growth performance, hematological parameters and serum lipids of broiler chickens. Archives of Razi Institute, 77 (6): 2077 – 2083.

Kairalla, M. A., **Alshelmani, M. I** and Aburas, A. A **(2022)**. Effect of diet supplemented with graded levels of garlic (*Allium sativum* L.) powder on growth performance, carcass characteristics, blood hematology, and biochemistry of broilers. Open Veterinary Journal, 12 (5): 595 – 601.

Alshelmani1, M. I., Alfoni1, A. N., Kairalla, M. A and Hussein, A. **(2022)**. Evaluation of productive efficiency of laying hens (Hisex brown) in Suluq region, Libya. Silphium Journal of Science and Technology, 2: 28 – 39.

Aljumaili, O. A., Humam, A. M., Al–Mashhadani, H. A., **Alshelmani, M. I** and Abdulrazzaq, N. Z **(2023)**. Effect of different dietary of grape seed oil level on the growth perfor-mance and carcass characteristics in broiler chickens (Gallus gallus domesticus). Journal of Kerbala for Agricultural Sciences, 10:1-12.

Kairalla, M. A., **Alshelmani, M. I** and Imdakim, M. M. **(2023)**. Effect of diet supplemented with different levels of moringa powder on growth performance, carcass characteristics, meat quality, hematological parameters, serum lipids, and economic efficiency of broiler chickens. Archives of Razi Institute, 78:1421-1430.

Amgawer, H., Salem, N. A and **Alshelmani, M. I (2023).** Effect of stocking density on broiler performance and carcass characteristics. Sebha University Journal of Pure & Applied Sciences, 22 (2): 57 – 60.

Elfunie, A. N. A., **Alshelmani, M. I** and Salem, N. K. M **(2023)**. Evaluation of productive performance of laying hens (Hy-line) under Libyan conditions. The Scientific Journal of University of Benghazi, 36 (2): 101 – 103.

Alshelmani, M. I., El-Safty, S. A., Kairalla, M. A and Humam, A. M. **(2024)**. Enzymes in Poultry Feed. Feed Additives–Recent Trends in Animal Nutrition. (Book Chapter).

Kairalla, M. A and **Alshelmani, M. I. (2025).** The influence of supplementation of licorice powder (glycyrrhiza glabra) to broiler diets on growth performance, hematological parameters and serum lipids. Archives of Veterinary Medicine, 18 (1): 107 – 118.

Kairalla, M. A., **Alshelmani, M. I.,** Muftah, I. M and Aburas, A. A **(2025)**. Effect of inclusion corn distillers' dried grains with soluble on performance, carcass and meat quality on broiler chicken. ZANCO Journal of Pure and Applied Sciences, 36 (1): 70-77.

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.* 30th Nov. to 1st 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 1st 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 Posgraduate 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 16th 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.* 30th January – 1st 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 2nd ASEAN regional Conference on animal production (ARCAP) and The 36th 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 18th 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 18th 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 18th 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 4th International Conference of Basci Sciences and their Applications (ICBTA), Al-beida, Libya.* 1 – 2 December, 2020.

Abdulla, N. R., **Alshelmani, M. I**., Humam, A. M and Loh, T. C. Improved nutritional value of broiler meat as healthy food by feeding chickens blends of vegetable oils. *1st International Food and Nutrition Conference and Exhibition (ICFN), Tripoli, Libya*, 12 – 14 June, 2021.

Alshelmani, M. I., Bokhrais, R. A. Evaluation of the growth performance of broilers (Ross308) raised under the local conditions in suloq city. *The 2nd Conference of Agricultural Researches (Animal Production),* Misurata, Libya. 9 - 10 October 2021.

Alshelmani, M. I., Alkezza, R. T., Majdi, M. A and Amgawer, H. Contamination of milk produced by libyan stray sheep with heavy metals. *8th AMDI-UNAIR International Postgraduate Research & Innovation Colloquium (AUPC2024.* IPPT, USM, Pulau Pinang, Malaysia. 11th – 12th September, 2024.

REFEREES

Dr Ubedullah Kaka
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Dr Awis Qurni Sazili
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