MOHAMED I. HASSAN, PhD.

(Assistant Research Professor, Poultry Science)

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PROFESSIONAL PROFILE	Associate Research Professor in Poultry Science with a Ph.D. and specialized expertise in in-ovo feeding techniques. Fulbright alumnus (2011, USA) and HatchTech-trained (Netherlands), with a strong record in innovative research, data analysis, and high-impact publications.	
PERSONAL INFORMATION	Full Name:	Mohammed Ibrahem Ahmed Hassan
	Affiliations:	Assistant Research Professor, Livestock Research Dept., Arid Lands Cultivation Research Institute, City of Scientific Research and Technological Applications (SRTA)-City.
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EDUCATION	▪ **Ph.D. in Poultry Production (2014-2018).** Faculty of Agriculture, Alexandria University, Alexandria, **Egypt**. ▪ **Northwest Community College Initiative Diploma (2010 – 2011)** US Department of State. **USA**. ▪ **Basic Office Assistant Diploma (2010-2011).** Edmonds Community College, Lynnwood WA, **USA**. ▪ **M.Sc. in Agricultural Science (Poultry Production) (2005- 2010).** Faculty of Agricultural, Alexandria University, Damanhur Branch, **Egypt**. ▪ **B.Sc. in Agriculture Productions Science (2000-2004).** Faculty of Agricultural, Alexandria University, Damanhur Branch, **Egypt**.	

WORK EXPERIENCE	▪ **Assistant Research Professor** (2025-present) Livestock Research Dept., Arid Lands Cultivation Research Institute (ALCRI), City of Scientific Research and Technological Applications, New Borg El-Arab City, P.O. Box:21934, Alexandria, EGYPT. ▪ **Researcher** (2019-2025). Livestock Research Dept., Arid Lands Cultivation Research Institute (ALCRI), City of Scientific Research and Technological Applications, New Borg El-Arab City, P.O. Box:21934, Alexandria, EGYPT. ▪ **Assistant Researcher** (2013-2019). Livestock Research Dept., Arid Lands Cultivation Research Institute (ALCRI), City for Scientific Research and Technological Applications, New Borg El-Arab City, P.O. Box:21934, Alexandria, EGYPT. ▪ **Production Engineer** (2009-2010). The Hatchery of El Shemoa Company for Poultry Production, Alexandria, Egypt.
RESEARCH INTEREST AREA	▪ Currently focusing on modern poultry industry aspects, including hatchery diets and management, to maximize profitability. ▪ Conducted pioneering research on "In Ovo Feeding" and early post-hatch feeding during Ph.D. studies, significantly enhancing poultry performance and immunity. ▪ Investigated the response of broiler genotypes to various feeding regimens during Master's studies, published in a highly ranked ISI Journal.
QUALIFICATIONS	▪ A team worker ▪ Excellent ability for taking field samples ▪ Excellent ability for planning and making field experiments ▪ Supervising all operations in Poultry Hatchery ▪ Very strong planner with ability to predict business cycle in poultry production ▪ Cool-headed and quick-thinker in emergency situations ▪ Strong scientist with innate talent for understanding the physics and chemistry of poultry production, farm operation, and day-to-day operations ▪ Computer (MS Word, Excel, PowerPoint, SPSS and internet usage) ▪ Presentation skills ▪ English, and Arabic Language
ACTIVITIES	**Projects** ▪ Research partner in the project titled in “Production of promising probiotic enriched with selenium nanoparticles synthesized by biological approach for livestock use”. Funded by Academy of Scientific Research and Technology. (2018 to 2022). **Supervisions** ***M.Sc.:***

1. Ahmed Mohamed Hesham "Influence of in ovo injection and/or spraying of vitamin C for incubated eggs on hatchability and post hatch traits of broiler chicks". Faculty of Technology and Development, Zagazig University, 2023.
2. Mohamed Abd-El Hameed "*In-ovo* injection of L-Carnitine on broiler eggs". Faculty of Agriculture, Damanhour University, 2021.
3. Heba Adel Essa "Effects of honey bee venom on productive and physiological traits of growing rabbits". Faculty of Agriculture, Damanhour University, 2019.

Ph. D.:

4. Hossen Mohamed Essa "The impact of in-ovo injection of Zinc and Copper nanoparticles on hatchling traits of broiler chickens" Faculty of Agriculture, Cairo University, 2022.
5. Mahmoud Abd El Badeeh Sarhan "Effects of in-ovo Feeding Using Nano Selenium and Nicotinamide on Physiological and Carcass Traits of Broiler Chickens" Faculty of Agriculture, Alexandria University, 2021.

Lecturer and Instructor

- Instructor in Winter School program in New Applications in Poultry Industry, Livestock Research Dept., Arid Lands Cultivation Research Institute (ALCRI), City of Scientific Research and Technological Applications (SRTA-City), from 2019 to Present.
- Lecture and Instructor of practical work in Summer School program in Paving the way for sustainable animal and poultry production according to Egypt 2030. Livestock Research Dept., Arid Lands Cultivation Research Institute (ALCRI), City of Scientific Research and Technological Applications (SRTA-City), from 2019 to Present.

Reviewer of International Journals

- Reviewer for many scientific highly ranked journals.

Administrative Activities:

- **Member Council** of Livestock Research Dept., Arid Lands Cultivation Research Institute, (SRTA-City) (2021/2022).
- **Secretary Council** of Arid Lands Cultivation Research Institute (ALCRI), (SRTA-City) (2020/2021).
- **Member Council** of Arid Lands Cultivation Research Institute (ALCRI), (SRTA-City) (2020/2021).
- Membership of a committee to oversee the development and follow-up implementation of the (SRTA-city) website.

	Extra-curriculum Activities **Presentations:** ▪ Attending and **Giving a Talk** on the Pre-Departure Orientation (**PDO**) Session for the AY2019-2020 CCI program on May 21, 2019 at the Fulbright Commission in Egypt. ▪ A presentation at the first post graduate conference (**2019**), Faculty of Agriculture Alexandria University, Egypt. ▪ The **Graduation Speaker** in the Intensive English Program Graduation Ceremony (**2011**). Edmonds Community College, Lynnwood WA, **USA**. **Activities &Membership:** ▪ Attending **Egypt's Science Day** in the presence of Egypt President: ***Abdel Fattah el-Sisi,* (August, 2018)** Cairo, Egypt. ▪ Attending the Binational Fulbright Commission in Egypt Event at Steigenberger Cecil Hotel in Alexandria on March 23, 2016 and on April 15, 2018. ▪ Attending the Bio vision scientific conference at the Alexandria Library, Egypt " April 7 – 9, 2014. ▪ Member of Egyptian Poultry Science Journal, Alexandria University, Egypt. **Training Courses:** ▪ Joined Royal Pass Reform company "Hatchery Talks' webinar" September 16, 2021. ▪ Online HatchTech Training Course (27 July 2021) ▪ Attending the training course for developing research staff member skills, Cairo University Training Center, Cairo, Egypt. (From 15/6 to 4/7/2019) ▪ Attending the course" General Chromatography and New Technique of the HPTLC (HPTLC, MS). (March, 2014) ▪ General English Language Training Program, Upper-Intermediate stage in AMIDEAST's ELTT Program, AMIDEAST/EGYPT. (from January 3, 2010 to July 18, 2010)
GRANTS & AWARDS	**Grant:** ▪ A scholarship for one-year (2010-2011), from the North West Community College (NWCCI) Initiative, Department of Stats, Edmonds Community College (EDCC), Lynnwood, WA, **USA**.
	Awards: ▪ Received a Shield of Honor and Letter of Congratulation for the Ph. D. Degree from the Egyptian Poultry Science association, September 5, 2019.

	▪ Outstanding Student Award, Edmonds Community College (EDCC) June 2011, Lynnwood, WA, **USA**. ▪ Outstanding Team Award (2010-2011), Edmonds Community College (EDCC), Lynnwood, WA, **USA.** ▪ Received an Honor Letter for excellent academic success, 2011. Edmonds Community College (EDCC), Lynnwood, WA, **USA**.
LIST OF PUBLICATIONS	**Publications and Patents** **Research Articles** 1. **Hassan, M. I.,** Saber S. Hassan, Farid N.K. Soliman, Mohamed H. Khalil (2025). Effects of *in ovo* administration of freeze-dried royal jelly on hatchability, blood parameters, and organ weights of day-old chicks. *Journal of Animal Physiology and Animal Nutrition*. Animal Nutrition, 2025; https://doi.org/10.1111/jpn.14052 2. Issa, H. J., **Hassan, M. I.,** Mekkawy, A. M., El Sabry, M. I., & Abousekken, M. S. M. (2024). Benefit and potential risk: Effects of in ovo copper oxide nanoparticles supplementation on hatchability traits, organ weights and histological features of newly hatched chicks. *Journal of Animal Physiology and Animal Nutrition*. https://doi.org/10.1111/jpn.14007 3. **Hassan, M. I.,** Abdel-Monem, N., Khalifah, A. M., Hassan, S. S., Shahba, H., Alhimaidi, A. R., ... & El-Tahan, H. M. (2024). Effect of Adding the Antimicrobial L-Carnitine to Growing Rabbits' Drinking Water on Growth Efficiency, Hematological, Biochemical, and Carcass Aspects. *Antibiotics*, *13*(8), 757. https://doi.org/10.3390/antibiotics13080757 4. Mohamed H. Khalil, Saber S. Hassan, Farid N.K. Soliman & **Mohamed I. Hassan** (**2023**). In-Ovo Injection of Melittin into Alexandria Chicken Eggs: A Way for Early Immune Acceleration. "*Animal Biotechnology*", 34(8), 4060-4068. https://doi.org/10.1080/10495398.2023.2255063 5. Hassan, S., Abou-Shehema, B., Shahba, H., **Hassan, M.,** Boriy, E., & Rozan, M. (2023). Impact of dietary vitamin (E) and Eruca sativa seeds powder on broiler productivity, health, carcass characteristics, and meat quality. *Animal Biotechnology*, 34 (9), 5037-5054. https://doi.org/10.1080/10495398.2023.2224844 6. **Hassan, M. I.**, & Hassan, S. S. (2023). THE IMMUNOMODULATORY AND HISTOLOGICAL EFFECTS OF Nigella sativa SEEDS ON BROILER CHICKENS. *Journal of Agricultural and Environmental Sciences*, *22*(3), 317-340.

	7. **Mohamed I. Hassan**; Ayman M. Khalifah; Abdallah E. Mohamed; Mohamed I. El Sabry, & Saber S. Hassan. (2023) " Performance traits and selected blood constituents of Hubbard broiler chicks as influenced by early access to feed post-hatch" *Animal Biotechnology*, 34 (7), 2855-2862. https://doi.org/10.1080/10495398.2022.2124164 8. Saber Hassan, **Mohamed Hassan**, Farid Soliman & Assem Safwat (2023): Influence of hot red pepper oil in broiler diets on blood, antioxidant, immunological parameters and intestinal bacteria counts, *Animal Biotechnology*, 34 (4), 1295-1304. https://doi.org/10.1080/10495398.2021.2020132 9. Sarhan, M. A., Nassif, F., Elsebai, A., Elghalid, O., & **Hassan, M. I.** (2023). IMPACT OF IN-OVO INJECTION WITH SELENIUM NANOPARTICLES AND OR NICOTINAMIDE ON SOME POST-HATCH TRAITS OF BROILER CHICKS. *Egyptian Poultry Science Journal*, *43*(2), 239-258. 10. Adel, H., Hassan, M. I., Soliman, F. N. K., & Hassan, S. S. (2022). INFLUENCE OF BEE VENOM INJECTION ON GROWING RABBITS: 1-PERFORMANCE, CARCASS TRAITS, AND ECONOMIC EFFICIENCY. *Journal of Agricultural and Environmental Sciences*, *21*(3), 543-564. 11. Abd El-Hack ME, El-Saadony MT, Alqhtani AH, Swelum AA, Salem HM, Elbestawy AR, Noreldin AE, Babalghith AO, Khafage AF, **Hassan MI** & El-Tarabily KA. (2022). The relationship among avian influenza, gut microbiota and chicken immunity: an updated overview. *Poultry science*, *101*(9), 102021. 12. Ayman Moawed Khalifah, Amina Shaban El-Saadany, **Mohamed Ibrahem Hassan**, Walaa Abdelraouf Kashyout, Waleed Mostafa Dosoky. (2021). Impact of Stevioside Supplementation as Feed Additive in Finisher Broiler Diets on Growth Performance, Carcass Traits, Meat Quality, Selected Biochemical Parameters, and Caecum Microflora. *Adv. Anim. Vet. Sci.* 9(12): 2168-2175. http://dx.doi.org/10.17582/journal.aavs/2021/9.12.2168.2175 13. **Hassan, M.I.,** Khalil, M.H., Elghalid, O.A., & Hassan, S.S. (2021). The Effect of in-ovo Injection of Bee Venom on Hatchability and some Immunological Parameters of Alexandria Chicks' Strain at Hatch. *Egyptian Poultry Science Journal*, Vol. (41), (I): 1-13. 14. **Hassan, M.I.,** Soliman, F.N.K., Elkomy, A.E., Elghalid, O.A., Asmaa M. Alfarmawy & Shebl, M.K. (2018). The effect of in-ovo injection of some nutrients on productive performance and some physiological traits of

Hubbard broiler chicks. *Egyptian Poultry Science Journal*, Vol. (38), (III): 923-941.

15. Youssef A. Attia., Waleed S. Al-Tahawy., Maria C. de Oliveira., Mohammed A. Al-Harthi., Abd Alrazk. E. Tag El-Din & **Mohamed I. Hassan** (2016). Response of two broiler strains to four feeding regimens under hot climate. *Animal Production Science*, (56) 1475-1483. http://dx.doi.org/10.1071/AN14923

Book

- **Mohamed Ibrahem Hassan** et al., (2022). "Relationship between Nutrition and Broiler Genotypes". *Eliva Press*.

Book Chapter

- Mohamed Hafez, Amr El-Nile, **Mohamed I. Hassan**, Elsayed M. Zeitar, Sabah R. Mohammed, Ahmed M. Abdallah, Wafaa F. Zohir, Alexander I. Popov, Tatiana Minkina & Mohamed Rashad. (**2023**) "Humic Substances and Their Potential to Enhance Soil, Plants, and Animals' Productivity: A New Concept for Sustainable Agriculture" Book Title: Agricultural Research Updates. Volume 44, 2023, *Nova publisher*, Springer.

Patent

- **Mohamed I. Hassan** et al., (2023, pending). Patent ID: EG/P/2023/839, Title "Potential mineral compound that has the ability to enhance growth rates, immunity status, and improve carcass traits for farm animals".

Important Links

- Scopus Profile: https://www.scopus.com/authid/detail.uri?authorId=57190487534
- Google Scholar: https://scholar.google.com/citations?user=O86bmwIAAAAJ&hl=en
- SRTA-City Profile: http://srtacity.sci.eg/mohammed-ibrahem-ahmed-hassan/