

Amin Omar Hendawy



+20-100-561-6049 | amin.hendawy@gmail.com | Egypt, Damanhour University, Faculty of Agriculture, Department of Animal and Poultry Production, Postcode: 22516.

Objective and interest

- 🍷 My aim is to optimize my potentials and capacities as a researcher in the field of animal production to benefit my community, my career, my students and to actualize myself.

Education, training, and qualifications

- 🍷 PhD of Biological Production Science “Animal Science” 2020 with a GPA of A-, Tokyo University of Agriculture and Technology, Japan.
Thesis title: Effects of 5-aminolevulinic acid supplementation on immune response, rumen fermentation, and milk production in dairy cows.
- 🍷 Master of Agricultural Sciences “Animal Production” 2014 with a GPA of B+, Faculty of Agriculture, Damanhour University, Egypt.
Thesis title: Effect of supplementation of black seeds and ginger on some physiological traits of sheep.
- 🍷 Bachelor of Agricultural Sciences “Animal and Poultry Production” 2008 with a GPA of excellent with honor degree, Faculty of Agriculture, Damanhour Branch, Alexandria University, Egypt.
- 🍷 Special training at Faculty of Leadership Development Center: effective teaching, critical thinking, effective communication, intellectual thinking and property rights, research methodology, and research ethics.
- 🍷 Training of Staff working at Al Behera Department of Agriculture, Ministry of Agriculture on how to manage farm animal from 24th August 2014 – 4th September 2014.
- 🍷 During PhD, I received training at the Department of Biological Production, Tokyo University of Agriculture and Technology, Tokyo, Japan—I learnt how to obtain peripheral blood

mononuclear cell (PBMC) and extract RNA and DNA, reseed PBMC, treat cells, perform qPCR and several ELISA tests, and the like.

- 🍷 I received training as a post-doctoral researcher at the Department of Biological Production, Tokyo University of Agriculture and Technology, Tokyo, Japan—I learnt how to deal and obtain the bovine granulosa cells, reseed the bovine granulosa cells, treat cells.... ect.
- 🍷 I received training as a post-doctoral researcher at the Laboratory of Animal Nutrition, Tohoku University, Japan—I learnt how to deal the bovine mammary epithelial cells (BMEC), reseed the BMEC, treat cells.... ect.

Work experience

- 🍷 **May 2026- present time:** Lecturer, Department of Animal and poultry production, Faculty of Agriculture, Damanhour University, Egypt.
- 🍷 **November 2025- April 2026:** Visiting Associate Professor, Laboratory of Animal Nutrition, Division of Life Sciences, Graduate School of Agricultural Science, Tohoku University, Japan.
- 🍷 **September 2022- October 2025:** Lecturer, Department of Animal and poultry production, Faculty of Agriculture, Damanhour University, Egypt.
- 🍷 **November 2014- August 2022:** Assistant lecturer, Department of Animal and poultry production, Faculty of Agriculture, Damanhour University, Egypt.
- 🍷 **April 2009 – October 2014:** Demonstrator, Department of Animal and poultry production, Faculty of Agriculture, Damanhour University, Egypt.

Scientific participation and publications

Publications in academic journals

- 🍷 **Hendawy, A.O.;** Sugimura, S.; Taniguchi, S.; Sato, K. 5-Aminolevulinic acid improves immune response in dairy cows in vivo and in vitro. *Animal Science Journal*. **2026**, <https://doi.org/10.1111/asj.70222> (Accepted)
- 🍷 Hassan A.A.; Kholif A.E.; Khalil M.S.; Attia M.F.A.; El-Gendy M.N.; Yacout M.H.; El-Badwi A.Y.; Moharam M.S.; **Hendawy A.O.;** Grawish S.I.; Anele U.Y.; Vargas-Bello-Pérez E.; Sallam S.M.A. Effects of aqueous *Ocimum basilicum* extract on feed intake, antioxidant status, serum biochemical parameters, immune response, ruminal fermentation, and growth performance of suckling calves. *Animal Feed Science and Technology*. **2026**, 343: 116891, <https://doi.org/10.1016/j.anifeedsci.2026.116891>
- 🍷 Hassan A.A.; Abo-Hafsa S.H.; Attia M.F.A.; Ashour G.; Yacout M.H.; El-Badwi A.E.; **Hendawy A.O.;** Syed H.A.; El-Sheikh H.A.; Khalil M.A.; Kholif A.E.; Bello-Perez V.;

- Sallam S.M.A. Effect of *Ocimum basilicum* extracts on in vitro rumen fermentation and in vivo apparent total-tract digestibility of calves. *German Journal of Veterinary Research*. **2025**, 5 (4): 144-157. <https://doi.org/10.51585/gjvr.2025.4.0171>
- 🍷 **Hendawy A.O.**; AmrAbit A.A.; Shahba H.A.; Hassan S.S.; Hassaan M.I.; Habashy W.S. Breed-Specific Responses to Peppermint Oil Supplementation: Effects on Growth, Antioxidant Status, and Carcass Traits in Growing Rabbits. *Advances in Animal and Veterinary Sciences*. **2025**, 13(11):2424-2434. [Doi: 10.17582/journal.aavs/2025/13.11.2424.2434](https://doi.org/10.17582/journal.aavs/2025/13.11.2424.2434)
 - 🍷 Elfadadny, A.; Ragab, R.F.; AlHarbi, M.; Badshah, F.; Ibáñez-Arancibia, E.; Farag, A.; **Hendawy A.O.**; De los Ríos-Escalante, P.R.; Aboubakr, M.; Zakai, S.A.; and Nageeb, W.M. Antimicrobial resistance of *Pseudomonas aeruginosa*: navigating clinical impacts, current resistance trends, and innovations in breaking therapies. *Frontiers in Microbiology*. **2024** 15:1374466, [doi: 10.3389/fmicb.2024.1374466](https://doi.org/10.3389/fmicb.2024.1374466)
 - 🍷 Islam, M.A.; Ikeguchi, A.; Naide, T.; **Hendawy, A.O.** Relationships of vapour pressure deficit on aerosol particles and airborne bacteria in dairy barns. *Biosystems Engineering* **2023**, 229, 137-153, doi.org/10.1016/j.biosystemseng.2023.03.016.
 - 🍷 Samir, H.; ElSayed, M.I.; Radwan, F.; Hedia, M.; Hendawy, H.; **Hendawy, A.O.**; Elbadawy, M.; Watanabe, G. An updated insight on testicular hemodynamics: Environmental, physiological, and technical perspectives in farm and companion animals. *Veterinary research communications* **2023**, 47, 323-345 [doi:10.1007/s11259-022-10022-9](https://doi.org/10.1007/s11259-022-10022-9).
 - 🍷 Elshafey, B.G.; Elfadadny, A.; Metwally, S.; Saleh, A.G.; Ragab, R.F.; Hamada, R.; Mandour, A.S.; **Hendawy, A.O.**; Alkazmi, L.; Ogaly, H.A., et al. Association between biochemical parameters and ultrasonographic measurement for the assessment of hepatic lipidosis in dairy cows. *Italian Journal of Animal Science* **2023**, 22, 136-147, [doi:10.1080/1828051X.2023.2170284](https://doi.org/10.1080/1828051X.2023.2170284).
 - 🍷 **Hendawy, A.O.**; Sugimura, S.; Sato, K.; Mansour, M.M.; Abd El-Aziz, A.H.; Samir, H.; Islam, M.A.; Bostami, A.B.M.R.; Mandour, A.S.; Elfadadny, A., et al. Effects of Selenium Supplementation on Rumen Microbiota, Rumen Fermentation, and Apparent Nutrient Digestibility of Ruminant Animals: A Review. *Fermentation* **2022**, 8, 4. doi.org/10.3390/fermentation8010004
 - 🍷 Abd El-Aziz, A.H.; Abo Ghanima, M.M.; Alsanie, W.F.; Gaber, A.; Alsenosy, A.E.; Easa, A.A.; Moawed, S.A.; Raza, S.H.A.; Elfadadny, A.; Yossef, H.A.; Ghoneem, W.M.; Shukry, M.; **Hendawy, A.O.**; Mahrose, K.; Fructooligosaccharide Supplementation Boosts Growth Performance, Antioxidant Status, and Cecal Microbiota Differently in Two Rabbit Breeds. *Animals* **2022**, 12, [doi:10.3390/ani12121528](https://doi.org/10.3390/ani12121528).

- 🍷 Ali, A.M.; Al-Amer, R.; Atout, M.; Ali, T.S.; Mansour, A.M.H.; Khatatbeh, H.; Alkhamees, A.A.; **Hendawy, A.O.** The Nine-Item Internet Gaming Disorder Scale (IGDS9-SF): Its Psychometric Properties among Sri Lankan Students and Measurement Invariance across Sri Lanka, Turkey, Australia, and the USA. *Healthcare (Basel, Switzerland)* **2022**, *10*, [doi:10.3390/healthcare10030490](https://doi.org/10.3390/healthcare10030490).
- 🍷 Ali, A.M.; Al-Amer, R.; Kunugi, H.; Stănculescu, E.; Taha, S.M.; Saleh, M.Y.; Alkhamees, A.A.; **Hendawy, A.O.** The Arabic Version of the Impact of Event Scale-Revised: Psychometric Evaluation among Psychiatric Patients and the General Public within the Context of COVID-19 Outbreak and Quarantine as Collective Traumatic Events. *Journal of personalized medicine* **2022**, *12*, [doi:10.3390/jpm12050681](https://doi.org/10.3390/jpm12050681).
- 🍷 Ali, A.M.; Alkhamees, A.A.; Abd Elhay, E.S.; Taha, S.M.; **Hendawy, A.O.** COVID-19-Related Psychological Trauma and Psychological Distress Among Community-Dwelling Psychiatric Patients: People Struck by Depression and Sleep Disorders Endure the Greatest Burden. *Frontiers in Public Health* **2022**, *9*, [doi:10.3389/fpubh.2021.799812](https://doi.org/10.3389/fpubh.2021.799812).
- 🍷 Ali, A.M.; **Hendawy, A.O.**; Al-Amer, R.; Shahrour, G.; Ali, E.M.; Alkhamees, A.A.; Ibrahim, N.; Lamadah, S.M.T.; Ahmed, A.H. Psychometric evaluation of the Depression Anxiety Stress Scale 8 among women with chronic non-cancer pelvic pain. *Scientific reports* **2022**, *12*, 20693, [doi:10.1038/s41598-022-15005-z](https://doi.org/10.1038/s41598-022-15005-z).
- 🍷 Ali, A.M.; **Hendawy, A.O.**; Abd Elhay, E.S.; Ali, E.M.; Alkhamees, A.A.; Kunugi, H.; Hassan, N.I. The Bergen Facebook Addiction Scale: its psychometric properties and invariance among women with eating disorders. *BMC women's health* **2022**, *22*, 99, [doi:10.1186/s12905-022-01677-2](https://doi.org/10.1186/s12905-022-01677-2).
- 🍷 Al-Amer, R.; Malak, M.Z.; Burqan, H.M.R.; Stănculescu, E.; Nalubega, S.; Alkhamees, A.A.; **Hendawy, A.O.**; Ali, A.M. Emotional Reaction to the First Dose of COVID-19 Vaccine: Postvaccination Decline in Anxiety and Stress among Anxious Individuals and Increase among Individuals with Normal Prevaccination Anxiety Levels. *Journal of personalized medicine* **2022**, *12*, [doi:10.3390/jpm12060912](https://doi.org/10.3390/jpm12060912).
- 🍷 Ali, A.M.; Alameri, R.A.; **Hendawy, A.O.**; Al-Amer, R.; Shahrour, G.; Ali, E.M.; Alkhamees, A.A.; Ibrahim, N.; Hassan, B.H. Psychometric evaluation of the depression anxiety stress scale 8-items (DASS-8)/DASS-12/DASS-21 among family caregivers of patients with dementia. *Front Public Health* **2022**, *10*, 1012311, [doi:10.3389/fpubh.2022.1012311](https://doi.org/10.3389/fpubh.2022.1012311).
- 🍷 Miyai, S.; **Hendawy, A.O.**; Sato, K. Gene expression profile of peripheral blood mononuclear cells in mild to moderate obesity in dogs. *Veterinary and Animal Science* **2021**, *13*, 100183. <https://doi.org/10.1016/j.vas.2021.100183>.

- 🍯 Ali, A.M.; Kunugi, H.; Abdelmageed, H.A.; Mandour, A.S.; Ahmed, M.E.; Ahmad, S.; **Hendawy, A.O.** Vitamin K in COVID-19—Potential Anti-COVID-19 Properties of Fermented Milk Fortified with Bee Honey as a Natural Source of Vitamin K and Probiotics. *Fermentation* **2021**, *7*, 202, [doi:10.3390/fermentation7040202](https://doi.org/10.3390/fermentation7040202).
- 🍯 Ali, A.M.; **Hendawy, A.O.**; Almarwani, A.M.; Alzahrani, N.; Ibrahim, N.; Alkhamees, A.A.; Kunugi, H. The Six-Item Version of the Internet Addiction Test: Its Development, Psychometric Properties, and Measurement Invariance among Women with Eating Disorders and Healthy School and University Students. *International Journal of Environmental Research and Public Health* **2021**, *18*, 12341, doi.org/10.3390/ijerph182312341.
- 🍯 Ali, A.M.; Ali, E.M.; Mousa, A.A.; Ahmed, M.E.; **Hendawy, A.O.** Bee honey and exercise for improving physical performance, reducing fatigue, and promoting an active lifestyle during COVID-19. *Sports Medicine and Health Science* **2021**, doi.org/10.1016/j.smhs.2021.06.002.
- 🍯 Ali, A.M.; Ali, E.M.; Ahmed, M.E.; **Hendawy, A.O.** Targeting gut microbiome and the recovery of muscle loss associated with cancer (cachexia): An overview of the possible effect of bee products. *Medico Legal Update* **2021**, *21*, 163-171, [doi:10.37506/mlu.v21i2.2665](https://doi.org/10.37506/mlu.v21i2.2665).
- 🍯 Ali, A.M.; **Hendawy, A.O.**; Ahmad, O.; Al Sabbah, H.; Smail, L.; Kunugi, H. The Arabic Version of the Cohen Perceived Stress Scale: Factorial Validity and Measurement Invariance. *Brain sciences* **2021**, *11*, [doi:10.3390/brainsci11040419](https://doi.org/10.3390/brainsci11040419).
- 🍯 **Hendawy, A.O.**; Khattab, M.S.; Sugimura, S.; Sato, K. Effects of 5-Aminolevulinic Acid as a Supplement on Animal Performance, Iron Status, and Immune Response in Farm Animals: A Review. *Animals* **2020**, *10*, 1352. doi.org/10.3390/ani10081352
- 🍯 **Hendawy, A.O.**; Mansour, M.; Moharam, M.; Nour El Din, A.N.M. Effects of Herbal-Plant Supplementation During Pregnancy on Ewes' Blood Parameters and Lambs' Birth Weight. *Archives of Animal Husbandry & Dairy Science* **2020**, *2*, AAHDS.MS.ID.000531, doi.org/10.33552/AAHDS.2020.02.000531.
- 🍯 **Hendawy, A.O.**; Shirai, M.; Takeya, H.; Sugimura, S.; Miyanari, S.; Taniguchi, S.; Sato, K. Effects of 5-aminolevulinic acid supplementation on milk production, iron status, and immune response of dairy cows. *Journal of dairy science* **2019**, *102*, 11009-11015, doi.org/10.3168/jds.2018-15982.
- 🍯 Ishii, T.; Shibata, K.; Kai, S.; Noguchi, K.; **Hendawy, A.O.**; Fujimura, S.; Sato, K. Dietary Supplementation with Lysine and Threonine Modulates the Performance and Plasma Metabolites of Broiler Chicken. *Journal of Poultry Science* **2019**, *56*, 204-211, doi.org/10.2141/jpsa.0180104.

- 🍯 **Hendawy, A.O.;** Mansour, M.; El-Din, A.N. Effects of medicinal plants on haematological indices , colostrum , and milk composition of ewes. *Journal of Veterinary Medicine and Animal Sciences* **2019**, 2, 1008.
- 🍯 Ali, A.M.; **Hendawy, A.O.** Royal jelly acid, 10-hydroxy-trans-2-decenoic acid, for psychiatric and neurological disorders: how helpful could it be?! *Edelweiss Food Sci Tech* **2019**, 1: 1-4
- 🍯 Ali, A.M.; Hassan, A.A; **Hendawy, A.O.** The Adverse Effects of Antidepressant Medication Treatments on the Offspring of Women with Perinatal Depression. *Sci J Research & Rev.:* **2019**, 1(2), SJRR.MS.ID.000509.
- 🍯 Ali, A.M.; **Hendawy, A.O.** So Antidepressant Drugs have Serious Adverse Effects, but what are the Alternatives?. *Nov Appro Drug Des Dev* **2018**; 4(3): 555636. doi.org/10.19080/NAPDD.2018.04.555636.
- 🍯 Ali, A.M.; **Hendawy, A.O.** Bee Honey as a Potentially Effective Treatment for Depression: A Review of Clinical and Preclinical Findings. *JOJ Nursing & Health Care* **2018**, 9.
- 🍯 Mansour, M.M.; **Hendawy, A.O.;** Zeitoun, M.M. Effect of mastitis on luteal function and pregnancy rates in buffaloes. *Theriogenology* **2016**, 86, 1189-1194, doi.org/10.1016/j.theriogenology.2016.04.009.

Book Chapters

- 🍯 **Hendawy, A.O.;** Ahmed, M.E.; Sallam S.M.A.; Sato, K. **(2026)**. Propolis, a natural feed additive, for animal health and production in ruminants. In: Simões, J. (eds) *Encyclopedia of Livestock Medicine for Large Animal and Poultry Production*. Springer, Cham. (Accepted)
- 🍯 **Hendawy, A.O.;** Sato, K.; Ahmed, M.E.; Zeid, S.; Sallam S.M.A. **(2026)**. Metagenomics of Rumen Microbiota in Livestock: Implications for Nutrition, Health, and Productivity. In: Hesham, A.E.; Gadow, S.I.; Sharma; M.; Diwan, D. (eds) *Metagenomics in Biotechnology: Environmental, Industrial, and Clinical Applications*. Academic Press/Elsevier. (Under review).
- 🍯 **Hendawy, A.O.;** Elfadadny, A., Abd El-Aziz, A.H.; Islam, M.A. **(2026)**. Metabolic and Oxidative Challenges During Pregnancy and Lactation in Ruminants. In: Simões, J. (eds) *Encyclopedia of Livestock Medicine for Large Animal and Poultry Production*. Springer, Cham. (Under review).

Presentations at scientific conferences

- 🍯 **Hendawy, A.O.;** Shirai, M.; Takeya, H.; Miyanari, S.; Sato, K. The effects of 5-aminolevulinic acid supplementation on rumen fermentation and performance of dairy cows. In *Proceedings of The 124th Annual Meeting of Japan Society of Animal Science*, Faculty of Agriculture, University of Tokyo; p. 121.

- 🏆 **Hendawy, A.O.;** Shirai, M.; Takeya, H.; Miyanari, S.; Sato, K. Evaluation of the effect of 5-aminolevulinic acid on iron status of plasma and milk in dairy cows. In Proceedings of Conference: International Symposium on Biological Material Science for Agriculture and Engineering, Tokyo University of Agriculture and Technology; p. 11.
- 🏆 The 15th scientific conference of the Egyptian Society of Animal Production (ESAP) held at the Faculty of Agriculture, Fayoum University on 28th April 2011.

Foreign languages spoken and computer skills

- 🏆 Arabic: fluent, written and spoken (native tongue).
- 🏆 Fluent at English with academic IELTS from the British Council with a score of 6 (2015).
- 🏆 ICDL Feb. 2010.
- 🏆 Controlling different statistical and data management tools such as SPSS and RevMan.