KINGDOM OF SAUDI ARABIA
Ministry of Education
KING ABDULAZIZ UNIVERSITY

CV of the Research Group Member: Awad Ali Shehata (CO-PI)

Name	Awad Ali Shehata
University id	
National / Igama Id	German (National ID: L84FNH409)
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College/Center	PerNaturam GmbH
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GENERAL INFO

Address: *PerNaturam GmbH, An der Trift 8, 56290 Gödenroth, Germany*
Personal Data (Date and place of birth, family status):
Date of birth: **1975, Egypt**
Family status: Married and have 3 children.

EDUCATION

- **Habilitation**, Faculty of Veterinary Medicine, Leipzig University, Germany, Specialization "**Bacteriology and Avian Diseases**. Germany, 2015
- **Dr. vet. Med.,** Faculty of Veterinary Medicine, Leipzig University, Germany, Virology, (***Magna cum Laude). Germany, 2011.***
- **Master in Avian Virology, Avian and Rabbit Diseases Department, Faculty of Veterinary Medicine, University of Sadat City, Egypt. 2005.**
- Bachelor in Veterinary Medicine, Alexanderia University, Egypt, 1998.

OTHER EDUCATION DEGREES (selected)

- Phytotherapie, Bonn, Germany 2021.
- Certified GMP, Germany, 2019

- Certified Quality Manager, Germany, 2019
- Certified Quality Auditor, Germany, 2019
- Certified FELASA-B Germany, 2019
- Certified FELASA-C, Germany, 2019
- Certified Trainer of Trainer, (IBCT), Netherlands 2018

PRESENT POSITIONS

- Avian and Rabbit Diseases Department, Faculty of Veterinary Medicine, Egypt,
- Head of Research and Development Section, PerNaturam GmbH, Germany

AWARDS AND HONORS

- Principle Investigator for PRIMA Project: Development of phytogenic products“. (Partnership for Research and Innovation), Fund 1.800.000,00 EURO, (2020-2025).
- Principle Investigator of the Project „Indikationserweiterung und Indikationssichererung von Colovomin: Einfluss von Huminstoffen auf Wachstum von Leitkeimen des Dünndarms und des Dickdarms des Menschen“, 50,000 EURO (2017-2018)
- Principle Investigator of the STDF- Project „Development of novel probiotic strains to improve poultry performance“ 1.000.000,00 LE (2016-2017).
- Principle Investigator of the STD- Project: „Development of live attenuated metabolic drift Salmonella vaccine“ 1.000.000,00 LE, 2014-2015.
- Travel-Scholarship, 4th European Congress of virology, 7-11. April. Villa Erba Congress Centre, Cernobbio, Como Lake, Italy 2010
- Scholarship from the High Education Ministry 2006.
- Preis der besten Masterarbeit in Ägypten, 2006

MEMBERSHIPS

- World Poultry Science Society.
- Egyptian Poultry Science Society.

APPOINTMENTS

- **Professor**: Department of Avian and Rabbit Diseases, Faculty of Veterinary Medicine, Sadat City University Egypt, 2021.

- **Associate Professor.** Faculty of Veterinary Medicine, Sadat City University, Egypt. 2016.
- **Lecturer and Researcher** at Leipzig University, Germany **2011**-2016

MAIN RESEARCH OR TECHNOLOGY TOPICS

- Development of vaccines (inactivated, live attenuated viral and bacterial vaccines, molecular-based vaccines).
- Development of alternative antimicrobials.
- Epidemiology and molecular epidemiology

COLLABORATION (SELECTED)

- Faculty of Veterinary Medicine, University of Sadat City, Egypt
- Bursa Technical University, Bioengineering Department (BURSA), Turkey
- University of Patras, Department of Environmental Engineering (UPAT)
- University of La Rioja, Faculty of Science and Technology, Agriculture and Food Department (UR), Spain
- University of La Rioja, Faculty of Science and Technology, Agriculture and Food Department (UR), Tunisia
- Ankara University, Faculty of Agriculture, Department of Fisheries and Aquaculture Engineering (AU), Turkey
- National Hellenic Research Foundation, Institute of Chemical Biology (NHRF), Greece
- Technische Universität Münch (TUM)
- Department of Poultry Science and The Center of Excellence for Poultry Science, University of Arkansas, Fayetteville, AR, USA
- PerNaturam GmbH, Germany

PUBLICATIONS AND JOURNALS

(Total Number of publication= 75, Patent 3)

RECENT RELEVANT 2015-2021

1. Dawod A, Osman N, Heikal HS, Ali KA, Kandil MO, **Shehata AA,** Hafez HM, Mahboub H. Impact of Nano-Bromocriptine on Egg Production Performance and Prolactin Expression in Layers. Animals 11(10):284 DOI:10.3390/ani11102842. (IF=2.75).
2. **Shehata AA,** Basiouni S, Sting R, Akimkin V, Hoferer M, Hafez HM. Poult enteritis and mortality syndrome in turkey poults: Causes, diagnosis and preventive measures (2021) Animals 2021, 11, 2063. https://doi.org/10.3390/ani11072063 (IF=2.75).

3. Dawod A, Fathalla S, Elkhatam A, Osman A, Abosheraiba N, Hammad MA, El-Seedi H, **Shehata AA,** Anis, A. UPLC-QToF nanospray MS and NMR analysis of *Ficus sycomorus* and its effects on rabbit performance. Processes 2021, 9, 1201. https://doi.org/10.3390/pr9071201 (IF= 2.8).
4. A Nagy, S Basiouni, R Parvin, HM Hafez, AA Shehata (2021) Evolutionary insights into the furin cleavage sites of SARS-CoV-2 variants from humans and animals. Archives of Virology, 1-9 (IF= 2.574).
5. Tarabees R, HM Hafez, **Shehata AA**, Allam TS, Setta A, ELsayed MSA. Effects of Probiotic and/or Prebiotic Supplementations on Immune Response, Haematology, Oxidant-antioxidant Biomarkers, and Cytokine mRNA Expression Levels in the Caeca of Broilers Infected with *Salmonella*. Poultry Science Journal, 9: 1, 41-52. (IF=0.6)
6. Hafez M, and **Shehata AA** (2021). Turkey production and health: current challenges. German Journal of Veterinary Research, 1(1):3-14.
7. **Shehata AA**, Lüchow D, Hafez M Hafez (2021). History and current-status of Marks Disease. German Journal of Veterinary Research, (in Press)
8. Elsayed MSAE, **Shehata AA**, Ammar AM, Allam TS, Ali AS, Ahmed RH (2021). The beneficial effects of a multistrain potential probiotic, formic, and lactic acids with different vaccination regimens on broiler chickens challenged with multidrug. Saudi Journal of Biological Sciences. (IF=2.8).
9. Elaswad A, Fawzy M, Basiouni S, **Shehata AA** (2020). Mutational spectra of SARS-CoV-2 isolated from animals. PeerJ MS 2020:07:51554:1 (accepted) (IF= 3.09).
10. Helmy YA, Fawzy M, Elaswad A, Sobieh A, Kenney SP, **Shehata AA** (2020). The COVID-19 Pandemic: A comprehensive review of taxonomy, genetics, epidemiology, diagnosis, treatment, and control. J Clin Med. 9(4). pii: E1225. (IF= 5.688).
11. Tazerji S, Duarte P. Rahimi P, Shahabinejad F, **Shehata AA,** … (2020). Transmission of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) to animals: an updated review. Journal of Translational Medicine 18(1). DOI: 10.1186/s12967-020-02534-2. (IF= 4.197).
12. Moharam I, Sultan H, Hassan K, Ibrahim M, Shany S, **Shehata AA**, Abo-ElKhair M, Pfaff F, Höper D, El Kady M, Beer M, Harder T, Hafez H, Grund C. Emerging infectious bronchitis virus (IBV) in Egypt: Evidence for an evolutionary advantage of a new S1 variant with a unique gene 3ab constellation. Infect Genet Evol. 2020 Nov;85:104433. doi: 10.1016/j.meegid.2020.104433. Epub 2020 Jul 1. (IF=2.61)
13. Basiouni S, Fayed MAA, Tarabees R, EL-Sayed M, Elhakam A, Töllner KR, Hessel M, Geisberger T, Huber C, Eisenreich W, **Shehata AA** (2020). Characterization of sunflower Oil extracts from the lichen *Usnea barbata*. Metabolites, 10(9), 353. (IF=4.09).
14. **Shehata AA**, Basiouni S, Ali A, M Fawzy, HM Hafez (2020). Immunization of turkeys with a DNA vaccine expressing the haemagglutinin gene of low pathogenic avian influenza virus subtype H9N2. Journal of Virological Methods 284, 11 (IF= 1.746

15. **Shehata AA,** Tarabees R, Saby M. Wareth G, Basiouni S (2020). Development of *Salmonella* Enteritidis vaccine candidate based on streptomycin independent suppressor and metabolic drift rifampicin resistance-attenuating markers, Heliyon 6 (2020) e04810 (IF=1.65).

16. Benrabia I, Hamdi TM, **Shehata AA**, Neubauer H, Wareth G (2020). Methicillin-Resistant *Staphylococcus Aureus* (MRSA) in poultry species in Algeria: Long-term study on prevalence and antimicrobial resistance. Vet Sci 7(2). pii: E54. doi: 10.3390/vetsci7020054. (IF= 1.34).

17. Tarabees R, El-Sayed MS, **Shehata AA**, Diab MS (2020). Effects of the probiotic candidate *E. faecalis*-1, the Poulvac *E. coli* Vaccine, and their combination on growth performance, caecal microbial composition, immune response, and protection against *E. coli* O78 challenge in broiler chickens. Probiotic Antimicrob Proteins doi: 10.1007/s12602-019-09588-9. (IF= 2,345).

18. **Shehata AA**, Tarabees R, Basiouni S, El-Sayed MS, Gaballah A, Krueger M (2020). Effect of a Potential Probiotic Candidate *Enterococcus faecalis*-1 on Growth Performance, Intestinal Microbiota, and Immune Response of Commercial Broiler Chickens. Probiotics Antimicrob Proteins doi: 10.1007/s12602-019-09588-9. (IF= 2.345).

19. **Shehata AA**, Sedeik ME, Elbestawy AR, Zain El-Abideen MA, Ibrahim HH, Kilany WH, Ali A (2019) Co-infections, genetic, and antigenic relatedness of avian influenza H5N8 and H5N1 viruses in domestic and wild birds in Egypt. Poult Sci doi: 10.3382/ps/pez011 (IF=2.215).

20. Sultan HA, Arafa AM, talaat M, Gaballa A, Kilany WH, Elfeil WK, **Shehata AA** (2019). Efficacy of clade2. 3.2 H5-recombinant baculovirus vaccine in protecting muscovy and pekin ducks from clade 2.3. 4.4 H5N8 highly pathogenic avian Influenza infection. Avian Diseases https://doi.org/10.1637/11880-042718-Reg.1 (IF= 1.328).

21. Ali A, Safwat M, Kilany WH, Nagy A, **Shehata AA** (2019). Combined H5ND inactivated vaccine protects chickens against challenge by different clades of highly pathogenic avian influenza viruses' subtype H5 and virulent Newcastle disease virus. Veterinary World 12 (1): 97-105, (IF=1.127).

22. **Shehata AA**, Tarabees R, Gafar KM, El-Sayed MS (2019). Characterization of prevalent serotypes, virulence genes, and antimicrobial resistance of *Salmonella* from multiple sources. Pakistan Veterinary Journal. (IF=1. 127).

23. Tarabees R, Gafar KM, El-Sayed MS, **Shehata AA,** Ahmed M (2019). Effects of dietary supplementation of probiotic mix and prebiotic on growth performance, cecal microbiota composition, and protection against *Escherichia coli* O78 in broiler chickens. Probiotics Antimicrob Proteins. 2018. doi: 10.1007/s12602-018-9459-y (IF= 2.345).

24. ELsayed M, Abd-Elraheam L, Tarabees R, **Shehata AA**, Harb OA, Sabry A (2019). Virulence repertoire and antimicrobial resistance of *Campylobacter jejuni* and *Campylobacter coli* isolated from some poultry farms in Menoufia governorate, Egypt. Pakistan Veterinary Journal 39(2):2074-7764. (IF=1, 27).

25. Salem HM, Morsy EA, Hassanen EI, **Shehata AA** (2019). Outbreaks of myxomatosis in Egyptian domestic rabbit farms. World Rabbit Science, DOI: 10.4995/WRS.2019.10585. (IF=0.648).

26. **Shehata AA**, Sultan H, Halami MY, Talaat S, Vahlenkamp TW (2017). Molecular characterization of very virulent infectious bursal disease virus strains circulating in Egypt from 2003 to 2014. Arch Virol 162(12):3803-3815. (IF= 2.16).

27. Tarabees R, Elsayed MSA, Shawish R, Basiouni S, **Shehata AA** (2017) Isolation and characterization of *Salmonella* Enteritidis and *Salmonella* Typhimurium from chicken meat in Egypt. J Infect Dev Ctries 2017; 11(4):314-319 (IF=1).

28. **Shehata AA**, Tarabees R, Basiouni S, Gamil M, Kamal AS, Krüger M (2017). Phenotypic and genotypic characterization of bacteriocinogenic Enterococci against *Clostridium botulinum*. Probiotics Antimicrob Proteins 2017; 9(2):182-188. (IF= 2.345)

29. Tarabees R, Elsayed MSA, Shawish R, Basiouni S, **Shehata AA** (2017). Isolation and characterization of *Salmonella* Enteritidis and *Salmonella* Typhimurium from chicken meat in Egypt. J Infect Dev Ctries 2017; 11(4):314-319. (IF=1).

30. **Shehata AA,** Herrmann K, Pfalz T, Hafez MH, Schrödl W, Krüger M (2017). Efficacy of cold fogging and oral herbal extracts on air quality and immune response of broilers. Aerobiologia, DOI: 10.1007/S10453-016-9448-0. (IF= 2.78).

31. **Shehata AA,** Dorrestein M. Gerry, Vahlenkamp T (2016). Goose Parvovirus and Circovirus Coinfections in Ornamental Ducks. Avian Dis 2016; 60 (2):516-22. (IF= 1.328).

32. Fiebig P, **Shehata AA,** Liebert UG (2015). Generation and characterization of monoclonal antibodies to H5N1 influenza virus using recombinant virus peptides, Veterinary Research doi: 10.1016/j.virusres.2015.01.006. (IF= 2.94).

33. Begum JA, Sieg M, Heenemann K, Shehata AA, Liebert UG, Vahlenkamp T (2015). Expression and characterization of the hemagglutinin gene of avian influenza virus subtype H9 in the protozoan host Leishmania tarentolae. J Vet Med Res 4(10): 1112. ISSN: 2378-931X.

34. Parvin R, **Shehata AA,** Heenemann K, Gac M, Rueckner A, Halami MY, Vahlenkamp T (2015). Replication efficiency analysis of avian influenza H9N2 in two different biological systems. Virus Research 46/75 DOI 10.1186/s13567-015-0198-8. (IF=2.484).

35. Hesham A, Elzoghbi E, **Shehata AA** (2018) Process validation and critical regulatory requirements in manufacturing of inactivated veterinary vaccines. Journal of Pharmaceutical Research, DOI: 10.33140/JPR.03.02.2.

36. Krüger M, **Shehata AA**, Schrödl W, Haufe S (2015) Huminsäuren beeinflussen die antibakterielle Wirkung des Totalherbizids Glyphosat auf die Fäkalflora und die Ausscheidung über den Urin. OM & Ernährung 2015 | Nr. 153.

37. **Shehata AA,** Sultan H, Abd El-Razik AG, Halami Y, Talat S, Heenemann K, Vahlenkamp T (2015). Isolation and full genome characterization of avian influenza subtype H9N2 from poultry respiratory disease outbreak in Egypt, Virus Genes DOI: 10.1007/s12223-015-0381-3. (IF=1.542).

38. Ibrahim M, Sultan HA, Razik AG, Kang KI, Arafa AS, **Shehata AA,** Saif YM, Lee CW (2015). Development of broadly reactive H5N1 vaccine against different Egyptian H5N1 viruses. Vaccine 33(23):2670-7. (IF=3.285).

39. Wareth G, Böttcher D, Melzer F, **Shehata AA,** Roesler U, Neubauer H, Schoon HA (2015). Experimental infection of chicken embryos with recently described *Brucella microti*: Pathogenicity and pathological findings. Comp Immunol Microbiol Infect Dis 41:28-34. doi: 10.1016/j.cimid.2015.06.002. (IF=2.145).

40. Neuhaus J, Schrödl W, **Shehata AA**, Krüger M (2015). Detection of *Clostridium botulinum* in liquid manure and biogas plant wastes. Folia Microbiol (Praha). 2015; 60(5):451-6. (IF= 1.448).

41. Ackermann W, Coenen M, Schrödl W, **Shehata AA,** Krüger M (2015). The influence of glyphosate on the microbiota and production of botulinum neurotoxin during ruminal fermentation. Curr Microbiol 2015; 70(3):374-82. (IF= 1.595).

42. Wareth G, Böttcher D, Melzer F, **Shehata AA,** Roesler U, Neubauer H, Schoon HA (2015) Experimental infection of chicken embryos with recently described *Brucella microti*: Pathogenicity and pathological findings. Comp Immunol Microbiol Infect Dis 41:28-34. doi: 10.1016/j.cimid.2015.06.002. (IF= 2.154).

43. Schrödl W, Krüger S, Konstantinova-Müller T, **Shehata AA**, Rulff R, Krüger M (2015). Possible effects of glyphosate on Mucorales abundance in the rumen of dairy cows in Germany. Curr Microbiol. 2014; 69(6):817-23. (IF= 1.595).

44. Sultan H, Abd El-Razik AG, **Shehata AA,** Mahmoud G, Vahlenkamp T, Moharam I, Vahlenkamp T (2015). Molecular characterization of infectious bronchitis virus from Egyptian chickens during 2012 and 2013. J Vet Sci Med Diagn 2015, 4:5 (IF= 0.65).