

Curriculum Vitae

Personal information

Name Seham Mohammed Khalil Elkassas
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Date and place of Birth 02/01/1985, Kafrelsheikh

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Education

- **Bachelor degree** of Veterinary Medical Science (B. V. Sc), May 2007, Faculty of Veterinary Medicine, Kafrelsheikh University, Egypt, May 2007.
- **Master degree** of Veterinary medical science (M.V.Sc) in Animal, Poultry and Fish Breeding and Production, March 2012, Faculty of Veterinary Medicine, Kafrelsheikh University, Egypt.
- **Title of master thesis:** "Selection for Increasing Four Weeks Body Weight and Correlated Response to Body Conformation and Carcass Traits in Japanese quail".



- **Ph.D** of Veterinary medical science in Animal, Poultry and Fish Breeding and Production, August 2016, Faculty of Veterinary Medicine, Kafrelsheikh University, Egypt.
- **Title of Ph.D thesis:** “Expression and Regulation of Cholecystokinin A Receptor in Chicken Immune System”.

Academic positions

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| 2008-2012 | Demonstrator of Animal, Poultry and Fish Breeding and Production at Department of Animal Wealth Development, Faculty of Veterinary Medicine, Kafrelsheikh University, Egypt |
| 2012-2016 | Assistant lecture of Animal, Poultry and Fish Breeding and Production at Department of Animal Wealth Development, Faculty of Veterinary Medicine, Kafrelsheikh University, Egypt. |
| 2016- 2021 | Lecturer of Animal, Poultry and Fish Breeding and Production at Department of Animal Wealth Development, Faculty of Veterinary Medicine, Kafrelsheikh University, Egypt. |
| 2021-till now | Assistant Professor of Animal, Poultry and Fish Breeding and Production at Department of Animal Wealth Development, Faculty of Veterinary Medicine, Kafrelsheikh University, Egypt. |
| 8-2022
now | -till Acting as Head of the Department of Animal Wealth Development, Faculty of Veterinary Medicine, Kafrelsheikh University, Egypt. |

Scholarships

- PhD Joint supervision scholarship at College of veterinary Medicine, Nursing and Allied Health , Tuskegee University , Tuskegee , Al, USA from January 25,2014 to January 24, 2016.
- Post-doc Visiting Scholar at School of Environment and Natural Resources (SENR), The Ohio State University, Ohio, USA from August 2019 to January, 2020.

Scientific Publications

1. Safaa E Abdo, Abeer F El-Nahas, Sally Abdelmenam, Mostafa A Elmadawy, Radi Mohamed, Mohamed Atef Helal, **Seham El-Kassas** (2022). The synergetic effect of Bacillus species and Yucca shidigera extract on water quality, histopathology, antioxidant, and innate immunity in response to acute ammonia exposure in Nile tilapia. Fish & Shellfish Immunology. Volume 128, Pages 123-135.
2. **Seham El-Kassas**, Nesreen Aljahdali, Safaa E Abdo, Fatima S Alaryani, Eman M Moustafa, Radi Mohamed, Wesam Abosheashaa, Esraa Abdulraouf, Mohamed Atef Helal, Manal E Shafi, Mohamed T El-Saadony, Karima El-Naggar, Carlos Adam Conte-Junior (2022). Moringa oleifera Leaf Powder Dietary Inclusion Differentially Modulates the Antioxidant, Inflammatory, and Histopathological Responses of Normal and Aeromonas hydrophila-Infected Mono-Sex Nile Tilapia (Oreochromis niloticus). *Front Vet Sci.* 2022; 9: 918933. doi: 10.3389/fvets.2022.918933.
3. Ali Raza Jahejo, Nazeer Hussain Kalhor, Hidayatullah Soomro, Jin Yu, Chen-liang Zhang, **Seham El-Kassas**, Sayed Haidar Abbas Raza, Jin-feng Zhao, Azizullah Memon, Lubna Ghani, Guan-bao Ning, Ding Zhang, Shu-ming Chen, Wen-xia Tian (2021). Dietary supplementation with Celecoxib to prevent the welfare problem of tibial dyschondroplasia in broiler chickens. *Livestock Science*, Volume 250, August 2021, 104568. <https://doi.org/10.1016/j.livsci.2021.104568>.
4. Haitham G. Abo-Al-Ela, **Seham El-Kassas**, Karima El-Naggar, Safaa E. Abdo, Ali Raza Jahejo & Rasha A. Al Wakeel (2021). Stress and immunity in poultry: light management and nanotechnology as effective immune enhancers to fight stress. *Cell Stress and Chaperones* volume 26, pages 457–472. DOI: <https://doi.org/10.1007/s12192-021-01204-6>
5. **Seham El-Kassas**, Safaa E Abdo, Wesam Abosheashaa, Radi Mohamed, Eman M Moustafa, Mohamed Atef Helal, Karima El-Naggar (2020). Growth performance, serum lipid profile, intestinal morphometry, and growth and lipid indicator gene expression

analysis of mono-sex Nile tilapia fed Moringa oleifera leaf powder. **Aquaculture Report**, 18, 10042. DOI: <https://doi.org/10.1016/j.aqrep.2020.100422>.

6. Osama A Sakr, Eldsoky Nassef, Sabreen E Fadl, Hazem Omar, Emad Waded, **Seham El-Kassas** (2020) "The Impact of Alpha-lipoic Acid Dietary Supplementation on Growth Performance, Liver and Bone Efficiency, and Expression Levels of Growth-Regulating Genes in Commercial Broilers. **J. World Poult. Res.**, 10 (2S): 172-179. DOI: <https://dx.doi.org/10.36380/jwpr.2020.22>.

7. Nagham ELSaidy, Abeer Kirella, **Seham El-Kassas**, Mahmoud A. O. Dawood & Fatma Abouelenien. (2020). Reducing the Abundance of Harmful Bacteria of Rooftop Tank–Stored Drinking Water Using Silver Nanoparticles and Acetic Acid and Its Impact on Japanese Quail Growth Performances. **Biol Trace Elem Res.** DOI: <https://doi.org/10.1007/s12011-020-02422-2>

8. Mahmoud Alagawany, Mayada R. Farag, Manal E. Sahfi, Shaaban S. Elnesr, Othman Alqaisi, **Seham El-Kassas**, Abdullah S. Al-wajeeh, Ayman E. Taha & Mohamed E. Abd E-Hack (2020) Phytochemical characteristics of Paulownia trees wastes and its use as unconventional feedstuff in animal feed, **Animal Biotechnology**, DOI: <http://10.1080/10495398.2020.1806074>

9. **Seham El-Kassas**, Safaa E Abdo, Karima El-Naggar, Walied Abdo, Abeer AK Kirrella, Ibrahim El-Mehaseeb , Mohammed Abu El-Magd (2020). Dietary Supplementation with Copper Oxide Nanoparticles Ameliorates Chronic Heat Stress in Broiler Chickens. **Animal Production Science** 60(2) 254-268. DOI: <https://doi.org/10.1071/AN18270>

10. Afaf D Abdel-Mageid, Abeer Gamal Zaki, Yakout A El Senosi, Hanan A Fahmy, Amel M El Asely, Haitham G Abo-Al-Ela, **Seham El-Kassas** (2020). Modulatory effect of lipopolysaccharide on immune-related gene expression and serum protein fractionation in grey mullet, *Mugil cephalus*. **Aquaculture Research**, 51(4), Pages 1643-1652. <https://doi.org/10.1111/are.14510>

11. Afaf D Abdel-Mageid, Abeer Gamal Zaki, Yakout A El

Senosi, Amel M El Asely, Hanan A Fahmy, **Seham El-Kassas**, Haitham G Abo-Al-Ela (2020). The extent to which lipopolysaccharide modulates oxidative stress response in Mugil cephalus juveniles. *Aquaculture Research* 51 (1), 426-431. [DOI: 10.1111/are.14309](https://doi.org/10.1111/are.14309).

12. Abdel-Hay Abdel-Hay, Sara Hamed, Mohamed Zayd, Fatma Abouelenien, Ibrahim Rehan, **Seham El-Kassas**, Amany Deyab, Radi Mohamed (2019). NIGHT FEEDING REGIME IMPROVES WATER QUALITY, GROWTH PERFORMANCE AND FEEDING BEHAVIOUR OF EUROPEAN EELS, *Anguilla*. *Slovenian Veterinary Research* Vol 56, Suppl 22. [DOI:10.26873/SVR-799-2019](https://doi.org/10.26873/SVR-799-2019)

13. Mostafa A Elmadawy, **Seham El-Kassas**, Safaa E Abdo, Atsushi Nagai, Yasuo Bunai (2019). GENETIC DIVERSITY AMONG TWO COMMON POPULATIONS OF CANIS LUPUS FAMILIARIS IN EGYPT BY USING MITOCHONDRIAL DNA HVR1 SEQUENCE. *Slov Vet Res* 2019; 56 (Suppl 22): 75–85. [DOI 10.26873/SVR-745-2019](https://doi.org/10.26873/SVR-745-2019).

14. KarimaEl-Naggar, **SehamEl-Kassas**, Safaa E.Abdo, Abeer A.K.Kirrella, Rasha A.Al wakeel (2019). Role of gamma-aminobutyric acid in regulating feed intake in commercial broilers reared under normal and heat stress conditions. *Journal of Thermal Biology*. Volume 84, August 2019, Pages 164-175. DOI: <https://doi.org/10.1016/j.jtherbio.2019.07.004>

15. **Seham El-Kassas**, Safaa E Abdo, Karima El-Naggar, Walied Abdo, Abeer AK Kirrella, Toufic O Nashar (2018). Ameliorative Effect of Dietary Supplementation of Copper Oxide Nanoparticles on Inflammatory and Immune Responses in Commercial Broiler under Normal and Heat-Stress Housing Conditions. *Journal of Thermal Biology*. Volume 78, December 2018, Pages 235-246. <https://doi.org/10.1016/j.jtherbio.2018.10.009>.

16. AF El-Nahas, WM Basony, **S El-Kassas**, and S Mahmoud (2018). Variation in the Genetic Effects of ABCG2, Growth Hormone and Growth Hormone Receptor Gene Polymorphisms on Milk Production Traits in Egyptian Native, Holstein and Hybrid Cattle Populations. *Pak Vet J*, 2018, 38(4): 371-376. [DOI: 10.29261/pakvetj/2018.089](https://doi.org/10.29261/pakvetj/2018.089) .

17. Safaa Abdo, **Seham El-Kassas***, Abeer El Nahas, and Shawky Mahmoud (2017). Modulatory Effect of Monochromatic Blue Light on Heat Stress Response in Commercial

(2017), Article ID 1351945, 13 pages <https://doi.org/10.1155/2017/1351945>

18. **El-Kassas S**, Odemuyiwa S, Hajishengallis G, Connell TD, Nashar TO (2016) Expression and Regulation of Cholecystokinin Receptor in the Chicken's Immune Organs and Cells. *J Clin Cell Immunol* 7: 471. [doi:10.4172/2155-9899.1000471](https://doi.org/10.4172/2155-9899.1000471).
19. **El-Kassas, S.**, Faraj, R., Martin, K., Hajishengallis, G., Connell, T. D., and Nashar, T., 2015. Cell clustering and delay/arrest in T-cell division implicate a novel mechanism of immune modulation by E. coli heat-labile enterotoxin B-subunits. *Volume* 295, *Issue* 2, *June* 2015, *Pages* 150-162. DOI: <https://doi.org/10.1016/j.cellimm.2015.02.014>
20. Radi Mohamed, Sherif ElKholya, Mustafa Shukry, **El-Kassas S**, Nagham Saidy (2017) Manipulation of Broiler Growth Performance, Physiological and Fear Responses Using Three Monochromatic LED lights. *Alexandria Journal of Veterinary Sciences (AJVS)*. Vol. 53: 57-62. April 2017. [DOI: 10.5455/ajvs.263048](https://doi.org/10.5455/ajvs.263048).
21. **Seham Elkassas**, Jasmyne Davis, , and Toufic Nashar. Control of Appetite in Chickens: Expression of CCKA Receptor Correlates with Immunological Parameters. 16th Annual Biomedical Research Symposium , College of veterinary Medicine, Nursing and Allied Health , Tuskegee University , Tuskegee , Al, USA. September 17-18. 2015.
22. **Seham Elkassas**, Jasmyne Davis, Solomon Odemuyiwa, and Toufic Nashar. The Immune Status in Chickens is a Factor that May Control Appetite. NIH-MERIAL symposium, UC Davis School of Veterinary Medicine, University of California, Davis, CA, USA. From 30th July to 2nd of August 2015.
23. Rawah Faraj, Toufic Nashar, **Seham El-Kassas**, Karmarcha Martin, George Hajishengallis and Terry D Connell. Novel mechanisms of adjuvantcity implied from in-vitro studies with bacterial toxins. 9th Vaccines & Vaccination. From November 30-December 02, 2015 San Francisco, USA.
24. **Seham Elkassas**, M. M. Sharaf, and A. A. Mansour. 2012. Selection for increasing four weeks body weight in Japanese quails. *Kafrelsheikh Vet. Med. J.* Vol. 11 No.2.



25. Published genes on GenBank databases: 1- 1-

<https://www.ncbi.nlm.nih.gov/nuccore/?term=El+kasas>

<https://www.ncbi.nlm.nih.gov/nuccore/?term=El+kassas>

<https://www.ncbi.nlm.nih.gov/nuccore/ON638900.1>

<https://www.ncbi.nlm.nih.gov/nuccore/ON638901.1>

Scientific awards

- Kafrelsheikh University award for international publication, 2016-2017.
- Kafrelsheikh University award for international publication, 2017-2018.
- Kafrelsheikh University award for international publication, 2018-2019
- Kafrelsheikh University award for international publication, 2019-2020
- Kafrelsheikh University award for international publication, 2020-2021

Research interests

- Investigating the impact of nutrition and management on chicken and other life stock growth and performance.
- Impact of feeding on improving chicken and other life stock immune response.
- Genetic Improvement of the poultry growth.
- Immune-regulation of poultry and animal growth.
- Immunogenic selection of highly resistant chicken.
- Genetic Improvement of milk and meat composition of cattle.