





Mona Nasr Abdelnaeim Hussein

Professor

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Innovative professor bringing proven success in implementing technology-based curriculum delivery and assessment tools. Passionate about fastening academic development and success for every student.

Skills

Lectures presentations
Students evaluation
Academic research
publication
Online teaching
course design
Time managment
Team leadership
Theses supervision

Work history

2024-09- current *Professor of Histology and cytology
Faculty of veterinary medicine, Benha University, Benha,
Egypt*

2019-07 to 2024-09 *Assistant professor of Histology and cytology
Faculty of veterinary medicine, Benha University, Benha,
Egypt*

Supported multidisciplinary research teams focused on scholarly publications.

Used variety of learning modalities and support materials to facilitate learning process.

Demonstrated strong interpersonal and communication skills, resulting in clear subject matter discussion with students.

Theses supervision, I finished supervision of one master thesis and currently I'm supervisor on 3 master theses and one doctorate thesis.

2018-05 to 2020-05

Postdoctoral scholarship

College of veterinary medicine, Huazhong agricultural university, China

Contributed to high-impact publications by collaborating with fellow researchers and providing critical input.

Optimized laboratory processes to ensure accurate results and efficient use of resources.

Applied advanced statistical techniques to analyze complex datasets, revealing novel insights into the subject matter.

Stereotactic surgery in mice brain, for virus injection, for characterization of neuronal circuits and their function analysis.

Tissue sectioning by vibratome and cryostat for immunofluorescence staining

2016-5 to 2018-5

Postdoctoral scholarship

College of Fisheries, Huazhong agricultural university, China

Conducted independent histology research to obtain short and long term objectives.

Analyzed results using analytical software and created reports.

Prepared reagents and solutions following standard laboratory formulas and procedures.

Collaborated with researchers and scientists to design and execute experiments.

Tissue processing, sectioning, and staining of ordinary and histochemistry stains, immunohistochemistry, and immunofluorescence.

RNA extraction, and reverse transcription to cDNA.

Gene cloning, 3 race and 5 race technique for obtaining new gene sequences.

Gene expression analysis by using real-time PCR and semi-quantitative PCR.

Fluorescent in situ hybridization technique for gene expression analysis at tissue level.

Published research in Sci journals.

2014-6 to 2016-04

Lecturer

Faculty of veterinary medicine, Benha university, Egypt.

Implemented differentiated instruction methods to accommodate diverse students learning styles.

Evaluated students progress through regular assessments, providing detailed feedback for improvement and growth.

Performed experiments, wrote manuscripts, and published research articles in different scientific journals.

2009-11 to 2014-6

Assistant lecturer

Faculty of veterinary medicine, Benha university, Egypt.

Performed tissue sectioning and staining by different histochemical stain and ultrastructure studies for obtaining Ph.D. degree.

Teach practical courses for students.

Maintained accurate records of students attendance, participation, assignments, and grades while adhering to strict confidentiality standards.

2006-3 to 2009-10

Demonstrator

Faculty of veterinary medicine, Benha university, Egypt.

Teach practical courses for students.

Performed tissue sectioning, staining by different histochemical stain and ultrastructure studies for obtaining master degree.

Improved laboratory efficiency by developing standard operating procedures for common tasks and equipment usage.

Education

2014-05	Ph.D.: Histology And Cytology <i>Faculty of Veterinary Medicine, Benha University - Egypt</i>
2009-10	Master Degree: Histology And Cytology <i>Faculty of Veterinary Medicine, Benha University - Egypt</i>
2005-12	Bachelor of Veterinary Sciences: Veterinary Medicine <i>Faculty of Veterinary Medicine, Benha University - Egypt</i>

Software

Computer	■ ■ ■ ■ ■
Graphpad prism software	■ ■ ■ ■ ■
Adobe photoshop	■ ■ ■ ■ ■
Primer premier software	■ ■ ■ ■ ■

Languages

Arabic: Native language	■ ■ ■ ■ ■ ■ ■
English	Advanced (C1)
French	■ ■ ■ ■ ■ ■ ■ Beginner (A1)
Chinese (Mandarin)	■ ■ ■ ■ ■ ■ ■ Beginner (A1)



List of publications

- 1- **Mona N. Hussein** (2024). Labeling of the serotonergic neuronal circuits emerging from the raphe nuclei via some retrograde tracers. Microscopy research and techniques, 2024 Jul 23. [doi: 10.1002/jemt.24662](https://doi.org/10.1002/jemt.24662).
- 2- **Mona N. Hussein**, Xiao Ke, Gang Cao, Abdelfattah Selim (2024). Whole-brain mapping of sites and time of neuronal activation following lipopolysaccharide treatment. In press.
- 3- Rania A. Elkholy, **Mona N. Hussein***, Nahla A. Abou EL-Roos, and Fahim A.E. Shaltout (2024). Enhancing Microbiological and Histological Quality of Frozen Turkey Meat Using Vinegar. Egyptian journal of veterinary sciences: 1-8. [10.21608/ejvs.2024.291707.2118](https://doi.org/10.21608/ejvs.2024.291707.2118)
- 4- Asmaa S. Abd El-Naby, Amel M. El Asely, **Mona N. Hussein**, Khattaby A. A., Eman A. Sabry, Fatma Samir (2024). Fermented *Saccharomyces cerevisiae* Extracts (Hilyses®) modulate the growth performance, intestinal histomorphology, and physiological performance of Nile tilapia (*Oreochromis niloticus*) fingerling. Scientific reports, 14:12583. <https://doi.org/10.1038/s41598-024-62589-9>
- 5- Rania A. Elkholy, Nahla A. Abou EL-Roos, **Mona N. Hussein*** and Fahim A.E. Shaltout (2024). Differential microbiological quality on marketed frozen turkey breast and thigh meat. Egyptian journal of veterinary sciences. Vol. 56, issue 1. 1-10. <https://doi.org/10.21608/ejvs.2024.266925.1816>
- 6- Fahim A.E. Shaltout, Nada Kh. Elsayed, **Mona N. Hussein*** (2023). Characterization of the Protective Effect of Ginger against Frequent Freeze–thaw Cycles on Meat Products. Journal of advanced veterinary research. Vol. 13, issue 5. 785-792.
- 7- Fahim A.E. Shaltout, **Mona N. Hussein***, Nada Kh. Elsayed (2023). Histological Detection of Unauthorized Herbal and Animal Contents in Some

Meat Products. Journal of advanced veterinary research. Vol. 13, issue 2. 157-160.

- 8- Asmaa S. Abd El-Naby, Amel M. El Asely, **Mona N. Hussein**, Reham M. Fawzy, Mohsen Abdel-Tawwab. Stimulatory effects of dietary chia (*Salvia hispanica*) seeds on performance, antioxidant-immune indices, histopathological architecture, and disease resistance of Nile tilapia. **Aquaculture**. 2023; vol. 563 part 1, 738889. <https://doi.org/10.1016/j.aquaculture.2022.738889>.
- 9- **Mona N. Hussein***, Xiaojuan Cao and Amel M. El Asely (2021). Characterization of peroxisome proliferator-activated receptor at different stages of development of intestine, liver, spleen, pancreas and posterior kidney of the loach (*Misgurnus anguillicaudatus*). Egyptian Journal of Aquatic Biology & Fisheries. Vol. 25(4): 87 – 104. <https://doi.org/10.21608/ejabf.2021.186510>
- 10- **Mona N. Hussein**, Yang Li, Xiaojuan Cao, and Jie Mei (2021). Characterization of neural stem cells and proliferating cells in the brain of Loach (*Misgurnus anguillicaudatus*). Egyptian journal of histology. 2021;45(4):1288-1295. <https://doi.org/10.21608/ejh.2021.55093.1404>
- 11- Jinsong Yu, Yue Li, **Mona N. Hussein**, Zhongchao Wang, Jinxia Dai, Gang Cao (2021). Fiber Photometry of Neural Activity in Specific Neural Circuit. In: Fakhoury M. (eds) The Brain Reward System. Neuromethods, vol 165. Humana, New York, NY. https://doi.org/10.1007/978-1-0716-1146-3_16
- 12- **Mona N. Hussein**, Cao X, Elokil AA, Huang S. (2020). Characterisation of stem and proliferating cells on the retina and lens of loach (*Misgurnus anguillicaudatus*). Journal of Fish Biology. 2020; 96(1):102-110. <https://doi.org/10.1111/jfb.14189>
- 13- **Mona N. Hussein**, Aya H. Tantawy, Xiaojuan Cao (2020). Immunohistochemistry of PPAR α , PPAR γ and IFN γ in kidney tissues of african catfish (*clarias gariepinus*) at different seasons. Veterinary Medicine and Public Health Journal Vol 1 (1) 22-29 <https://doi.org/10.31559/vmph2020.1.1.5>

- 14- Abdelmotaleb A. Elokil, Ali A. Bhuiyan, Hua-Zhen Liu, **Mona N. Hussein**, Hafiz I. Ahmed, Syed A. Azmal, Liubin Yang, Shijun Li (2019). The capability of L-carnitine-mediated antioxidant on cock during aging: evidence for the improved semen quality and enhanced testicular expressions of GnRH1, GnRHR and melatonin receptors MT $\frac{1}{2}$. Poultry Science journal. 2019;98(9):4172-4181. <https://doi.org/10.3382/ps/pez201>
- 15- **Mona N. Hussein** and Xiaojuan Cao (2018). Brain anatomy and Histology in Teleosts. Benha Veterinary Medical Journal, VOL. 35, NO. 2: 446-463. <https://doi.org/10.21608/bvmj.2018.96440>
- 16- **Mona N. Hussein** and Xiaojuan Cao (2018). Histological and Some Immunofluorescence Studies on the Gills epithelium of the Gray Mullet (Mugil Cephalus) with reference to the age. Benha Veterinary Medical Journal 35: 336-345. <https://doi.org/10.21608/bvmj.2018.96439>
- 17- Li Y., Jia Z., Liang X., Matulic D., **Hussein M.**, Gao J. (2018). Growth performance, fatty-acid composition, lipid deposition and hepatic-lipid metabolism-related gene expression in juvenile pond loach Misgurnus anguillicaudatus fed diets with different dietary soybean oil levels. Journal of Fish Biology. (2018) 92, 17–33. <https://doi.org/10.1111/jfb.13472>
- 18- Huang S., Cao X., Wang W., **Nasr M.** (2018). Fertility and ploidy of gametes of allodiploid and allotriploid loaches produced by diploid Misgurnus anguillicaudatus females and Paramisgurnus dabryanus males. Fish Physiology and Biochemistry journal. (2018) 44:13–20. <https://doi.org/10.1007/s10695>
- 19- Elzoghby, I.M.A., Sosa, G.A., **Mona N. Hussein** (2014). Postnatal development of the testes in the sheep. Benha Veterinary Medical Journal. 26 (2): 186-190.
- 20- Elzoghby, I.M.A., Sosa, G.A., **Mona N. Hussein**, Manshawy, A.A. (2014). Postnatal development of the epididymis in the sheep. Benha Veterinary Medical Journal. 26 (1): 67-74.
- 21- Attia, H.F., El-Zoghby, I.M.A., **Mona N. Hussein**, Bakry H.H. (2010). Seasonal changes in the thymus gland of tilapia nilotica fish. Minufiya Vet. J. 7 (1):1-8.



Scientific meetings, symposium, and conferences:

- 1- Nature research academies workshop about grant writing, 5-10-2022.
- 2- Nature research academies workshop about writing a research paper, 9-10-2022.
- 3- Nature research academies workshop about research methodology, 12-10-2022.
- 4- The 45th scientific conference of the Egyptian society of histology Dec. 2021.
- 5- The 44th scientific conference of the Egyptian society of histology Dec. 2020.
- 6- The neuroscience research in health and disease, which presented by Thomas C. Sudhof and held in Huazhong Agriculture University, Wuhan, Hubei province, China, at 2018-09-17.
- 7- The Fifth Scientific Conference, Faculty of Veterinary Medicine, Benha University, Egypt, Benha – Ein sukhna, Egypt (July 2015).
- 8- The third Scientific Conference, Faculty of Veterinary Medicine, Benha University, Egypt, (Veterinary Medicine from education to public health and nation economy) Benha – Ras sedr, Egypt (29 Jan-1Feb, 2009).
- 9- The second Scientific Conference, Faculty of Veterinary Medicine, Benha University, Egypt (Veterinary Medicine and its positive role in development) Benha – Ras sedr, Egypt (, 25-28th Jan 2007).



Essential links for Mona N. Hussein pages on the internet

- University page** <https://bu.edu.eg/staff/monahussein1>
- Orchid** <https://orcid.org/0000-0002-7144-2477>
- Scopus** <https://www.scopus.com/authid/detail.uri?authorId=57210852530>
- Web of science** <https://www.webofscience.com/wos/author/record/GXF-1254-2022>
- Researchgate** <https://www.researchgate.net/profile/Mona-Hussein-3>
- Google scholar** <https://scholar.google.com/citations?user=GG0muNoAAAAJ&hl=en>

Journal roles:

Reviewer at Plose one journal

Guest editor at Jove journal: [JoVE | Peer Reviewed Scientific Video Journal - Methods and Protocols](#)