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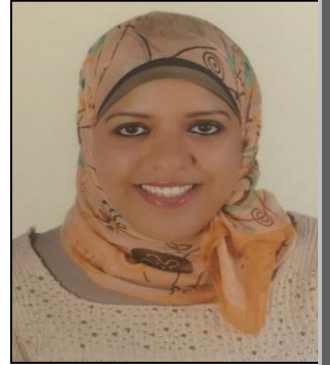


كلية الطب البيطري



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كلية الطب البيطري
قسم الكيمياء الحيوية وكيمياء التغذية

CURRICULUM VITAE



PERSONAL DATA:

LAST NAME: AbuBaKr

First Name: Huda

Middle Name : Omar

Address: 15, Kamal El-Sherief Street, El-Materyia, Cairo, Egypt

Telephone Home: +20-2-22515998 **Telephone Work:** (202)35720799

Telephone Mobile: +20-11-40956500+20-10-27799536

Email 1: huda.omar@cu.edu.eg

Email 2: hudamoon84@gmail.com

Web : <https://scholar.google.com/citations?user=zXPjnF0AAAAJ&hl=en>

Researchgate: https://www.researchgate.net/profile/Huda_Abubakr

Marital Status: Single

Date of Birth: 21/March/1984

Gender: Female

Country of Origin: Egypt

Present Nationality: Egyptian

Languages and Fluency Level: Mother Language: Arabic

Other Languages: -Fluent in English

(Institutional TOEFL, pass Pre-Intermediate courses at British Council)

-Good in French

EDUCATION:

2010-2014 Ph.D. In Biochemistry and Chemistry of Nutrition, Fac. Vet. Med. ,Cairo University, Giza, Egypt.

Thesis title: "Molecular and Biochemical Studies On Equine Osteoarthritis."

2007-2010 M.S. In Biochemistry and Chemistry of Nutrition, Fac. Vet. Med. ,Cairo University, Giza, Egypt.

Thesis title: "Biochemical and molecular changes induced by certain nutritional treatments in rats."

2001-2006 B.S. In Veterinary Science, Facu.Vet. Med. ,Cairo University, Giza, Egypt.

Graduated from Primary, Preparatory and Secondary English Language high school.



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WORK HISTORY:

2020-Present Assistant Professor(Teaching of Biochemistry course, Metabolism and body fluid course & Molecular Biology course, courses of postgraduates), Department of Biochemistry and Molecular Biology, Fac.Vet. Med., Cairo University, Giza, Egypt.

2019 – 2020 Diploma in Bioinformatic - Nile University.

2014-Present Lecturer (Teaching of Biochemistry course, Metabolism and body fluid course & Molecular Biology course, courses of postgraduates), Department of Biochemistry, Fac.Vet. Med., Cairo University, Giza, Egypt.

2010-2014 Assistant Lecturer (Teaching Assistant of Biochemistry courses and practical courses), Department of Biochemistry, Fac.Vet. Med., Cairo University, Giza, Egypt.

2007-2010 Demonstrator (Teaching Assistant of Biochemistry courses and practical courses), Department of Biochemistry, Fac.Vet. Med., Cairo University, Giza, Egypt.

- **Academic activities and Experience:**

- Mentoring graduate students during practical sessions (over 700 students divided into 6 sections) of the following courses: Basic Molecular Biology Course # 155 ,Basic Biochemistry Course # 202 ,Metabolism , Bioenergetics Course # 252 and Critical thinking course# UCT001 .

- Teaching lectures as well as supervising the graduate, master , PhD students at the Department. These skills enabled me to improve all needed activities to perfect transferring knowledge as well as continuous updating my scientific background to equally compile with my performance.

- Organizer in department semester conferences and workshops.

- Assigned to many responsibilities towards lab instruments maintenance, analysis of routine admitted samples (for protein and quality assurance measurements for animal rations or molecular biology lab work for routine DNA isolation and characterization).

- Assigned to be the main correspondent for maintenance and running the all facilities in our Department Central lab that serves a large sector of University researchers.



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- **Mastering the following Biochemistry and Molecular Biology techniques:**

Protein purification and Separation techniques, Spectrophotometric techniques, - Nucleotide and Protein electrophoresis, Western blotting, SSCP technique, RFLP technique, HPLC technique, PCR techniques, Ag-Ab reactions (ELISA), DNA Fragmentation technique, Zymography technique, Quantitative realtime-PCR and Bioinformatic Databases

- **Computer skills and competences:**

Good command of Microsoft Office™ tools (Word™, Excel™ and PowerPoint™), especially presentation construction, excellent Internet and navigation Skills. Chemdraw software for Biochemists. HPLC-based interface software for running its analysis, Gel analysis software, IBM SPSS Statistics, My EndNote Library Data, Adobe Photoshop, Linux, Python, R studio

SCHOLARSHIP & PROJECTS:

18/03/2019 -2020 Join to the first and second semester of Bioinformatic Diploma .Nile University.

2019-2020 Assigned as Scientific Coordinator of USAID organization- Faculty of Veterinary Medicine Cairo University.

08/11/2018 Assigned to be the **First** scientific lecturer for **Genetic Standardization lecture of International Course in Laboratory Animal Science** –Cairo University- Egypt.

20/09/2018 I have recommended being the responsible lecturer of the first **Critical Thinking** subject syllabus by **Dean** of Faculty of Veterinary Medicine and approved by the **Head of Cairo University**.

05-08/08/2018 **Certificate of Appreciation** for participation as a **Speaker** at the **7th International Conference (the 15th Scientific conference) one Health: Animal, Human and Environment : Recent Applications, organized by Faculty of Veterinary Medicine, Cairo University Egypt**

05/2018-07/2018 Assigned to be one of students of **MIEH 607: Global Classroom: A Risk Based Approach to Ensure Global Food Safety and Security** University of Maryland College Park School of Public Health Summer Session I, 2018.

2019-2020 Assigned to be one of the research team of STDF grant of Academy of Scientific Research project entitled " **Study on skin diseases affecting leather industry in Egypt**".



2017-2018 Assigned to be one of the research team of CU project entitled "**Nutrigenomic evaluation of *Azolla* leaf meal and/or *Moringa* leaf meal as unconventional feed ingredients in growing rabbit diet**".

2016-2017 Assigned to be one of the research team of CU project entitled "**Micro RNA footprint for osteoarthritis in equine**".

07/2016-09/2016 Institutional Fulbright Junior Faculty Development program at United States of America .

TRAINING AND PROFESSIONAL DEVELOPMENT:

15-19/07/2019 Python for Bioinformatics Workshop

06/02/2019 Certificate of attendance of workshop in How to get published by Taylor & Francis Group.

08/11/2018 Genetic Standardization lecture of International Course in Laboratory Animal Science –Cairo University- Egypt.

21/10/2018 4th Fulbright Annual Alumni Conference , Conrad Hotel ,Cairo – Egypt.

09 /2018 Certificate of Appreciation from Cairo University for international publication in Thomsan Reuters journals (ISI) for 2017 researches.

05-08/08/2018 Certificate of Attendance the 7th International Conference (the 15th Scientific conference) one Health: Animal, Human and Environment : Recent Applications, organized by Faculty of Veterinary Medicine, Cairo University Egypt

05-08/05/2018 34th World Veterinary Association Congress, at the Centre de Convencions Internacional de Barcelona, in Barcelona, Spain

14/03/2018 The International Nanotechnology Summit , British University, El-Sherouk City, Egypt.

26-27/02/2018 Horizon 2020 Info Day workshop, Sheraton Cairo Hotel & Casino, Giza Egypt.

02-09/02/2018 26th International Egyptian congress of animal reproductive and fertility. Hurghada, Egypt.



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12/2017 2nd Egyptian Bioinformatics Workshop Program, Nile University,6 October city,Egypt.

12/2017 Horizon 2020 Workshop, Fairmont Nile Towers Hotel, Cairo , Egypt..

09/2017 National Erasmus+ Day 2017,Grand Nile Tower Hotel,Cairo,Egypt.

11/2016-1/2017 Quality control workshops entitled:"Reports of Syllabus and Educational Program", "Disaster Control", "Quality and Development Control", "Students and Graduate students Quality Control", "Postgraduate and Scientific Research Quality Control", "Academic Organizations" and "Credit Hours Systems", Cairo University, Egypt .

11/2016 9th International Scientific Conference of the Faculty of Veterinary Medicine ,Suez Canal University ,Ismailia.

09/2016 Population Health Informatics , Cuny University , New York, USA.

08/2016 Fulbright Public Health Conference, Washington, DC, USA .

07/2016-08/2016 Institutional Fulbright Junior Faculty Development Program, Indiana, Bloomington, USA .

08/2016. Successfully completed the requirements of an online course "**Public Health & You**".

05/2016 13th scientific conference (5th international) "Hot spots in Veterinary Medicine" Sharm EL-Sheikh City ,Egypt.

03/2016 13th National conference entitled "Advances in Biochemistry and Molecular Biology in Diagnosis and Treatment" 6 October City University , Egypt.

12/2015-01/2016 Basic Bioinformatics Course -SIRA CORP, Giza ,Egypt.

02/2015.Participation in University educational programs at National TV Remote Learning Program - Molecular biology and Genetic engineering. Cairo, Egypt.

Faculty Leadership and Development Courses (FLDC) (2008-2017)

Critical Thinking, Arabic and English editing for scientific writing, Time and conference management; Conference Organization; E-learning; Exams and Students Evaluation Systems; Financial Aspects & University Legal; Time and Conference Management; Code of ethics; Communication skills ; Compete for a research fund ; Research ethics ; Using of Technology in Teaching ; Scientific publish; Arabic and English Scientific Writing ; Critical thinking ; Total quality



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management in healthcare ; Ethical Considerations for animal use in research and education ; Clinical Practice training),Cairo University, Giza,Egypt.

05/2013 International conference on Molecular Biology and Stem Cells. Ain Shams University, Cairo, Egypt.

07/2012 Organizer of Basic Techniques in Molecular Biology: Gates to Better Understand Biotechnology, Faculty of Veterinary Medicine ,Cairo University ,Giza, Egypt .

04/2012 Practical Pharmaceutical Nanotechnology workshop, Faculty of Pharmacy,Cairo University , Giza, Egypt.

05/2011 11th scientific conference (the 3rd international), Sharm EL-Sheikh,Egypt.

07/2007 Organizer and teacher in the workshop entitled “Advanced Analytical Methods of Biochemical Analysis, Nucleic Acids and Applications of PCR” , Biotechnology centre , Faculty of Veterinary Medicine, Cairo University,Giza, Egypt.

Professional Memberships

A member of the following scientific associations:-

1. The Egyptian Society of Genetics
2. The Egyptian Society of Veterinary Science
3. The Egyptian Society of Chemistry and Environmental Health

A Reviewer in Scientific International Journals:

1. Human & Experimental Toxicology
2. Plos One
3. Biochemical Journal
4. Experimental Biology and Medicine
5. Biomedicine & Pharmacotherapy
6. Translational Medicine
7. Environmental Toxicology
8. Environmental Science and Pollution Research



PUBLICATIONS:

Citations: 265

h-index: 9

i10-index: 8

- 1- Marwa S. Khattab, **Huda O. AbuBakr**, Kassem G. El Iraqi, Naglaa A. Abd ElKader, Mervat M. Kamel, Khaled Hamed Salem, Julia Steitz, Mamdouh Afify(2021):Intra-Iliac bone marrow injection as an alternative to Intra-Tibial Inoculation in Rat Model. Stem cell research and therapy.12(1),1-14.
- 2- Shima M. Abou-Zeid, Enas A. Tahoun, **Huda O. AbuBakr** (2021):Ameliorative effects of jojoba oil on fipronil-induced hepatorenal and neuro-toxicity: The antioxidant status and apoptotic markers expression in rats. Environmental Science and Pollution Research <https://doi.org/10.1007/s11356-020-12083-2>.
- 3- Salma W. Abdelhaleem,Mostafa M. Bashandy,Shaymaa I. Salem,Faisal A. Torad, **Huda O. AbuBakr**, Mahmoud M. Bayoumi(2021): Synovial fluid analysis of MMP-2, MMP-9, and COX-2 as diagnostic markers for naturally occurring septic and aseptic arthritis in horses. Comparative Clinical Pathology <https://doi.org/10.1007/s00580-021-03226-z>
- 4- Haithem A. Farghali , Naglaa A. AbdElKader , **Huda O. AbuBakr**, Eman S. Ramadan ,Marwa S. Khattab , Noha Y. Salem , Ibrahim A. Emam (2021):Corneal Ulcer in Dogs and Cats:Novel Clinical Application of Regenerative Therapy Using Subconjunctival Injection of Autologous Platelet-Rich Plasma. Front. Vet. Sci. 8:641265. doi: 10.3389/fvets.2021.641265
- 5- Mai Abuowarda, **Huda O. AbuBakr**, Elshaimaa Ismael , Mohamed Shaalan, Mona Mohamed and Samira H. Aljuaydi (2021): Epidemiological and genetic characteristics of asymptomatic canine leishmaniasis and implications for human Leishmania infections in Egypt. Zoonoses Public Health. 2021;00:1–18.
- 6- Mohamed A. Awad, Zeinab S. Othman, **Huda O. AbuBakr**, Gehad Hassan, Moukhtar G. Hanafy (2021): Fipronil induced oxidative stress in neural tissue of albino rat with subsequent apoptosis and tissue reactivity. Acta histochemica 123(6),151764.
- 7- Mohamed A. Awad, Zeinab S. Othman, **Huda O. AbuBakr**, Gehad Hassan, Moukhtar G. Hanafy (2021): Oxidative stress ,apoptosis and



histopathological alterations in brain stem and diencephalon induced by subacute exposure to fipronil in albino rats. Environmental science and pollution research .1-13.

- 8- Rehab A. Azouz, Shima M. Abou-Zeid, **Huda O. AbuBakr**, Marwa S. Khattab (2020):Buprofezin toxication implicates health hazards in Nile tilapia (*Oreochromis niloticus*). Aquaculture Research. Doi:10.1111/are.14884.
- 9- Naglaa A. AbdElKader, Eldessouky Sheta, **Huda O. AbuBakr**, Omnia A. A. El-Shamy, Ahmad Oryan,Marwa M. Attia (2020): Effects of chitosan nanoparticles, ivermectin and their combination in the treatment of *Gasterophilus intestinalis* (Diptera: Gasterophilidae) larvae in donkeys (*Equus asinus*). International Journal of Tropical Insect Science <https://doi.org/10.1007/s42690-020-00171-2>
- 10- Yassin AM, **AbuBakr HO**, Abdelgalil AI, Khattab MS, El-Behairy AM, Gouda EM(2020):COL2A1 and Caspase-3 as Promising Biomarkers for Osteoarthritis Prognosis in an *Equus asinus* Model. Biomolecules. 2020 Feb 26;10(3). pii: E354. doi: 10.3390/biom10030354.
- 11- Abu-Elala NM, Younis NA, **AbuBakr HO**, Ragaa NM, Borges LL, Bonato MA(2020):Influence of dietary fermented *Saccharomyces cerevisiae* on growth performance, oxidative stress parameters, and immune response of cultured *Oreochromis niloticus*. Fish Physiol Biochem.2020 Apr;46(2):533-545. doi: 10.1007/s10695-019-00711-9. Epub 2020 Feb 8
- 12- Haithem A. Farghali , Naglaa A. AbdElKader , **AbuBakr H.O** , Samira H. Aljuaydi , Marwa S. Khattab , Rehab Elhelw , Mahmoud Elhariri (2019): Antimicrobial action of autologous platelet-rich plasma on MRSA-infected skin wounds in dogs. Scientific Reports | (2019) 9:12722 | <https://doi.org/10.1038/s41598-019-48657-5>
- 13- Enas A. Tahoun , Shima M. Abou-Zeid and **AbuBakr H.O**.(2019): BIFENTHRIN INDUCED BIOCHEMICAL AND HISTOPATHOLOGICAL ALTERATIONS IN RATS. Int. J. Adv. Res. 7(5), 70-85
- 14- El-Kattan ; Mahmoud M.A; **AboBakr H.O**; Wassif I.M. (2019):Immunological and Biochemical studies on polyvalent *Pasteurella* Vaccine in Camels. Alexandria journal of Veterinary Sciences.61(1):100-107.
- 15- Mahmoud A. Mahmoud ; Hayam A. Mansour, Mohamed Abdelsalam , **AbuBakr,H.O** , Samira H. Aljuaydi and M. Afify(2019): Evaluation of electrofishing adopted by Egyptian fish farmers.. Aquaculture 498 (2019) 380–387.



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- 16- Abu-Elala N.M.; Yonis N.A.; **AbuBakr, H.O.**; Ragaa, N.M.; Borges, L.L.; Bonato, M.A.(2018): Efficacy of dietary yeast cell wall supplementation on the nutrition and immune response of Nile tilapia. Egyptian Journal of Aquatic Research 44 (2018) 333–341.
- 17- Abou-Zeid,S.M.; EL-bialy,B.E.; EL-borai,N.B.; **AbuBakr,H.O.**; Abdel Monsef A. Elhadary,A.M.A. (2018): Radioprotective effect of Date syrup on radiation-induced damage in Rats. Scientific Reports 8 (1), 7423. DOI:10.1038/s41598-018-25586-3
- 18- Nermeen M. Abu-Elala,N.M.; **AbuBakr,H.O.**; Khattab,M.S.; Mohamed,S.H.; El-hady,M.A.; Ghandour,R.A.; Rania E. Morsi,R.E. (2018): Aquatic environmental risk assessment of chitosan/silver, copper and carbon nanotube nanocomposites as antimicrobial agents.International Journal of Biological Macromolecules. 113 ,1105–1115.
- 19- **AbuBakr,H.O.**; Aljuaydi,S.H.; Abou-Zeid,S.M; El-Bahrawy, A. (2018): Burn-induced multiple organ injury and protective effect of Lutein in rats. Inflammations. DOI: 10.1007/s10753-018-0730-x
- 20- Abou-Zeid,S.M.; Huda O. **AbuBakr,H.O.**; Mohamed,M.A.; El-Bahrawy,A (2018):Ameliorative effect of pumpkin seed oil against emamectin induced toxicity in mice. Biomedicine & Pharmacotherapy 98 , 242–251.
- 21- Hussein ,U.K.; Hassan ,N.E-H.; Manal E.A.Y.; Elhalwagy M.E.A.; Zaki ,A.R.; **Abubakr ,H.O.**; Venkata ,K.C.N.; Jang ,K.Y.; Bishayee ,A.(2017):Ginger and Propolis Exert Neuroprotective Effects against Monosodium Glutamate-Induced Neurotoxicity in Rats".Molecules.22,1928.
- 22- Farghali,H.A.; AbdElKader,N.A.; KhattabM.S.; **AbuBakr,H.O** (2017):Novel approach to gastric mucosal defect repair using fresh amniotic membrane allograft in dogs (experimental study)".Stem cell Research & Therapy. 8:235.
- 23- Farghali,H.A.; AbdElKader,N.A.; KhattabM.S.; **AbuBakr,H.O** (2017):Evaluation of subcutaneous infiltration of autologous platelet-rich plasma on skin-wound healing in dogs". Bioscience Reports . 37 BSR20160503

عميد الكلية

أ.د/ إيمان بكر