



Asma AKAICHI

"PhD in Biological Sciences"

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Asma Akaichi



Summary:

Graduate of the Higher Institute of Biotechnology Sidi Thabet, in Pharmaceutical Biotechnology with honors. Awarded of a Research Master Degree in Molecular Biology and Health. Currently, I am a PhD in Biological Sciences. My successful experience in various positions as a biotechnologist, molecular biologist, and researcher, has been critical in gaining a solid background in biotechnology and extensive knowledge in the molecular biology, as well as awakening my genuine interest and passion for the animal science fields. I am looking forward to continuing my adventure at the University of Veterinary Medicine Hannover, Germany, in a Post-doctoral Position in poultry nutrition, which I began working on throughout my PhD thesis. I strongly believe that combining my academic and professional experiences has granted me the necessary skills and a solid practical and theoretical background to identify innovative research topics, analyze them with a critical mindset and provide new solutions and deep insights to the Animal Science field.

01. WORK EXPERIENCE

Internships -Title	Internships -Institution	Internships -Period	Internships -Activities
Ph.D. student	Carthage University (The PhD thesis was carried out in collaboration with the Animal Nutrition Society under the MOBIDOC scheme, funded by the EU through the EMORI program)	Apr.2018 – July 2022	Manufacture compound feed for broiler chicken Monitored broiler chickens' breeding Determined and analyzed growth performance data Taking blood samples Analyzed the serological profile of broiler chickens (enzyme-linked immunosorbent assays (ELISA)) Analyzed the blood biochemistry profile of broiler chickens Counted the white blood cells in blood smear Examined histological sections of broiler chickens' liver and spleen Evaluated the physicochemical and sensory properties of broiler chickens meat Analyzed data using SPSS and R software Wrote scientific reports and articles Followed a training program in entrepreneurship, communication, patent drafting, and project management
Master's thesis internship	Faculty of Medicine of Tunis (Human Genetics Laboratory)	Mar.2016 - Dec.2016	Isolation and quantification of nucleic acids <ul style="list-style-type: none">Isolation and purification of RNA and DNAQuantification of DNA through real-time qPCR via Taqman based systemsDetect single-nucleotide polymorphism (SNP) alleles in genomic samples through ARMS PCR
Molecular Biology Intern	Institut Pasteur Tunis	Jun.2015 - Jul 2015	Performed molecular biology techniques applied to the detection and genotyping of Human Papillomaviruses Performed the direct immunofluorescence technique
Molecular Biology Intern	Mersin University (Turkey) (molecular biology laboratory)	Jul.2015 - Aug.2015	Performed karyotyping techniques
Quality Control Intern	Tunisian Company for Pharmaceutical Industries	Feb.2014 - May.2014	Analyzed the drugs by the HPLC method Mastered the different methods of pharmaceutical quality control (UV-Visible Spectrophotometric method, infrared spectroscopy, Gas chromatography...)
Hematology Internship	Hematology laboratory at Charles Nicolle Hospital, Tunis	Aug.2013 - Sep.2013	Performed hematological tests (White blood cell count, Red blood cell count, Hematocrit red blood cell volume, Hemoglobin concentration, Red blood cell indices...)

02. EDUCATION			
B. Sc.			
Duration (years):	3	GPA [0-100]:	80 (The valedictorian of the promotion)
Date (start):	<i>Sep.2011</i>	Date (end):	<i>Jun.2014</i>
Programme (title):	Applied license in Pharmaceutical Biotechnology in Sidi Thabet	Institution:	Higher Institute of Biotechnology of Sidi Thabet, Manouba University
Country:	Tunisia		
M. Sc.			
Duration (years):	2	GPA [0-100]:	60
Date (start):	<i>Sep.2014</i>	Date (end):	<i>Dec.2016</i>
Programme (title):	Molecular Biology and health Dissertation Title: The role of polymorphisms in the DNA repair genes, XRCC1, XPD in resistance to radiochemotherapy in breast cancer	Institution:	Higher Institute of Biotechnology of Sidi Thabet, Manouba University
Country:	Tunisia		
Ph. D.			
Duration (years):	5	GPA [0-100]:	Very honorable grade
Date (start):	<i>Apr.2018</i>	Date (end):	<i>Jul.2022</i>
Programme (title):	Doctorate of Philosophy, Biological Sciences Dissertation Title: Humic acid supplementation of broiler chickens feed: effect on zootechnical performance, meat quality, and animal health	Institution:	Carthage University
Country:	Tunisia		

03. TRAININGS			
Training 1-Title:	Business English 1	Training 1-Institution:	Amideast
Training 1-Date (start):	<i>20.05.2021</i>	Training 1-Date (end):	<i>27.07.2021</i>
Training 2-Title:	Planning, Preparedness, Resilience and Crisis Management course	Training 2-Institution:	British Embassy Tunis/ AXIOM INTERNATIONAL
Training 2-Date (start):	<i>12.02.2021</i>	Training 2-Date (end):	<i>14.02.2021</i>
Training 3-Title:	SPSS applied to biology and medicine	Training 3-Institution:	Avicenne Institute for Training and Professional Integration
Training 3-Date (start):	<i>25.10.2019</i>	Training 3-Date (end):	<i>26.10.2019</i>
Training 4-Title:	Introduction to the creation of start-ups and spin-off universities: Process, Business Model and Business plan	Training 4-Institution:	National Agency for the advancement of scientific research
Training 4-Date (start):	<i>13.06.2019</i>	Training 4-Date (end):	<i>20.06.2019</i>
Training 5-Title:	Introduction to patent drafting	Training 5-Institution:	National Agency for the advancement of scientific research
Training 5-Date (start):	<i>13.06.2019</i>	Training 5-Date (end):	<i>20.06.2019</i>
Training 6-Title:	Project management, scientific monitoring, and communication	Training 6-Institution:	National Agency for the advancement of scientific research
Training 6-Date (start):	<i>13.06.2019</i>	Training 6-Date (end):	<i>20.06.2019</i>
Training 7-Title:	Immunohistochemistry and its applications in medicine	Training 7-Institution:	Laboratory of Physiopathology, Food, and Biomolecules, Higher Institute of Biotechnology of Sidi Thabet
Training 7-Date (start):	<i>25.08.2018</i>	Training 7-Date (end):	<i>27.08.2018</i>
Training 8-Title:	Primary Cell Culture Basics	Training 8-Institution:	Laboratory of Physiopathology, Food and Biomolecules, Higher Institute of Biotechnology of Sidi Thabet
Training 8-Date (start):	<i>20.07.2017</i>	Training 8-Date (end):	<i>22.07.2017</i>
Training 9-Title:	RNA extraction from FFPE tissue	Training 9-Institution:	HTDS Tunisia and Faculty of Medicine of Tunis
Training 9-Date (start):	<i>15.02.2016</i>	Training 9-Date (end):	<i>17.02.2016</i>

04. DIGITAL SKILLS	
Microsoft Office (Word, Excel, Powerpoint)	
Software: SPSS and R	

05. LANGUAGE SKILLS			
English:	Yes (Intermediate level (B2))	Arabic	Native language
French:	Yes (Advanced level (C1))	German:	No

06. PUBLICATIONS

Types of publication	Title of publication
Master’s thesis	Publication of the master's thesis as a book by the “édition universitaire européenne”: Etude de polymorphismes des gènes de réparation de L’ADN (XRCC1, XPD) dans la résistance à la radiochimiothérapie dans le cancer du sein
Original Journal Article	A. Akaichi., A. Jebali., M. Benlarbi., T. Mahjoub., K. Kaboudi., R. Ben Chaouacha Chekir., Z. Haouas., N. Boudhrioua. Effects of humic acid and organic acids supplements on performance, meat quality, leukocyte count, and histopathological changes in spleen and liver of broiler chickens. Research in Veterinary Science. Volume 150, July 2022, https://doi.org/10.1016/j.rvsc.2022.07.001 . (IF= 2,534).
Original Journal Article	A. Akaichi., A. Jebali., O. Abbes., S. Haj Taieb., M. Feki., K. Kaboudi., R. Ben Chaouacha-Chekir., M. Benlarbi., N. Boudhrioua. Effect of humic acid and organic acids, alone or in combination, on blood biochemical constituents and humoral immune response in broiler chickens. Livestock Science. Volume 258, April 2022, 104880. https://doi.org/10.1016/j.livsci.2022.104880 . (IF= 1,943).
Abstract	A. Akaichi, A. Jebali, M. Benlarbi, T. Mahjoub, K. Kaboudi, R. Ben Chaouacha-Chekir, Z. Haouas, N. Boudhrioua. Effect of humate on performance, organ histopathology, and meat quality of broiler chickens. Animal - Science Proceedings 13 (2022) 617–685, Oct 2022
Poster Presentation	Antibacterial and antioxidant properties of humic substances derived from different sources: review. Poster- Advances In Food Bio-Preservation International Seminar , Tunis, Tunisia, 02-04 October 2022. Publication. October 10, 2022. https://zenodo.org/record/7181383#.Y0QdxnbMLIV
Poster Presentation	Effet de l’acide humique sur la réponse humorale et le nombre des leucocytes des poulets de chair. Poster- 31st ATSB International Congress of Biological Sciences and Biotechnology , March 21-24, 2022, Hammamet, Tunisia. http://atsb-bio.org/wordpress/wp-content/uploads/2022/03/SOMMAIRE-DESCOMMUNICATIONS-PAR-AFFICHE-2022.pdf
Oral Presentation	Effects of humic acid alone or combined to organic acids on health status and meat quality of broiler chickens. Oral - Booklet: Artisanal Foods & Bioactive Molecules International Seminar , Medenine, Tunisia, 19-21 December 2021. Publication. January 10, 2022. https://doi.org/10.5281/zenodo.5860542

07. SOCIAL AND POLITICAL ACTIVITIES

Activity 1-Title:	Member of the Tunisian Association of Biological Sciences	Institution:	Tunisian Association of Biological Sciences
Activity 1-Date (start):	21.03.2022	Activity 1-Date (end):	Present
Activity 2-Title:	Member of the municipal council of Tunis (rapporteur of the Foreign Affairs Committee)	Activity 2-Institution:	Municipality of Tunis
Activity 2-Date (start):	03.07.2018	Activity 2-Date (end):	01.10.2021
Activity 3-Title:	Member of Charles Nicolle hospital board of directors	Activity 3-Institution:	Charles Nicolles Hospital
Activity 3-Date (start):	03.07.2018	Activity 3-Date (end):	01.10.2021
Activity 4-Title:	Member of the World's Poultry Science Association France	Activity 4-Institution:	World's Poultry Science Association
Activity 4-Date (start):	03.03.2020	Activity 4-Date (end):	03.03.2021

08. VOLUNTEERING

01.01.2013-01.01.2018	Scout leader
01.09.2014-01.01.2016	President of a student club for Cultural and Scientific Activities and a student representative on the scientific council

09. PROJECTS

Project -Title:	AL Fadhalat Tharawat” (Trash to treasure)	Institution:	Municipality of Tunis
Project -Date (start):	01.10.2019	Project-Date (end):	01.01.2020
Project description	As Foreign Affairs Committee rapporteur, I oversaw an environmental project aimed at implementing a circular approach in Tunis. This project was carried out in collaboration with the Municipality of Cologne (Germany) "Al Fadhalat Tharawat" (Trash to treasure) program: a non-formal environmental curriculum for high school clubs in Tunis, aligned with the UN SDG's. An exclusive collaboration bringing together Municipality of Tunis - Municipality of Cologne, Sadiki & Hafisa high schools, coordinated by Collectif Créatif Tunis		

10. HOBBIES AND INTERESTS

Camping and reading
