

## Curriculum Vitae



### **Personal Details:-**

**Name:** Dr. Khadija Khalil Mustafa

**Family name:** Barzani

**Academic standing:** Professor

**Date of birth:** 1<sup>st</sup> January 1973 , Erbil, Iraq

**Current address :** Dept. of Biology, College of Education, University of Salahaddin , Erbil/ Iraq.

**Home address:** Zanco 2 , Erbil , Iraq

**Material status:** Married

**Citizenship:** Kurdish

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**Head of promotion Committee college of Education/Salahaddin University.**

### **Educational Profile:-**

-2006- 2007 Awarded **Ph.D** in Microbiology (Bacteriology), Dept. of Biology, College of Education, University of Salahaddin , Erbil/ Iraq.

- 2000- 2001 Awarded **MSc.** in Microbiology, Dept. of Biology, College of Education, University of Salahaddin , Erbil/ Iraq.

- 1994-1995 Awarded **BSc.** in Biology, Dept. of Biology, College of Education, University of Salahaddin , Erbil/ Iraq.

-1991-1992 Took **Baccalaureate** , Alqala Secondary School , Erbil/ Iraq.

### **Language:-**

**Kurdish:** Mother language

**Arabic :** Very good

**English:** Very good

**Turkish:** Good

### **Title of Ph.D thesis:-**

Isolation, identification and some physiological aspects of *Legionella pneumophila* isolated from different sources in Erbil city.

### **Title of MSc. thesis:-**

Effect of bacteria *Rhizobium*, Mycorrhiza fungus and phosphorus and their interaction on some biological activities on broad bean (*Vicia faba*) plant.

### **Training Courses:-**

1. Teaching Method training, 2001.
2. Computer training, 2002.
3. Participation in Advanced English Language Course, 2004.
4. Participation in Summer, Intensive English Program, Millennium English Language Instruction in Kurdistan, 2005.
5. Training course on Molecular Biology Techniques in Scientific research center , Duhok , 2008.
6. Participation in EndNote Software Workshop, 2013.

7. Participation in SPSS Software ,2016.
- 8- Participation in Moodle workshop.
9. Participation in Real time PCR, 2019.
10. Participation in Graph pad prism 6, 2019.
11. Participation in Nanotechnology application in chemistry, workshop, 2019 .
12. Participation in fungi and pulmonary infection workshop, 2019.
13. Participation in Infection control in hospitals, 2019.
14. Participation in International workshop of Diagnostics in biology, 2019.
15. Participation in E-Governance in focus, 2019.
16. Participation in Matlab for primary and medium level, 2019.
17. Participation in local scientific journal, 2018.

### **Conferences:-**

- 1.Participating in 4<sup>th</sup> International Scientific conference of Salahaddin University , Erbil/ Iraq, 2011
2. Participating by a paper in 3<sup>rd</sup> Kurdistan conference on Biology Science, Duhok / Iraq, 2010.
3. Participating by a paper in 4<sup>th</sup> Kurdistan conference on Biology Science, Duhok / Iraq, 2012.
4. Participating in 3<sup>rd</sup> International Visible conference on Educational Science , Ishik University , Erbil/ Iraq,2012.
5. Participating in 4<sup>th</sup> International Visible conference on Educational Sciences , Ishik University , Erbil/ Iraq,2013.
6. Participating by a paper in 2<sup>nd</sup> Scientific conference of the faculty of Medical Sciences, University of Duhok, Duhok / Iraq, 2012.
7. Participating by a paper in 3<sup>rd</sup> International conference in Medical Sciences, Hawler University, Erbil/ Iraq, 2012.
8. Participating by a paper in 1<sup>st</sup> International Scientific conference of Zakho University , Zakho/ Iraq, 2013.

9. Participating by a paper in 4<sup>th</sup> International conference and workshops on basic and Applied Sciences and 11<sup>th</sup> Regional, Annual Fundamental Science Symposium 2023( ICOWOBAS-RAFSS 2013) which will be held at Le Grandeure Palm Resort, Senai, Johor, Malaysia, 2013.
10. Participating in 3<sup>rd</sup> International conference on Energy, Environment and Applied Sciences , Ishik University , Erbil/ Iraq,2016.
11. Participating in 4<sup>th</sup> International Scientific conference on Biological Sciences of Cihan University , Erbil/ Iraq, 2017.
- 12- Participating in Knowledge University Workshop, Erbil/ Iraq, 2017.
- 13- Participating in second EPU Symposium Internationalization of Scientific Research in Kurdistan in Erbil Polytechnic University, 2017.
- 14- Participating in 5<sup>rd</sup> International conference on Applied Sciences, Energy and Environment , Ishik University , Erbil/ Iraq,( ICASEE-2018).
- 15- Participating in Symposium Internationalization of Scientific Research in Kurdistan in Erbil Polytechnic University, 2018.
- 16- Participating in International Scientific conference on Biological Sciences of Cihan University , Erbil/ Iraq, 2019.
- 17- Participating in Second Educational conference of college of basic education in Kurdistan Region, Salahaddin University , Erbil- Iraq, 2019.
- 18- Participating International conference and workshops on basic and Applied Sciences and 11<sup>th</sup> Regional, Annual Fundamental Science Symposium 2023(ICOWOBAS-RAFSS) which will be held at Tishik Uni., 2023.
- 19- Participating by 2 articles in the 5th international conference on biomedical & health sciences (cic-biohs'2024), at cihan university Erbil, Kurdistan region, Iraq on 6th-7th March, 2024.
- 20- Participating in 2SCCHs conference of college of health sciences/Hawler university , Iraq. 2023.
- 21- Participating in ICHS conference of Education college , Salahaddin university, 2024.

22- Participating in ISADAS conference of Education college , Salahaddin university, 2024.

### **Professional Experiences:-**

2001 Assistant lecture (Microbiology, Bacteriology) Dept. of Biology, College of Education, University of Salahaddin , Erbil/ Iraq.

2004 Lecture (Microbiology, Bacteriology) Dept. of Biology, College of Education, University of Salahaddin , Erbil/ Iraq.

2010 Assistant Professor (Microbiology, Bacteriology) Dept. of Biology, College of Education, University of Salahaddin , Erbil/ Iraq.

2018 Professor (Microbiology,Bacteriology) Dept. of Biology, College of Education, University of Salahaddin , Erbil/ Iraq.

### **Courses Taught:-**

#### **Undergraduate:**

Microbiology, Pathogenic bacteria, Virology, Mycology, Scientific debate

#### **Postgraduate:**

Advance Mycorrhiza, Advance Virology, Advance Microbiology, Systematic bacteriology, Systematic Microbiology, Topic and Fish microbiology .

### **Membership of Professional Bodies:-**

Member in Kurdistan Teachers Society.

Member in Kurdistan Biology Society.

Member in Culture center in University of Salahaddin .

### **Chair/Member of Supervising Committee:-**

1.Sevan Hassan Bakir , Diploma , Supervisor.

2. Ahmed Abdul-qader , Diploma, Member.
3. Sakar Abdul-qader , MSc. , Member.
4. Khanda Abdul-latif Anwer, Ph.D, Member.
- 5- Rasha Ghazy Thenon , MSc. , Member.
- 6- Khanzad Kheder Gegis , Ph.D, Member.
- 7- sevan Tareq Faeq, Msc., MSc. , Member .
- 8- Akhenk Mustafa Hassan, MSc. , Chairman.
- 9- Ako Khalid Mustafa, MSc. , Supervisor.
- 10- Zheen Abdul-Elah Abdullah, MSc., Supervisor.
- 11- Dlzar Bayz Rahman, MSc., Member.
- 12- Shno Abdulqader sofi, MSc., Member.
- 13- Serhang Ismaeel , MSc., Member.
- 14- Hayman Mohammed Abdula, MSc., Member.
- 15- Shahla Amin Mahmood, MSc., Member.
- 16- Sarhang Ismael Mustafa, MSc., Member.
- 17- Omer Ali Nameq, MSc., Member.
- 18- Hemn Mohammed Abdulla , MSc., Member.
- 19- Alla Saed Shet , Ph.D, Member.
- 20- Hero Farhad Salah, Ph.D, Member.
- 21- Jenan Jameel Abed, Ph.D, Supervisor.
- 22- Pshteewan Ahmed, Ph.D. Supervisor.
- 23- Sarween Omer, Ph.D. Supervisor.
- 24- Khalil Hamad , MSc Supervisor.
- 25- Mateen Asmat, MSc. Chairman.
- 26- May Abdulhafeth, Ph.D. Chairman.
- 27- Avan Aumer Amin, MSc. Chairman.
- 28- kaywan kamal, Ph.D. Member.
- 29- Rasha Mohammed, Ph.D. Member.
- 30- kaywan Jbrael, MSc., Chairman.

- 31- Wissam Albeer Nuh, MSc.Supervisor.
- 32- Ala Turki Mnawer, Ph.D. Chairman.
- 33- Khelat Adhem Abduljabar, Ph.D. Chairman.
- 34- Dedawan khurshed, Ph.D. Chairman.
- 35- Meqdad Saleh Ahmed, Ph.D. Chairman.
- 36- Hemn Abdulla Omer, Ph.D. Member.
37. Yunis Anwer Ahmed, Ph.D. Supervisor
- 38- Ayaz Muhammed Saleh, Ph.D. Supervisor.
- 39- Omer Faruq Yusef, Ph.D. Member.
- 40- Zaynab Sherzad. MSc., Chairman.
- 41- Nabat Jawher, MSC, Member.
- 42- Hadeya Jaber Saleh, MSc., Chairman.
- 43- Saman Ismael Othman, MSc., Chairman.

#### **Supervisor:-**

- 1- Sevan Hassan Bakir , Diploma.Effect of *Glycyrrhiza glabra* and *Cinnamomum zeylanicum* Extracts on the Growth of the *Klebsiella pneumoniae* Isolated From Different Clinical Specimens.
- 2- Ako Khalid Mustafa, MSc. Bacteriological Study of *Aeromonas sobria* Isolated From Different Sources in Erbil Province/ Iraq.
- 3- Zhen Abdul-Elah Abdula, MSc. Bacteriological and Molecular Study of Gram Positive Bacteria Isolated From Thalassemic Patients in Erbil City.
- 4- Janan Jamil, Ph.D . Molecular Investigation of *agr* operon and Study the Role of the Quorum Sensing System in the Production of virulence Factors in biofilm forming *Staphylococcus aureus* isolates.
- 5- Pshteewan Ahmed, Ph.D. student.
- 6- Sarween Omer, Ph.D. student.
- 7- Khalil Hamad , MSc student.

8- Unis Ahmed Anwer, Ph.D. student.

9- Ayaz Mohamed, Ph.D. student.

10- Fareedun Aziz , Ph.D. student.

11- Muhabad Muhsen, Ph.D. student.

12- Wissam Albeer , MSc. student.

13- Serwan Ahmed, Ph.D. student

### **Puplications:-**

1- Effects of different concentrations of the nitrogen fertilizer on the efficiency of *Rhizobium leguminosarum* strains ,Published in Zanco Journal, No. 2 , 2003

2- Effect of Mycorrhiza, phosphorus, and urea on ammonia volatilization and soy bean growth, Duhok Scientific Journal, 2,2004.

3- Isolation and identification of *Legionella pneumophila* from different sources. Published in Journal of Education and Science/Mosul Univ. No. 3 ,2007

4- Effects of some medicinal plants on the growth of *Plesiomonas shigelloides* Isolated from deferent water sources, Duhok Scientific Journal, No.2,2009.

5-Antibacterial activity of decoction aqueous extracts of some medical plants against some genus of Enterobacteriaceae. Published in Zanco Journal, No. 6 , 2009.



- 6- Antibacterial Activity of the Some Medicinal Plant Extract on the Growth of *Legionella pneumophila* . Under publication
- 7- Antimicrobial Activity of *Achillea falcata* Extracts Against some causative agents. Journal of Basic Education , 2013.
- 8- The Influence of Fungicides and VA-Mycorrhiza on Growth and Nutrient Balance of Soybean by used DRIS equation. Journal of Agriculture Science, 3 (5) 2013.
- 9- Isolation and Identification of *Legionella pneumophila* From Patients Sputum and Antibacterial Activity of the *Glycyrrhiza glabra* and *Malva neglecta* on it .Duhok Medical Journal, 2012.
- 10- Identify of Bacteria Causing Mobile Phone Contamination In Erbil City. Hawler Medical Journal, 2012.
- 11- Effect of *Glycyrrhiza glabra* and *Cinnamomum zeylanicum* Extracts on the Growth of the *Klebsiella pneumoniae* Isolated From Different Clinical Specimens. Proceedings of the 4th Kurdistan Conference on Biological Sciences. University of Duhok, 8-10 May, 2012.
- 12- In Vitro and In Vivo Antibacterial Activity of Aqueous and Alcoholic Extracts of *Punica granatum* Peels against some Burn Infections Bacteria , *Int.J.Curr.Microbiol.App.Sci* , 3(6) 810-818, 2014.
- 13- Antibacterial Activity of the Some Medicinal Plant Extract on the Growth of *Legionella pneumophila* Isolated From Different Water Sources. Journal of Koya University , No.23, 2012.

- 14- Comparison Study Between Clinical and Environmental Isolates of *Legionella pneumophila* in Erbil City/Kurdistan Region. Under publication in Proceeding ICOWOBAS-RAFSS 2013.
- 15- Antimicrobial activity of *Achillea falcate* extracts against some causative agents, Journal of the college of basic Education ,Al- Mustansiriyah University, Baghdad. Vo.19 ,No. 80,2013.
- 16- Antiboitype of different bacteria isolated from different clinical sources .IJERTE , vol.3issu.7.Impact factor:1.252.
- 17- Antibacterial Activity of Crude Alcoholic and Aqueous Extracts of Two Species of Menthes Against *Staphylococcus aureus* & *Streptococcus mutans*. First conference of Zakho University , 2013.
- 18- Bacteriological Study of *Aeromonas sobria* Isolated From Different Sources in Erbil Province/ Iraq. Zanco Journal.Salahaddin University.
- 19- Bacterial Contamination of Shopping Baskets and Carts in Supermarkets in Erbil City.J.of Rapareen.
- 20- Effect of *Punica granatum* peels extracts on some burn infections bacteria.J. of basic education , Baghdad- Iraq.
- 21- Plasmid Profile, Curing Analysis, and antibacterial Activity of *Alcea arbellensis* Against Multidrug Resistance *Staphylococcus aureus* .Tikrit J. of pure science.Tikrit Univ.
- 22-Bacteriological and Molecular Study of Gram Positive Bacteria Isolated From Thalassemic Patients in Erbil City. Zanco Journal. Salahaddin University.

23- Detection of Tetracycline Resistant Gen (*tet K*, *tet M*) in Some Coagulase Negative Staphylococci Isolated From Different Clinical Sources In Erbil City. J. of Anbar University.

24- Characterization and Detection of *mecA* gene in Different species of Staphylococcus, Streptococcus and Kocuria Which Isolated From Thalassemia Patients in Erbil City. Forth international conference of biology science in Cihan University. 2017.

25- Comparison study of accuracy of phenotypic method for detecting biofilm producer *S. aureus* isolates. Journal of Al-Anbar University for pure science.17,2017.

26- Comparison study of *mecA* gen-based PCR with phenotypic method for detecting biofilm forming methicillin resistant *S. aureus* isolates and comparison study of *mecA* with *femA*, *femB*, and *mecC* genes. . Journal of Al-Anbar University for pure science.17,2017.

27- Detection of *Sphingomonas paucimobilis* and antibacterial activity of *Prosopis farcta* extracts on it. Karbala International Journal of Modern Science. 2017.

28- Molecular assessment of accessory gene regulator (*agr*) quorum sensing system in biofilm forming *Staphylococcus aureus* and study of the effect of silver nanoparticles on *agr* system, Iranian Journal of Microbiology, Volume 10 Number 1 (February 2018) 1-10, Scopus.

29- Isolation and Identification of *Burkholderia mallei* and its Susceptibility to *Anethum graveolens* Extracts. Zanco Journal of pure and applied sciences, Salahaddin University, 2018.

- 30- Detection of Biofilm Producer Methicillin Resistant *Staphylococcus hominis* Isolated From Different Clinical Sources. Zanco Journal of pure and applied sciences, Salahaddin University, 2018.
31. Antimicrobial Resistance of *Aeromonas salmonicida* Isolated From Common carp (*Cyprinus carpio*) Fishes in Erbil City/ Iraq, Baghdad Science Journal, 2019.
32. Bacterial Co-Infections and Antibiotic Resistance in Urinary Tract Infection of Covid-19 Patients in Erbil City/Iraq. Zanco Journal of pure and applied sciences, Salahaddin University, 2022.
- 33- Detection of *invA* gene and the emergence of ESBL genes in *Salmonella enterica* isolated from different sources in Erbil city, Iraq. Applied Ecology and Environmental Research, Impact factor 0.816, 2023.
- 34- Prevalence of *bla*TEM, *bla*SHV, and *bla*CTX-M genes among ESBL-producing *Klebsiella pneumoniae* and *Escherichia coli* isolated from thalassemia patients in Erbil, Iraq, Mediterranean journal of hematology and infectious diseases 11 (1). Impact factor 3.
- 35- Iron oxide nanoparticles reduced biofilm formation and detection of *lmb* genes in *Streptococcus agalactiae* isolated from patients with Diabetes Mellitus Medico-Legal Update 20 (1), 346-351.
- 36- Molecular identification of clinical microbes in thalassemia patients using 16S rRNA gene sequencing. Applied Ecology and Environmental Research 17 (6), 13135-13146.
- 37- Application of silver oxide nanoparticles as antibiofilm and detection of beta lactamase gene in *Escherichia coli* isolated from Diabetic mellitus patients, Indian Journal of forensic Medicine and Toxicology.2019.
- 38- Antibacterial and wound healing assessment of silver nanoparticles against MDR *klebsiella varticola*. In the 5th international conference on biomedical &

health sciences (cic-biohs'2024), at cihan university Erbil, Kurdistan region, Iraq on 6th-7th March, 2024.

39- Detection of *invA* gene and the emergence of extended-spectrum  $\beta$ -lactamase (ESBL) genes in *Salmonella enterica* isolated from different sources in Erbil City, Iraq . APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH Journal (Thomson Reuters) 2023.

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40- Genotyping and Phylogenetic Analysis of *Clostridium perfringens* Isolated from Domesticated Ruminants in Duhok Governorate, Iraq . Egyptian journal veterinary sciences. 2023.

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41- Molecular identification of newly isolated *Niallia circulans* from different wounds in Erbil city/ Iraq. In the 5th international conference on biomedical & health sciences (cic-biohs'2024), at cihan university Erbil, Kurdistan region, Iraq on 6th-7th March, 2024

42- Toxinotyping and Protein-Protein Interaction (PPI) Networks and Functional Annotation of the Detected Toxin Genes of *Clostridium perfringens* Isolated from food samples in Duhok Province, Iraq. Egyptian journal veterinary sciences. 2023.

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