Bushra Amin

Assistant Professor, Ph.D., M.Sc., B.Sc.

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**Education:**

**Undergraduate**

**1990               B.Sc., Bachelor’s Degree in Microbiology.**

College of Science, University of Salahaddin, Erbil, Iraq

**Post** **Graduate**

**1994**

**M.Sc. in Bacteriology.**

College of Science, University of Mosul, Iraq.

*Thesis: Studies involving the preservation of Lactobacillus bulgarucus and Escherichia coli.*

**2001**

**Ph.D. in Biotechnology**

                                    College of Science, University of Baghdad, Iraq.

*Thesis:* Cloning & purification of Haemolysin from *Aeromonas* *hydrphila*.

**Career Profile**

* Affiliate scientist, researcher at three universities (Baghdad, Mosul & salahaddin in Iraq, also at Erbil Teaching Hospital, Iraq) ten years

**Area of Expertise and Specialisations**:

*Macro Specialisation:*Biotechnology

*Micro Specialisation:*molecular biotechnology (Gene Engineering)

**Current lectures designated in;**

* Molecular Biology (Postgraduate & undergraduate)
* Biotechnology (Postgraduate & undergraduate)
* Molecular biotechnology (Gene engineering) (Postgraduate)

**Demonstrated command and experience in:**

1. Gel Electrophoresis
2. Gene xpert
3. Cell-based DNA cloning (Gene engineering)
4. PCR as a DMA cloning method
5. Radioisotope labelling
6. Protein purification

**Computer Skills**

Demonstrated expertise in using Microsoft applications such as Word, Excel and Access.

**Languages Spoken**

Kurdish. English .Arabic and Turkish

**Employment**

1992 – 1994, M.Sc. student (University of Mosul, Iraq)

1994 – 1997, Assistant Lecturer at the College of Science, University of Salahaddin, Erbil, Iraq

 1997 – 2001, Ph.D. student (University of Baghdad, Iraq)

2002 present, Lecturer at the College of Science, University of Salahaddin, Erbil, Iraq.

**From 2010 up to till now Assistant Professor**

**Published Theses and Papers:**

* Studies involving the preservation of*Lactobacillus bulgarucus*and *Escherichia coli.* M.Sc. thesis, 1994:
* Cloning & purification of Haemolysin from *Aeromonas hydrphila*. Ph.D. thesis, 2001.
* Molecular Cloning and Characterisation of Aerolysin from *Aeromonus hydrophila, Iraqi Journal of Biotechnology, vol. 2, No 1, 154-164, 2003.*
* Molecular Analysis of *Pseudomonas aeruginosa* Strains Isolated from Hospitalised Patients in Erbil City, *Iraqi Journal of Science, vol. 48, No 1, 54-56, 2007.*
* Identification and Characterisation of S-Layer from *Aeromonas hydrophila* and *Lactobacillus acidophillas*. *Iraqi Journal of Biotechnology, vol 4, No 1, 151-169, 2005.*
* Molecular and Genetic Studies of bacteria *Staphylococcus aureus* Isolated from Impetigo in Human, *Journal of Pure and Applied Sciences, vol. 20, No 4, 91-95, 2008.*
* Molecular studies of SHV 11 and SHV 12 genes among K.pneumoniae isolated from UTI patients in Erbil city. M.Sc thesis 2012 belongs to my postgraduate candidate.
* Evaluation of femA gene and mecA gene for detection of methicillin\_resistant Staphylococcus aureus (MRSA) in Rizgary and west emergency hospitals in Erbil city.

M.Sc. thesis 2015 belongs to my postgraduate candidate.

* A microsatellite study for determination of allelic variation of Kurdish population Kurdistan region, Iraq. M.Sc. thesis 2017 belongs to my postgraduate candidate.
* A microsatellite study for determination of allelic variation of Kurdish population Kurdistan region, Iraq. Published by the American Institute of Physics. AIP Conference Proceedings 1888, 020036 (2017): doi: 10. 1063/1.5004313.
* Diagnostic assessment of gene Xpert MTB/RIF in a sample of Mycobacterium Tuberculosis in Iraq, Kurdistan patients. International of Technical Research and Application e-ISSN 2320-8166, [www.ijtra.com](http://www.ijtra.com) Vol. 3, Issue 5 (September-October, 2015). PP.255-259
* Relationship between blaSHV genes in Klebsiella pneumoniae .Zanco journal of pure and applied science..ZJPAS(2017) 29 (4) 128-133. <http://dx.doi.org/10.21271/ZJPAS.29.4.13>
* Molecular study of SHV11 and SHV 12 genes among Klebsiella pneumonia isolated from UTI patients in Erbil city.Zanco journal of pure and applied sciences.ZJPAS (2016).28(4).25-35.
* Molecular analysis of kiebsiella pneumonia isolated from UTI patients in Erbil city . Accepted for publishing.
* Evolutionary Phylogenetic Analaysis of isochorismate synthase in Photosynthetic Eukaryotes . This research under running.
* 16 SrRNA and OMP 31 Gene based molecular characterization of Brucella melitensis from patients in Erbil city.This research under running.
* Genotyping of hepatitis C virus patients in Erbil city, this research is under running.
* Multi locus sequencing typing and effect of rpo B variations on resistance of mycobacterium tuberculosis to antibiotics .Ph.D Project under running