

UNIVERSITY OF DUHOK

College of Science

Scientific Res. Center

ب.د. جلادت محمد صالح جبرائيل



- **Dr. Jaladet Mohammed Saleh Jubrael**
- **Scientific Title: Professor**
- **Date of Appointment to the University:**
(1979, University of Basrah)
(2003; University of Duhok)

• Degrees Awarded:

- **Higher Diploma in Genetics**, Institute of Dr. P. Groza, Cluj- Napoca/ Romania/ Academic Year; **1973-1978**
- **M. Sc., in Molecular Genetics**, the Victoria University of Manchester/ UK/ Academic Year; **1982-1983.**
- **Ph. D., in Genetic Engineering**, the Victoria University of Manchester/ UK/ Academic Year; **1983-1987.**

• Expertise:

• Gene Cloning

- General molecular biology techniques: the main expertise includes the development and adapting various methods for DNA isolation from different organisms such as plants, microorganisms, blood and different human and animal tissue etc. Restriction endonuclease analysis of genomic DNA isolated from different organisms and gel electrophoresis separation of digested fragments using both vertical and Horizontal Systems. Southern blotting techniques using wet, dry and dot blotting methods. Work on DNA labeling techniques of cloned fragments and synthetic Oligonucleotides have also been performed using either ^{32}P isotopes and/or non-radioactive labeling systems, to be then used in different hybridization experiments. These experiments and expertise led to the construction of genomic libraries (gene cloning) using bacteriophage (lambda) and Plasmids as cloning vectors. Introduction of recombinant vectors into *E. coli* using *in vitro* packaging systems or Transformation. To run many of these experiments, I had myself to design, modify and make my own equipments such as electrophoresis, UV box, hybridization incubator etc.
- **DNA Marker Technologies:** These techniques have formed the major area of interest in my research program over the last three decades. In this context different DNA Markers have been adapted and applied in our laboratories. All these DNA marker types have been largely employed in genetic diversity analysis, DNA Fingerprinting and genetic relationships among different economically important plants Species/ varieties, human diseases, microorganism's detection and typing etc. The major types of markers used were RFLP and Oligonucleotides DNA Fingerprinting as hybridization – based DNA Markers. DNA markers based on PCR techniques were also widely used in the research program. Regarding these techniques, it is important to mention that I was lucky to be the first to introduce and apply them in Iraq and perhaps in many countries in the region. This was possible in collaboration with the International Center for Agriculture in Dry Areas (ICARDA). The main types of these markers included RAPD, AFLP, DAF, CAP s, SCAR, SSR.

● **Experience:**

1979 – 1982	Demonstrator, Participated in teaching Practical Classes of genetics at colleges of Science and Agriculture/ Univ. of Basrah - Iraq.
1987 – 1990	Lecturer, teaching Molecular genetics in the Dept. of Biology College of Science Univ. of Basrah.
1990 – 1993	Lecturer then Assist Professor at Baghdad Univ. teaching Molecular genetics and genetic engineering at the Dept. of Biology, College of Science. During this period, I was also working part time as Research Scientist at IPA-Agriculture Research Center, Baghdad- Iraq
1993 – 2003	Full time Assist. Prof., and then Professor (2000) / Director of the Biotechnology Central Lab/ IPA Agric. Res. Center.
2003 - Until now	Prof. of Molecular biology at Dept. of Biology, College of Science, Univ. of Duhok. Iraq.
2000 - Until now	Biotechnology Consultant at the Arab Authority for Agriculture Investment and Development (AAAID)/ Arab League.

● **Training courses:**

I have participated in many individual as well as group training courses, and had also Organized such activities examples;

1998 – ICARDA/ Syria;	DNA Marker Technologies in the Crop Improvement.
1999 – Baghdad/ Iraq	DNA Marker Technologies in the Crop Improvement. Organized by ICARDA/ IPA
2000 - Cairo/ Egypt	<i>In Vitro</i> Biology/ Transformation Technologies. Organized by ICARDA and AGERI/ Egypt
2004 – Duhok/ Iraq	DNA manipulation and Mammalian Tissue Culture Techniques. Organized By Duhok Univ. / Millennium (MRDS) Org.
2005 – Duhok /Iraq	Molecular Biology Techniques organized for Staff members of this University and Mosul Univ.

● **Conferences:**

I have participated during the last decade in more than Thirty local, regional and international conferences presenting papers and posters. Also as a Coordinator of the organizing Committee

• Awards:

1. 1993 Highest National and Regional Scientific Award for Sciences/ Genetic Engineering.

This award used to be given to distinguished scientists presenting original scientific research projects, papers etc... **It was to be awarded by a Presidential Decree.**

2. 1998, 2000, 2002 Three Appreciation Certificates/ Presidential Office.

This certificate used to be awarded to selective scientists annually (starting 1998 - 2003) in recognition of their input in research in the previous year. They used to be given on 18th of Jan. (Science Day) in a ceremony and in the presence of selective Officials and Iraqi scientist.

3. 1995 Appreciation Certificate / Minster of Agriculture - Iraq

4. 2001 Appreciation Certificate/ Minster of Higher Education & Scientific Research

5. Certificates, Letters of appreciations from the President of Baghdad and other Universities and different Colleges.

6. Appreciation Letter/ Minister of Higher Education KGR

7. Certificate of Appreciation/ University of Tikrit 2014

Post – graduate Studies 1993 – 2010:

A. Teaching:

Advanced Molecular Biology, Genetic Engineering and DNA Marker Technology at the following

Department	College	University
Biology	Science	Baghdad
Biotechnology	Medicine	Al – Nahrain
Microbiology	Education	Al – Munstansiriya
Biology	Science	Duhok
Molecular biology	Medical	Haulair Medical Univ.

B- Supervision:

I have supervised more than 30 **M. Sc** and **Ph. D** Students from the above Colleges on different aspects of molecular biology and Genetic eng. Projects

• Postgraduate Supervision:

• Finished

Student's Name	Type of Thesis	Thesis Title	Academic Year
Saad Hasan Mohammed	Ph. D.	Molecular Biological Studies of Human Papillomavirus Infections in Patients with Cervical Neoplasia.	2000-2001
Sahar Abdul Wahab Hassan	Ph. D.	Epidemiological Study of <i>Pseudomonas aeruginosa</i> by Conventional Bacterial Markers & DNA Polymerase Chain Reaction	2001-2002
Akeel Hussein Ali	Ph. D.	The use of DNA Markers for Genetic Diversity Analysis of Barely (<i>Hodeum vulgare</i> L.)	2001-2002

		Cultivated in Iraq.	
Nasir Abdul-Salam. Al-Allawi	Ph. D.	Activated Protein C resistance and Factor v Leiden in Iraqis and Some of Their Clinical Implications.	2003-2004
Sundus Lateef Jasim	Ph. D.	Genetic Polymorphism of Breast Tumors Using Polymerase Chain Reaction Based Techniques.	2003-2004
Niemat Jameel Al-Judy	Ph. D.	Detecting of DNA Fingerprints and Genetic Relationship Analysis in Local and Improved Rice (<i>Oryza sativa</i> L.) Varieties in Iraq Using RAPD Markers.	2003-2004
Kholood Ibrahim Hassan	Ph. D.	The Use of Polymerase Chain Reaction-Based Molecular Markers to Assess Genetic Diversity of Potato (<i>Solanum Tuberosum</i> L.)	2001-2002
Raad Abdul-Ghany Al-Sanjary	Ph. D.	Differentiation between Different Animal Meats Using a Polymerase Chain Reaction Technique	2005-2006
Ammar Mohammed Salih	M Sc.	Genomic Library Preparation for Tolerance Plant (<i>Tamarix Brachystachys</i>) Using <i>E. Coli</i> Bacteriophage (EMBL3) as Cloning Vector.	1993-1994
Sahar Abd – Al wahab Hassan	M Sc.	Cloning Genomic DNA Fragments of a Poultry Strain in the Bacteria <i>E.Coli</i>	1993-1994
Akeel Hussien Ali	M Sc.	Physiological Study and Detection of DNA Polymorphisms in a Number of Salt Tolerant Barley (<i>Hordeum Vulgare</i> L) Varieties /Lines.	1995-1996
Khalaf .j. AlDolaimi	M Sc.	On the Molecular Biology of a Novel Halo Tolerant Bacterium (<i>Micrococcus</i> Sp).	1996-1997
Harb Addel Abed Mohammed	M Sc.	Restriction Fragment Length Polymorphism In Barley <i>Hordeum Vulgare</i> L.	1998-1999
Tamara Adnan Al-Khateeb	M Sc.	The Use Of Random Amplified Polymorphic DNA (RAPD) Markers For Sex And Male Cultivars Identification In Date Palm (<i>Phoenix Dactylifera</i> L.) In Iraq	1999-2000
Yassen Ismaeel Aumran	M Sc.	The Use Of Random Amplified Polymorphic DNA (RAPD) Markers to Identify a Number of Chickpea (<i>Cicer Arietinum</i> L.) Varieties/Lines Cultivated in Iraq.	1999-2000
	M Sc.	Construction of a Gene Bank for a	2000-2001

Lamiaa Fingan Al-Malk		Halo Tolerant Bacteria Micrococcus Sp.(Strain Gi) in E. Coli	
Dalia Saib Hannoudi	M Sc.	Bacteriological and Molecular Study of Vibrio Spp. in Iraq.	2001-2002
Rafat Hamdi Abdul Jaleel	M Sc.	Application Of RAPD Markers in the Identification and Genetic Relationship Assessment among a Number of Salttolerant Bread Wheat (<i>Triticum Aestivum</i> L.) Lines	2001-2002
Alaa Mohsen Al-aaraj	M Sc.	DNA Fingerprinting of <i>Fusarium Solani</i> (Mart.) Sacc Isolates Causing Root and Stem Rot of Eggplant By Using Random Amplified Polymorphic DNA (RAPD)	2002-2003
Ghassan Mohammed Ahmed	M Sc.	Detection of Genotoxicity in Mice (<i>Balb/C Mice</i>) Exposed to Lead Oxide	2002-2003
Haidar Ahmad Shamran	M Sc.	Extraction, Purification and Determination of Some Properties of Polymerase Enzyme from Local Isolate of <i>Thermus Aqaticus</i>	2003-2004
Narmeen Sae'd Merza	M Sc.	Isolation And Identification of <i>Staphylococcus Aureus</i> Using Classical and Molecular Methods	University of Duhok 2006
Salar Saadi Hussain	M Sc.	Fingerprinting of Breast Cancer	University of Duhok 2007
Shaymaa Hadi Ali	M Sc.	Genetic Diversity Analysis of Some Grape Species in Kurdistan Region	University of Duhok 2007
Siham Nori Jafaer	M Sc.	Study of <i>Pseudomonas aeruginosa</i> by Using Conventional Bacterial Markers and DNA Polymerase Chain Reaction	University of Duhok 2007
Haval Mohammed Khalid	M Sc.	Bacteriological and molecular characterization of <i>K. prummonia</i> from clinical and hospital environment samples	University of Duhok 2008
Ahmed Basheer Mohammed	Ph. D.	Detection of genetic variation between some of Iraqi sheep breeds using DNA Markers	University of Duhok 2009
Najim A. Yasin	Ph. D.	Isolation and Identification of Campylobacter Jejune by Using Classical and Molecular Methods	University of Duhok 2008
Fareda Fareeq Nerway	Ph. D	The Detection of β -Thalassemia Mutations by Amplification	University of Duhok 2008

		Refractory Mutation System (ARMS) and Reverse Hybridization in Duhok Area.	
Mayada I. Yalda	Ph. D	Genetic analysis of breast cancer specific mutation using PCR –and immunohistochemistry	University of Baghdad 2009
Hemin Esmael Othman	M. Sc	Molecular Epidemiology and Bacteriological Identification of Staphylococcus aureus Isolated from Koya, Erbil and Duhok Hospitals.(2008)	University of Koya 2009

Student's Name	Type of Thesis	Thesis Title	Academic Year
Adnan Fadhil Nasseef Al Azawy	M. Sc.	Diagnostic study of type I and Type II diabetes mellitus	University of Tikrit 2008
Muhsin Jamil Abdulwahid	M. Sc.	Detection of High risk human papiloma virus in a population at Duhok Region using a PCR-based technique	University of Salahaddin 2010
Zeinab Mohammed Unis Al-Asaadee	M. Sc.	Molecular analysis of allelopathic potential of some rice cultivars (<i>Oryza satival.</i>) cultivated in Kurdistan Region-Iraq	University of Dohuk 2007
Shamal Abdullah Mohammed Saeed Al-Mufti	Ph D.	Genetic diversity analysis of anopheles sp. In Kurdistan Region-Iraq, using molecular biology techniques.	University of Baghdad 2008
Mayada Ilias Yalda Al- Sanati	PhD.	PCR study of BRCA1 BRCA2 in correlation to Immunohistochemical expression of P53, Estrogen and progesterone receptors in breast cancer	University of Baghdad 2009
Nazar Ali Ameen	M Sc.	Detection of genetic alternations in brain tumer using molecular markers	Uni. of Duhok, 2009
Mukhlis Hamad Aali Al-Harawi,	M Sc.	Fingerprinting and Genetic Diversity Analysis of A Number of Peach (<i>Prunus persica L.</i>) Varieties Grown in Kurdistan Region-Iraq by RAPD-PCR Markers	Uni. of Duhok, 2010
Katan Sabir Ali	Ph D.	Molecular and immunological study of human papiloma virus infections among patients with different cervical lesions in Kurdistan region- Iraq	Hawler Medical University 2010

Kamal Bennyamin Esho	Ph D.	Genetic Architecture of yield and its components in peas using Diallel crosses and molecular markers (DNA)	University of Mosul 2012
Raed Abduljabbar Haleem	Ph D.	Morphological and molecular identification of fungal associated with grapevines decline Phenomenon in Duhok Governorate.	University of Duhok 2011
Iman Hussein Fadel-Al Deen	M. Sc.	Molecular characterization of Escherichia coli isolated from UTI patients attending Azadi Hospital in Duhok	University of Duhok 2012
Awat mohammed	M Sc.	Genetic Diversity of Walnut (<i>Juglans regia</i> L.) populations in Duhok Province revealed by Microsatellite Markers	University of Zakho 2013
Shelan Hawal Rasol	M Sc.	Direct identification of E .coli using PCR based technique from urine samples collected from Duhok Province	Uni. of Duhok, 2013
Abdullah Ahmed Hama	Ph D.	Epidemiological study and molecular characterization of <i>Echnococcus granulosus</i> in Slemani province in Kurdistan-Iraq	University of Zakho 2013
Dalal Y. Khuder	M Sc.	Microsatellite application and genetic characterization of Pomegranate (<i>Punica granatum</i> L.) in Duhok Province/ kurdistan region.Iraq	University Duhok, 2013
Narmin Saeed Merza	Ph D.	Clonal Grouping of Uropathogenic Escherichia coli in Kurdistan Region-Iraq Using different Molecular Typing Methods	University of Zakho 2013
Haval M. Khalid	Ph D.	Molecular epidemiology of extended spectrum B-lactamase in clinical isolates of Klebsiella pneumonia isolated from Kurdistan region- Iraq.	University of Zakho 2013
Avesta M. Ali	Ph D.	Inter and intra characterization of Pronus Genus using DNA markers and chemical components profile techniques.	University of Zakho 2013
Gihan H Hamed	Ph D.	Molecular analysis of BRACA 1 and BRACA genes and histopathological study on breast cancer pateints in Erbil Kurdistan Region-Iraq	University of Mosul 2016

- The Effect of G-418 on Germination and Growth of *Pteridium Aquilinum*. Proceedings of the Royal Society of Edinburgh, 86, 464-465, 1985.
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- Polymorphisms in Bracken DNA in Bracken, Ecology, Land Use and Control Technology. Pp. 209 – 313. R. T. Smith and J. A. Taylor (Eds.) Carnforth Lancs: Parthenon Publishing, 1986.
- Detection of Genetically Useful Variants in the Fern *Pteridium* International Conference of Biology of Bracken, Sydney, Australia PP. 79 – 86. J. A. Taylor and R. T. Smith (Eds.), 1989.
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- Recombinant DNA Technique for Improvement of Salinity Tolerance in Cultivated Plants, 1. Preparation of DNA for Molecular Cloning Isolated From a Wild Salt Tolerant Plant. Proceeding Of The Workshop On Technology Transfer In The Production Of Cereal And Legume. Pp.55-64. ICARDA/ IPA Agric. Res. Cent. (Eds.), 1993.
- Employment of Genetic Engineering Techniques in Early Detection of Sex and Variety of Date Palm (*Phoenix Dactylifera*) In Iraq. I. Isolation, Purification Of High Molecular Weight DNA Using a Reliable Adapted Method and It's Restriction Endonuclease Analysis. J. IPA-Agri. Res .3; 2;.23 7-24, 1993.
- Employment of Genetic Engineering Techniques in Early Detection of Sex and Varieties of Date Palm (*Phoenix Dactylifera* L.). II. Cloning of Date Palm DNA Fragments Using an *E. Coli* Plasmid *Pgem-7Zf* (-) as a Cloning Vector. J. IPA-Agri. Res. 4.45-54, 1994.
- The Use of Tissue Culture Technology in Cereal Crop Breeding. Proceeding of the National Symposium on the Use of Modern Techniques for Cereal Breeding. Pp. 25-36. Arab Organization for Agriculture Development, 1994.
- Cloning of Barley Genomic DNA Fragments into *Hind III* Site of the Plasmid *Pgem-7Zf* (-). Proceedings of the Regional Symposium on Integrated Crop – Livestock Systems in the Dry Areas of the West Asia and North Africa. Pp 113-118. Amman – Jordan, 1995.
- Physiological Study and Detection of DNA Polymorphisms in a Number of Salts Tolerant Barley (*Hordeum Vulgare* L) Varieties/ Lines. IPA. Journal of Agricultural Research, Vol.7, No.1, 1997.
- Detection of DNA Polymorphisms in the Fungus *Aschochyta Rabei* Using PCR Techniques. Ibn Al- Haitham J. Pure And Appl. Sci. 1; 645, 1997
- Preparation of Recombinant DNA Molecules for a Halophytic Plant (*Tamarix Brachystachus*) in the Phage EMBL3. J. IPA. Agric. Res.8;.53-72, 1998.

- DNA Repair Systems of the Novel Halotolerant Bacteria *Micrococcus* Strain G1. Iraqi J. Microbiology. 252 – 98, 1998.
- Cloning Genomic DNA Fragments of a Poultry Strain in the Bacteria *E. coli*. Al – Munstansiriya J. Sci. 10: 1: 13 – 19, 1999.
- Construction of a Gene Bank for an Extremely Halophytic Bacterium *Halobacterium Halobium* in *E. coli*. Iraqi J. Microbiology. 12; 1; 53-64, 2000
- RAPD Analysis for Estimation Genetic Relationships among a Number of Iraqi Barley (*Hordeum Vulgare* L) Cultivars/ Lines. Iraqi J. Sci. 41B: 2: 1 – 17, 2001.
- The Use of RAPD Markers as a Typing Method for Epidemiological Investigation of *P. Aeruginosa*. Iraqi J. Microbiology 13: (2) 22 – 33, 2001.
- Genetic Characterization of a Number of Date Palm (*P. Dactylifera* L.) Varieties in Iraq Using RAPD Markers. IPA J. Agric. Res. 11:1. 138- 149, 2001.
- RAPD Analysis For Estimation Of Genetic Relationship Between Goat Breeds In Iraq. IPA J. Agric. Res., 2001.
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- Use of AFLP Markers for DNA Fingerprinting of Barley (*Hordeum Vulgare* L.) Cultivated in Iraq. Tikrit Pure Sci. J. Vol.9, No.2, 2003.
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- Assessment of AFLP Based Genetic Relationships among Date Palm (*P. Dactilifera L.*) Varieties of Iraq. J. Amer. Soc. Hort. Sci. 130:3: 442 – 447, 2005.
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- Jaladet M.S. Jubrael. Molecular Characterization of β - Thalassemia in the Duhok region of Iraq. Informa Healthcare, Vol.30, No.4, 2006.
- The use of PCR – based molecular marker to fingerprint some Potato cultivars propagated *in vitro*. J. Duhok Univ. 2007 (in press)
- The use of RAPD for the detection of genetic stability of regenerated plantlets of Date palm in Iraq. Int. Society in Horticulture Science. 111 Int. Date Palm conferences 2006.
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- Raad A. Al-Sanjary and Jaladet M.S. Jubrael. (2008): Using Species specific Polymerase Chain Reaction technique in preparation specific marker to distinguish different types of meat. JDU Vol. 12 special Issue.
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- Narmeen S. Merza and Jaladet M.S. Jubrael (2009): Isolation & Identification of methicillin resistant *Staphylococcus aureus* using multiplex PCR assay.
- Shaymaa H. Ali, Avesta M. Ali and Jaladet M. S. Jubrael (2009): Genetic Diversity of apricot (*Prunus armenical*) varieties in Duhok- Region using AFLP markers. JDU Vol. 12. 17-22.
- Narmeen S. Merza and Jaladet M. S. Jubrael (2009): Isolation and Identification of *Staphylococcus aureus* using classical and molecular methods. JDU special Issue. Vol. 12. 10-16
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- Farida F. A. Nerweyi ,Nasir Al-Allawi, and Jaladet M.S. Jubrael. Detection of β -Thalassemia Mutations by Amplification Refractory Mutation System and Reverse Hybridization in Dohuk Governorate/IRAQ.

- Ahmed B. Mohammed, Jaladet M.S. Jubrael. Direct and Highly Species-Specific DNA Fingerprints of Some Iraqi Sheep Breeds.
- Hemin E. Othman and Jaladet MS. Jubrael. Molecular fingerprinting and Phylogenetic Diversity of *Staphylococcus aureus* Isolated From Dr. Khalid General Hospital In Koya.
- Shaymaa H. Ali and Jaladet MS. Jubrael. Genetic Diversity of Apricot (*Prunus armenica* L.) Varieties in Duhok-Region using AFLP-Markers.
- Al-Allawi NA, Eissa A.A, Jubrael J, Jamal SAR, Hamamy H. Prevalence and molecular characterization of G6PD deficient variants among the Kurdish population of Northern Iraq. *BMC blood disorders* 2010; 10:6.
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- Hemin E. Othman, Khidir M. Hawrami and Jaladet M.S. Jubrael.(2010). Molecular Fingerprinting and Phylogenetic Diversity of *Staphylococcus aureus* Isolated From Dr. Khalid General Hospital in Koya. *JUD Vol.13 No.1 special issue.*
- Merza Narmin S. and Jubrael Jaladet M.S. (2009). Isolation and identification of *Staphylococcus aureus* using classical and molecular methods".*Journal of Duhok University, Vol.12 No.1 (Special issue)*
- Haleem Raed A., Abdullah S. K., Jubrael Jaladet M. S. (2011). Mycobiota associated with grapevine cuttings in Duhok nurseries (Kurdistan region-Iraq. *International scientific conference of Salahaddin University-Erbil (SU-ERBIL2011).*
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- Haleem Raed A. , Abdullah Samir K. and Jubrael Jaladet M.S. (2011) Morphological And Molecular Identification of *Phaeoacremonium aleophilum* Associated with Grapevines Decline Phenomenon in Duhok Governorate, *Journal of Basrah Researches ((Sciences))* Volume 37. Number 4.
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- Esho K. B., Al. Kumar and Jubrael Jaladet M.S.(2012) Diallel analysis using Hyaman method to study Genetic Architecture of vegetative growth in Peas *Pisum sativum* L..*Bull. Fac. Agri. Cairo Uni., 63:439-449.*
- Haleem Raed A. , Abdullah Samir K. and Jubrael Jaladet M.S. (2013) Occurrence and distribution of fungi associated with Grapevine decline in Kurdistan region-Iraq. *Agric. Biol. J. N. Am., 4(3): 336-348.*

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- Othman Hemin E., Merza Narmeen S. and Jubrael Jaladet M.S. (2013) Nucleotide sequence analysis of Methicillin resistance Staphylococcus aureus in Kurdistan region-Iraq. *Journal of University of Zakho (the 1st international scientific conference)*.
- Khalid H.M., Yousif S. Y, Jubrael J. M.S. (2013). Bacteriological and Molecular characterization of extended spectrum B- lactamase in clinical isolates of Klebsiella pneumonia isolated from Kurdistan region- Iraq. *Journal of University of Zakho (the 1st international scientific conference)*.
- Hama A.A., Jubrael J. M.S. and Mero W. MS. (2013).Molecular Identification of Echinococcus granulosus (GI) strains in Human and Animals. *Journal of University of Zakho (the 1st international scientific conference)*.
- Ali Shayma H., Al Singari Dalal Y. and Jubrael Jaladet M. S. 1(2015). Analysis of Plum (P. domestica L.) genotypes in Duhok city using AFLP markers. *Int. J. Bioinformatics and Bioinformatical Engineering. Vol 1. No. 2 64- 60.*
- Al Baiati Nuha S., F, Al Nasri S. and Jubrael Jaladet M. S. (2015) Epidermal growth factor I human urine as promoter for growth of leishmania spp. In vivo. *Tikrit J. of Pure Science. (In press)*.
- Al Baiati Nuha S., Al Nasri F, S. and Jubrael Jaladet M. S. (2015). Determination of immunoglobulin's levels in cutaneous leishmainasis patients. *Tikrit J. of Pure Science. (In press)*.
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- Merza Narmin S. and Jubrael Jaladet M.S.(2015).Phylogenetic Grouping of Uropathogenic Escherichia coli Using Different Molecular Methods in Kurdistan Region-Iraq, *International Journal of Chemical and Biomolecular Science; Vol. 1(4): 284-291.*
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Lactamase Producing *Escherichia Coli* Isolated From Urine in Kurdistan Region-Iraq; *5th International Scientific Conference on Applied Sciences and Engineering*.

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