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Name: May Talib Flayyih (Flaih)

Specialization: Microbiology /Pathogenic bacteria , Bacterial toxins

Position: Staff member

Representative of the Ministry of Higher Education and Scientific Research at National Bio Risk Management Committee , Iraq

Scientific Degree: Professor

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. Baghdad; Jadirriyah ; Baghdad ; Iraq

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Research experience I published more than 83 papers. Right now I am Supervising 11 PhD Students and 30 MSc students were already graduated .through 2005-2019

■ **First, Scientific Certification:**

Degree science	University	College	Date
.B.Sc	University of Baghdad	College of Science	1988
.M.Sc	University of Baghdad	College of Science	1995
.Ph.D	University of Baghdad	College of Science	2000

Any other			
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■ **Second, Career:**

No.	Career	Workplace	From -To
1	Lecturer	Department of Biology ; College of Science ; University of Baghdad	2000-2004
2	Assistant professor	Department of Biology ; College of Science ; University of Baghdad	2004-2011
3	Chairman of Biology Department	Department of Biology ; College of Science ; University of Baghdad	November 2005- March 2006
4	professor	Department of Biology ; College of Science ; University of Baghdad	Since 2011
5	Deputy Dean	College of Science	18/7/2007 -6/12/2010
6	Chairman of the Scientific Promotion Committee	College of Science	Since October 2015-2018
7	Representative of the Ministry of Higher Education and Scientific Research	National Bio Risk Management Committee (NBMC) , Iraq	Since August 2015
8	Representative of the Ministry of Higher Education and Scientific Research	NBMC / Sub-Committee Raising Awareness	Since August 2015

■ **Third, Thesis which was supervised by :**

.No	Thesis title	type	Department	year
1	Study of some immunological aspects in diabetic patients with soft tissue infection	M.Sc	Biology	2005
2	Production & characterization of	M.Sc	Biology	2005

	urease produced by <i>Saphylococcus saprophyticus</i> And study its effect on kidney and bladder of white mice			
3	Extraction & purification of Beta – lactamase enzyme produced by <i>Staphylococcus saprophyticus</i>	M.Sc	Biology	2005
4	Role of peptidoglycan in the pathogenicity of <i>Saphylococcus saprophyticus</i>	M.Sc	Biology	2005
5	Production & characterization of Beta – lactamase enzyme produced by <i>Klebsiella oxytoca</i>	M.Sc	Biology	2005
6	Extraction & purification of LPS from <i>Klebsiella oxytoca</i> & study its role in the pathogenicity	M.Sc	Biology	2005
7	Study of pathological effects of peptidoglycan from <i>Streptococcus pneumoniae</i> & <i>Bacillus subtilis</i>	M.Sc	Biology	2006
8	Comparative pathogenicity of peptidoglycan extracted from <i>S. xylosus</i> & standard LPS extracted from <i>E.coli</i>	M.Sc	Biology	2007
9	A comperative study on some pathological aspect between <i>S.xylosus</i> & <i>S. saprophyticus</i>	M.Sc	Biology	2007
10	A study on some virulence factors of coagulase negative staphylococci isolated from skin infection in Sullaimaniya hospitals	M.Sc	Biology	2007
11	The role of partial purified lipoteichoic acid from <i>Enterococcus faecalis</i> isolated from different local clinical specimens in the adherence	M.Sc	Biology	2007
12	Extraction & partial purification of fimbria from <i>Proteus mirabilis</i> on ureoepithelial cells	M.Sc	Biology	2007
13	Study on pathogenicity of <i>Enterobacter cloacae</i>	M.Sc	Biology	2007
14	Study the effect of antibiotics on biofilm inhibition in infection associated with external fixation	M.Sc	Biology	2008
15	The role of protease produced by <i>Pseudomonas aeruginosa</i> in corneal ulceration	PhD	Biology	2008

16	Study of some physical and chemical properties of staphylolysin produced from <i>Pseudomonas aeruginosa</i>	M.Sc	Biology	2009
17	The prophylactic role of lipopolysaccharide of <i>Pseudomonas aeruginosa</i> against corneal infection	M.Sc	Biology	2010
18	The role of surface proteins of <i>Streptococcus mutants</i> in biofilm formation	M.Sc	Biology	2010
19	Comperative study between methicillin resistant and sensitive <i>Staphylococcus aureus</i> and the effect of some plant oils on bacteria	M.Sc	Biology	2011
20	study of methicillin resistant <i>Staphylococcus epidermidis</i> distribution and the correlation between methicillin resistant and some virulence factors	M.Sc	Biology	2011
21	Comperative study between methicillin resistant coagulase positive and negative staphylococci	M.Sc	Biology	2011
22	Production & characterization of methionine gamma lyase from <i>Pseudomonas putida</i> and its effect against tumor cells <i>in vitro</i> and <i>in vivo</i>	PhD	Biology	2012
23	Study on pathogenicity of streptococci group D	M.Sc	Biology	2013
24	Immunogenical and pathological effects of <i>Camellia sinensis</i> and <i>Glycyrrhiza glabra</i> extracts on keratitis	M.Sc	Biology	2013
25	Detection of staphylococci and their enterotoxins in milk and white cheese by the genetic and immunological methods	PhD	Biology	2013
26	The effects of LAB strains on body weight , WC and lipid profile in obese people	M.Sc	Biology	2013
27	Detection of toxin CNF1 cytotoxic necrosis factor1 produced from E coli and study its role against process apoptosis	PhD	Biology	2014
28	Detection of vancomycin resistance among methicillin resistant <i>Staphylococcus aureas</i> and their effect on autolysis	M.Sc	Biology	2014
29	The relationship between vancomycin resistant and autolysis in <i>Staphylococcus epidermidis</i>	M.Sc	Biology	2014

30	In vivo study on the effect of uricase produced by <i>P. aeruginosa</i> against hyperuricemia	PhD	Biology	2015
31	The production and characterization of pyomelanin of <i>P. aeruginosa</i> and the .effect of hmgA gene on it	PhD		2015
32	Detection of colicinogenic <i>E. coli</i> isolated from different sources by PCR	M.Sc	Biology	2015
33	The effect of nanoparticles on the virulence and pathogenicity of <i>Candida</i> spp.	PhD	Biology	2016
34	The role of <i>Bacteroides</i> and <i>Furmicutes</i> in obesity in Iraqi patient	PhD	Biology	2016
35	The prevalence of Macrolides and lincomycin resistance <i>Staphylococcus aureus</i>	PhD	Biology	2016
36	Isolation of <i>Staphylococcus aureus</i> Strains from Human Sources with Resistance and Intermediate Resistance to Vancomycin	M.Sc	Biology	2017
37	Incidence of <i>Klebsiella</i> Species in Surface Waters and Their Expression of Virulence Factor in compare with clinical isolates	M.Sc	Biology	2017

:Fourth, Conferences which you participated

.No	Conferences Title	Year	Place	Type of Participation
1	Teacher training network for Iraq , Chemistry and Biology Workshop	2007.	UNESCO and Faculty of Education, University of Alberta. Canada.	/
2	3 rd scientific conference of the College of science	2009	University of Baghdad	Research
3	-First Scientific Conference of Diagnostic Kit /Alraze Center for Research and Diagnostic Kit	2009	University of Baghdad	Research

4	Second Scientific Conference of Institute of Genetic Engineering and Biotechnology for Graduate Studies	2009	University of Baghdad	Research
5	Livelihood and health Impacts of the Climate Change , Community Adaptation Strategies	2010	Faculty of Public Health, Khon Kaen University , Khon Kaen ,Thailand.	Research
6	Third Medical Conference	2011	College of Medicine – Babylon University	Research
7	The 4 th International Scientific Conference of Salahaddin University-Erbil	2011	Salahaddin University-Erbil	Research
8	- The 8 th Annual International Conference , Egyptian Society Experimental Biology	2012	Egypt	Research
9	The 1st scientific conference of the College of science	2012	University of Baghdad	Research
10	The 1st scientific conference of the College of Medicin	2012	University of Mousel	Research
11	Responsible Research in Life Sciences Workshop,CRDF.	2013	Baghdad, Iraq.	/
12	2nd scientific conference of women, the College of science for women	2013	University of Baghdad	Research
13	The 5 th International conference of Microbiology and Biotechnology , College of science ,	2013	University of Basrah	Research

14	Workshop in Nanotechnology	2013	Materials Science and Engineering , Georgia Institute of Technology, Atlanta, Georgia , USA	/
15	Workshop on Biorisk Management Curriculum Analysis. SANDIA Iraq universities	2015	Seychelles	/
16	The 1st International Conference On Biology in Iraq	2015	Baghdad	Research
17	The 3 rd International Conference of education college for pure sciences	2015	Karbala university	Research
18	Video conference of Iraqi National Biorisk Management Committee	7-8 September 2016	Baghdad , Iraq	/
19	Eighth Workshop of Iraqi National Biorisk Management Committee	28 February -2 March 2017	Erbil , Iraq	/
20	1st International Conference of Women in Science . Women in Science Without Borders	21-23 March 2017	Cairo, Egypt	Research
21	Workshop from Elsevier Publishing Campus, Elsevier Author Seminar.	22 March 2017	Cairo, Egypt	/

■ **Fifth ,Research Projects in The Felid of Specialization to The Environment and Society or the Development of Education:**

No.	Research Title	Place of Publication	Year
1. 1	Study of alpha toxin from <i>Closteridium perifrenges</i> ..	J. of Microbiology.8(1): 23-43	1996
2. 2	Study of cysteine protease produced by <i>Streptococcus pyogenes</i>	J . of Microbiology	2002
3.	Study the effect of Some factors on production of bacteriocin from <i>Proteus vulgaris</i> .	J. of Biotechnology Researches . 5(1):59-68	2003
4.	Production of haemolysin enzyme from <i>proteus</i> isolated from patients with urinary tract infections .	J. of Biotechnology Researches . 6(1): 61-70 .	2004
5.	Production & purification of haemolysin enzyme from <i>proteus penneri</i> .	J. of Biotechnology Researches . 6(2): 79-87.	2004
6.	Production & characterization of urease produced by <i>Saphylococcus saprophyticus</i>	J. of Biotechnology Researches . 8(1): 33-53.	2006
7.	Extraction & purification of Beta – lactamase enzyme produced by <i>Staphylococcus saprophyticus</i> ..	J. of Biotechnology Researches . 8(2): 20-36	2006
8.	Extraction and purification of peptidoglycan from <i>Staphylococcus saprophyticus</i> .	J. AL-Nahrain University. Vol.8,no.2	2006
9.	The pathological effect of peptidoglycan on Rats lungs part one : Pathogenic bacteria <i>Streptococcus pneumonia</i> .	J. AL-Nahrain University.10(2): 87-93.	2007
10.	The pathological effect of peptidoglycan on Rats lungs part two : Non pathogenic bacteria <i>Bacillus subtilis</i>	.J. AL-Nahrain University.10(2): 81-86.	2007
11.	Production & characterization of Beta – lactamase enzyme produced by <i>Klebsiella oxytoca</i> .	J.AL-Nahrain University.10(2): 69-76.	2007

12.	Role of peptidoglycan in the pathogenicity of <i>Staphylococcus saprophyticus</i> In mice.	Um-Salama Science Journal.4 (4):597-602.	2007
13.	Pathological study on <i>S. xylosus</i> isolated from UTI patients.	AL-Nahrain University. 11(2) :123-130	. 2008
14.	Role of <i>Saphylococcus saprophyticus</i> peptidoglycan in liver and kidney dysfunctions.	J. AL-Nahrain University.12(4): 132-136	2009.
15.	The detection of the biofilm production by external fixators contaminating <i>Klebsiella pneumonia</i> .	Procceding of 3 rd scientific conference of the College of science , University of Baghdad , 24-26 March 2009.	2009.
16.	The role of protease produced by <i>Pseudomonas aeruginosa</i> in corneal ulceration.	Second Scientific Conference of Institute of Genetic Engineering and Biotechnology for Graduate Studies. Nov.4-5 / 2009	2009
17.	Extraction of raw cellular wall of <i>Enterobacter cloaca</i> and study of its toxicity.	Baghdad Science J. 7(1):341-346.	2010
18.	Pathogenecity and Enterotoxigenicity of Local Isolated <i>Yersinia enterocolitica</i> .	Livelihood and health Impacts of the Climate Change, Community Adaptation Strategies. P. 189-195.	2010
19.	study effects of Lipopolysaccharide of <i>Klebsiella oxytoca</i> in kidney of white mice	Procceding of 7 th scientific conference of the College of science , University of Mustansyria , 4-5/5/2011	2011
20.	Comparative Study between Methicillin-Resistant Coagulase Positive and Negative Staphylococci	Proceedings of the 3 rd Medical Conference of Medicine college / Babylon university. 19-20/10/2011	2011
21.	Isolation of <i>Burkholderia mallei</i> from Wound Infection and Patients with Study Their Virulence	Al-Kufa University J.for Biology 1 (1): 467-475	2011

22.	Extraction and Partial Purification Lipoteichoic Acid from <i>Enterococcus faecalis</i> Isolated from Different Local Clinical Specimens in Adhesion	J. AL-Nahrain University. Accepted for publication	2011
23.	The Role of Partial Purificated Lipoteichoic Acid from <i>Enterococcus faecalis</i> Isolated from Different Local Clinical Specimens	J. AL-Nahrain University. Vol.15(1):40-44	2012
24.	Extraction and Partial Purification for Fimbriae from <i>Proteus mirabilis</i> and Study Their Role in Adhesion to Uroepithlial Cells	Proceedings of the 3 rd Medical Conference of Medicine college / Babylon university. 19-20/10/2011	2011
25.	The Prophylactic Role of Lipopolysaccharide on its Corneal Cytopathic effect that caused by bacteria <i>Pseudomonas aeruginosa</i>	Proceedings of the 4th International Scientific Conference of Salahaddin University-Erbil Volume 2 of 4: 545-551	2011
26.	Comparison in pathogenicity of MRSE and MSSE by detect LD50 and histopathological effects	Proceedings of the 3 rd Medical Conference of Medicine college / Babylon university. 19-20/10/2011	2011
27.	Study the effect of some inhibitor factors on production of some virulence factors of <i>Pseudomonas aeruginosa</i> and their ability for adhesion to contact lenses.	Iraqi Journal of Science. Vol.53,no.1,p.25-29	2012
28.	Determination the titer antibodies against LPS extracted from <i>Pseudomonas aeruginosa</i> isolated from eye infection	J. of Biotechnology Researches center/ AL-Nahrain University. Vol.6,no.2	2012
29.	Characterization of enterotoxin produced by local isolate of <i>Yersinia enterocolitica</i> and study of the inhibitory effect of <i>Eruca sativa</i> on its activity	Iraqi Journal of Science. Vol.53,No.2 ,p.257-262	2012
30.	Extraction and Partial Purification of Lipopolysaccharide from <i>Klebsiella oxytoca</i> and study of its role in the Pathogenicity	Iraqi Journal of Science. Vol.53,No.2,p.271-278	2012

31.	Histopathological effect of <i>Burkholderia mallei</i> isolated from Patients with Wound Infection	Eng. And Technology Journal, University of Technology VOL31 NO 1 PP.1-14	2013
32.	Properties of pyocyanin produced by Carbencillin resistant mutants of <i>Pseudomonas aeruginosa</i>	Egypt. J. Exp. Biol. (Bot.), 8(1): 103 – 106	2012
33.	The effect of Subinhibitory Antibiotics Concentration (sub-MIC) on biofilm formation by Methicillin Resistance Staphylococci (using of antibiotics alone and in combination)	Egypt. J. Exp. Biol. (Bot.), 8(1): 109 – 119	2012
34.	The effects of <i>Aloe vera</i> gel, Sesame Oil and Camphor Oil on <i>Pseudomonas aeruginosa</i> isolated from burnt patient	Iraqi J.of Pharmaceutical Sciences, Vol.21, no.2, p.18-23	2012
35.	The prophylactic effect of partially purified UCA fimbriae of <i>Proteus mirabilis</i> on urinary tract infection in mice	Proceeding of 1st scientific conference of the College of science , University of Baghdad , 6-7/3/2012	2012
36.	A study on some virulence factors of coagulase negative staphylococci isolated from skin infection in sullaimaniya hospitals	proceeding of 1st scientific conference of the College of science , University of Baghdad , 6-7/3/2012	2012
37.	Comparative study between Methicillin resistant and Methicillin sensitive <i>Staphylococcus epidermidis</i>	Proceeding of 1st scientific conference of the College of science , University of Baghdad , 6-7/3/2012	2012
38.	Their ability of <i>Streptococcus mutans</i> to adhere and biofilm formation	Proceeding of 1st scientific conference of the College of science , University of Baghdad , 6-7/3/2012	2012
39.	Purification of glucan binding protein (GBPs) of <i>Streptococcus mutans</i> and study the effect of anti-GBP on biofilms formation	Proceeding of 1st scientific conference of the College of Medicin , University of Mousel ,18-19/4/2012	2012
40.	The Prophylactic Role of Lipopolysaccharide of <i>Pseudomonas aeruginosa</i> Against Corneal Infection	J. of Biotechnology Researches center/ AL-Nahrain University. Vol: 6 , No.1: 96-101	2012

41.	Antimicrobial effects of black tea (<i>Camellia sinensis</i>) on <i>Pseudomonas aeruginosa</i> isolated from eye infection	Iraqi Journal of Science. Vol 54.No.2.2013.Pp 255-265	2012
42.	Histopathological effects of <i>S. xylosus</i> peptidoglycan in comparison to <i>E. coli</i> lipopolysaccharide in the urinary tract of mice	Turk J Med Sci. 42 (Sup.1): 1278-1285	2012
43.	Effect of <i>Lactobacillus</i> spp. As probiotic on the lipid metabolism and body weight in rats.	Iraqi Journal of Science. Accepted for publication no: 681 at 26/2/2013	2013
44.	Extraction and purification of staphylolysin produced from <i>Pseudomonas aeruginosa</i>	Iraqi Journal of Science. Accepted for publication no:677 at 30/4/2013	2013
45.	Cytotoxicity of purified methionine γ - lyase produced by <i>Pseudomonas putida</i> on several cell lines	Iraqi Journal of Cancer and Medical Genetics . vol 6, no.1 p 72-75	2013
46.	Apoptotic Activity of methionine γ - lyase on several cancer cell lines	Iraqi Journal of Cancer and Medical Genetics . vol 6, no.1 p 33-36	2013
47.	Extraction and Partial Purification for Fimbriae from <i>Proteus mirabilis</i> and Study Their Role in Adhesion to Uroepithelial Cells	Basrah Journal of ScienceE vol32 B, no 2,p51-75.	2014
48.	Study of some physical and chemical proprieties of staphylolysin enzyme produced by <i>Pseudomonas aeruginosa</i>	Baghdad J. of Science. Vol 11,no2, p 819-828.,	2014
49.	Methicillin resistance and enterotoxigenicity of Staphylococci isolated from milk and white cheese in Iraq	Iraqi Journal of Science, 2014, Vol 55, No.1, pp:40-49	2014
50.	Isolation and identification of vancomycin resistant <i>Staphylococcus aureus</i>	Iraqi Journal of Science. Vol 55, No.3A, pp:994-998	2014

51.	Detection of van A gene of Vancomycin resistant <i>Staphylococcus aureus</i> by PCR technique	International Journal of Advanced Research (2014), Volume 2, Issue 7, 209-216	2014
52.	Isolation and identification of vancomycin resistant <i>Enterococcus faecalis</i>	Iraqi Journal of Science, 2014, Vol 55, No.4B, pp:1811-1816	2014
53.	Isolation and identification and treatment of vancomycin resistant <i>Staphylococcus epidermidis</i>	Iraqi Journal of Science. Vol 56, No.C1.p.701-707	2015
54.	Study the Effect of Purified Uricase From <i>Paeruginosa</i> on Hyperuricemia <i>In Vivo</i>	International Journal of Biological & Pharmaceutical Research. 2015; 6(6): 469-472.	2015
55.	Study the Effect of Probiotic Consumption On The IRAQI Human Body Weight And Lipid Profile	European Journal of Biology and Medical Science Research Vol.3, No. 2, pp.52-61, May 2015	2015
56.	Evaluation the Uricase Produced from Different Clinical isolates of <i>Pseudomonas aeruginosa</i> by Plate Assay Methods	World journal of experimental biosciences. Vol. 3, No. 1: 26-29	2015
57.	Comperative study : detection of coagulase production and their gene by PCR	the 3 rd Conference of education college / Karbala university	2015
58.	Isolation and Purification of CNF1 (Cytotoxic necrosis factor 1) produced from bacteria <i>Escherichia coli</i> and study its role against apoptosis <i>in vitro</i>	Iraqi Journal of Cancer and Medical Genetics, Volume 8 - Number 2	2015
59.	Production, Purification and Characterization of Uricase Produced by <i>Pseudomonas aeruginosa</i>	Iraqi Journal of Science, Vol 56, No.3B, pp: 2253-2263	2015
60.	Moleculer Study on Uricase encoding (<i>puuD</i>) Gene in <i>Paeruginosa</i> Uricase Producers Isolates	European Journal of Scientific Research.Vol. 131 No 3 April, pp.291 - 298	2015

61.	Detection the Virulence Factor (Cytotoxic necrosis factor1) Produce from Uropathogenic <i>Escherichia coli</i> Isolates	Iraqi Journal of Science, Vol 56, No.3A, pp: 1920-1924	2015
62.	Relationship between methicillin resistance and the presence of <i>femA</i> and <i>mecA</i> genes in coagulase positive and negative staphylococci	World Journal of Experimental Biosciences. Vol. 3, No. 2: 50-56.	2015
63.	The genotypic identification of colicins produced by clinical isolates of <i>Escherichia coli</i> in Iraq	World Journal of Experimental Biosciences. Vol. 3, No. 2: 94-99.	2015
64.	Inhibitory activity of colicin crude extract against different isolates of Enterobacteriaceae in both planktonic and biofilm state	Iraqi Journal of Biotechnology, Vol. 14, No. 2	2015
65.	Purification and physiochemical characterization of pyomelanin pigment produced from local <i>pseudomonas aeruginosa</i> isolates	World Journal of Pharmaceutical Research. Vol 4, Issue 10, 289-299.	2015
66.	Vancomycin resistance in <i>Staphylococcus epidermidis</i> Clinical isolates	World Journal of Pharmacy and Pharmaceutical Sciences .Volume 4, Issue 12, 1474-1483	2015
67.	Bacteriotherapy effect of probiotic in the lipid profile and proinflammatory markers in obese female	World Journal of Pharmacy and Pharmaceutical Sciences .Volume 5, Issue 6, 249-260	2016

68.	Cytotoxic Effect of Pyomelanin Pigment Produced from Local <i>Pseudomonas aeruginosa</i> Isolates on Different Cell Lines Using MTT Assay	Iraqi Journal of Biotechnology, Vol. 15, No. 1 , 46-52	2016
69.	Modulation of gut microbiota during probiotic-mediated lead to reduction of body weight in iraqi obese female.	World Journal of Pharmacy and Pharmaceutical Sciences .Volume 5, Issue 8, 51-57	2016
70.	Effect of probiotic consumption in the level of pep-tide yy, ghrelin hormone and body weight in iraqi obese female	World Journal of Pharmacy and Pharmaceutical Sciences .Volume 5, Issue 6, 242-248	2016
71.	Biofilm formation and susceptibility to itraconazole in <i>Candida albicans</i>	World Journal of Pharmacy and Pharmaceutical Sciences .Volume 5, Issue 8, 1704-1716	2016
72.	Isolation and identification of <i>candida spp.</i> From Different clinical specimens and study the virulence Factors	World Journal of Pharmacy and Pharmaceutical Sciences .Volume 5, Issue 7, 121-137	2016
73.	Isolation and Identification of Methicillin Resistance <i>Staphylococcus aureus</i> from Clinical Samples and their Drug Resistance Patterns	World Journal of Experimental Biosciences. Vol. 4, No. 2: 171-175.	2016

74.	Plasmid profiling and curing of methicillin-resistant <i>Staphylococcus epidermidis</i> (MRSE) and methicillinsensitive <i>Staphylococcus epidermidis</i> (MSSE) isolates	World Journal of Pharmacy and Pharmaceutical Sciences .Volume 6, Issue 3, 143-152	2017
75.	Patterns of Phenotypic and Genotypic Resistance to Macrolides, Lincosamides and Streptogramins Group of Antibiotics by Efflux Pump and Enzymatic Modification in Methicillin Resistant <i>Staphylococcus aureus</i>	Iraqi Journal of Science, Vol. 58, No.2B, pp: 803-814	2017
76	(Macrolides, Lincosamides and Streptogramins) and Vancomycin Resistance Phenotypes of <i>Staphylococcus aureus</i> Isolated from Clinical Samples by Using Vitek2 Compact System	Iraqi Journal of Science, Vol. 58, No.1C.	2017
77	Patterns of Antibiotic Resistance in <i>Staphylococcus aureus</i> Isolates and Detection the Heteroresistance to Vancomycin by Population analysis Method	J. of University of Anbar for pure science : Vol.11:NO.3: 2017	2017
78	Detection of <i>rmpA</i> and <i>magA</i> genes and hypermucoviscosity phenotype in <i>Klebsiella pneumoniae</i> isolated from water samples in compare with clinical isolates	Current Research in Microbiology and Biotechnology Vol. 6, No. 1 (2018): 1424-1430	2018
79	Distribution of K1and K2 serotypes of <i>Klebsiella pneumoniae</i> in water isolates in compare with clinical isolates	IOSR Journal of Pharmacy and Biological Sciences (IOSR-JPBS) Volume 13, Issue 1 Ver. I (Jan. – Feb. 2018), PP 91-95	2018

80	Study the Expression of <i>msrA</i> , <i>msrB</i> and <i>linA/linA'</i> genes in Presence of Some Antibiotics in Methicillin Resistance <i>Staphylococcus aureus</i>	<i>Iraqi Journal of Science</i> , 2018, Vol. 59, No.4A, pp: 1811-1825 DOI:10.24996/ij.s.2018.59.4A.6	2018
81	ASSESSMENT THE GENE EXPRESSION OF SIGMA FACTOR (RPOS) UNDER CEFTRIAZONE STRESS IN PATHOGENIC <i>ESCHERICHIA COLI</i>	<i>Biochem. Cell. Arch. Vol. 19, No. 1, pp. 1005-1008.</i>	2019
82	PREVALENCE OF DIARRHEAGENIC <i>ESCHERICHIA COLI</i> IN CHILDREN AND CHARACTERIZATION OF SOME VIRULENCE FACTORS FROM	<i>Biochem. Cell. Arch. Vol. 18, No. 2, pp. 2395-2399.</i>	2018
83	BIOSYNTHESIS AND OPTIMIZATION OF SILVER NANOPARTICLES FROM <i>PSEUDOMONAS AERUGINOSA</i>	<i>Biochem. Cell. Arch. Vol. 19, No. 1, pp. 295-302.</i>	2019