

Curriculum Vitae

Prof. Sahira Nsayef Muslim
Mustansiriyah University – College of Science
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Personal Summary:

City and Date of Birth (Baghdad, 1976)

Current appointment: professor in biotechnology at Department of Biology, and I have many researches and participate in a number of international conferences and also I am a member of Iraqi Society of Nanotechnology .

Education:

- Ph.D.:2003-2005 (from Mustansiriyah University)
- M.Sc:-1999-2000 (from Mustansiriyah University)
- B.Sc.:1994-1998(from Mustansiriyah University)

ACADEMIC HONORS AND AWARDS:

- A number of books Walker .

ACADEMIC /TEACHING EXPERIENCE:

- Education qualifying courses in teaching methods/ Education Collage .

COURSES TAUGHT:

Undergraduate	Graduate
1- Biotechnology	1- seminar
2- genetic engineering	2-Bioremediation
3- Microscopic techniques	3-microbial fermentation
4- Bioseparation techniques	4-Advanced Bioseparation

PROFESSIONAL AFFILIATIONS:

Chairman, Diversity Committee :

- 1- Member in Iraqi Biological Organization – Baghdad – Iraq.
- 2-Chairman in committee of internet.
- 3-Chairman in committee of supplement the text books.
- 4- Chairman in committee of characteristics the equipment and apparatus.
- 5- Member in Iraqi Society of Nanotechnology – Baghdad – Iraq.
- 6-Member in Science and engineering institute(SCIEI)-America .

7- Member in scientific Committee.

Publishing books and chapters

- 1- Enhancement of L-Asparaginase Production (2013) .Lambert Academic Publishing . ISBN : 978-3-659-50720-5.
- 2- Bioseparation techniques(2014).Createspace Independent Publishing Platform; 1 edition (February 1, 2014). ISBN-10: 1496129539 • ISBN-13: 978-1496129536
- 3- Detoxifying agents of zearalenone(2014).Lambert Academic Publishing . ISBN: 978-3-659-55171-0
- 5- Tannase as zearalenone's detoxificant(2015). Lambert Academic Publishing ISBN:978-3-659-68778-5.
- 6- Nutritional and Ecological Optimizations for Exo-Inulinase (2015). Production, printed by Schaltungsdienst Lange o. H.G., Berlin (Germany)
- 7- Heparinase and low molecular weight heparins as antitumor agents(2016). printed by Schaltungsdienst Lange o. H.G., Berlin (Germany)
- 8- Lectin as a booster for antibiotics activity(2016). printed by Schaltungsdienst Lange o. H.G., Berlin (Germany)
- 9- Extraction of fungal chitosan and its advanced applications, chapter in advances in biotechnology(2018).
- 10-Synthesis and comparison of nanoparticles conjugated tannase by feeding and pulses methods and using it as antibacterial agent as chapter in Research trends in multidisciplinary research, volume 5,(2019), AkiNik Publications ,New Delhi.
- 11-Banana peel mediated TiO₂ nanoparticles: a promising insecticidal and antibacterial agent as chapter in Advances in biotechnology and bioscience, volume 5,(2020), AkiNik Publications ,New Delhi.

Granted patent

- 1- Detoxification of zearalenone produced by *Fusarium graminearum* by purified tannase from *Citrobacter freundii*. Number: 4573, date: 2016/5/22
- 2- The low molecular weight heparins (LMWHs) and purified heparinase from *Paenibacillus polymyxa* acting as antitumor agents on RD tumor cell line. Number: 4376, date: 2015/11/22
- 3- Broad-spectrum biofilm and adhesion inhibition by levanase purified from *Enterobacter aerogenes*. Number: 4758, date: 2016/11/24
- 4- A new method for lectin extraction from *Klebsiella pneumonia* and using it as antibiofilm formation agent. Number: 5341, date: 2018/4/22
- 5- Synthesis and characterization of SiO₂ nanoparticles conjugated tannase and using it for enhancement antibacterial activity of tannase produced by *Serratia marcescens*. Number: 5241, date: 2018/2/18.
- 6- Biodiesel production by using of lipase produced by *Pseudomonas oryzae* as a biocatalyst for transesterification reaction of olive oil. Number: 6417, date: 2020/11/8.

PUBLICATIONS:

- **Papers.**
- 1- 2004). Antibiotics resistance and antimicrobial activity of ampicillin, augmentin and taboing against *Staphylococci* species isolated from wound infections. *Al-mustansiriya.J.Sci.*15(4):15-23.
- 2- 2005).Effect of antibiotics on the L-asparaginase purified from environmental *Serratia plymuthica*.*Al-mustansiriya.J.Sci.*16(1):1-11.
- 3- 2007).Effect of some materials and metal ions on the chitinase purified from environmental *Serratia plymuthica*. *Al-mustansiriya.J.Sci.*18(3):1-8.
- 4- 2009).Microbial contamination in the operating theatre: a study in a hospital in Baghdad. *East Mediterr Health J.* 15(1):219-23.
- 5- 2007).Purification and partial characterization of extracellular lipase from *Pseudomonas fluorescens*.*Al-mustansiriya.J.Sci.*18(3):45-61.
- 6- 2008). Purification and characterization of intracellular chromate reductase from *Pseudomonas putida* isolated from soil. *Al-mustansiriya.J.Sci.*19(2):14.
- 7- 2009). A novel biochemical study on carboxymethyl cellulase (endo-1,4- β -D-glucanase) produced by *Enterobacter cloacae* isolated from soil.2009. *Diala,Jour.*37:361-376.
- 8- 2010) Purification, characterization and antifungal activity of chitinase from *Serratia marcescens* isolated from fresh vegetables.2010.*IBN-AL-HAITHAM J.FOR PURE&APPL.SCI.*23(1):13-25.
- 9- 2013). A novel biochemical study on pectate lyase produced by *Erwinia chrysanthemi* isolated from spoilt potatoes infected with blackleg disease. *Al-mustansiriya.J.Sci.*24(1):23-35.
- 10- 2013).Detection the optimum conditions for alginate production by *Bacillus* sp. Isolated

from soil. Al-mustansiriya.J.Sci.24(1):19-28.

- 11- 2013).Purification of endo – 1,4- beta – xylanase from *Trichoderma reesei* and functional characterization of the produced enzyme. International of Journal Biochemistry and Biotechnology (IJBB). 9(1):87-99.
- 12- 2013).Comparative study between liquid state fermentation and solid state fermentation for production of endo- 1, 4- beta – xylanase by *Bacillus licheniformis*. Journal of American Arabic Academy for Sciences and Technology AMARABA.4(11): 131-146.
- 13- 2013).Isolation and Culture of *Acinetobacter baumannii* . World Journal of Pharmaceutical Research. 2(5):1-15.
- 14- 2014).Purification and characterization of exoinulinase from *Pseudomonas putida* isolated from agricultural waste materials. Diyala journal for pure science. 10(3):54-67.
- 15-.(2013). *In vitro* antimicrobial agents of fruit peels extract of *Punica granatum* L. and *Citrus sinensis* against many bacterial and fungal genera. International journal of current science, 9: 15-20.
- 16- (2013). Antimicrobial activity of crude and purified of *Pediococcus pentosaceus* bacteriocin. World Journal of Pharmaceutical Research , 3(1): 89-98.
- 17- 2014). Production, Purification and Characterization of a novel L-asparaginase from *Acinetobacter baumannii* with anticancerous activity. International Journal of Current Engineering and Technology, 4(1): 6-11.
- 18- 2014).Detection of optimal conditions for lectin productivity from *Acinetobacter baumannii* isolated from sputum samples. Al-mustansiriya.J.Sci.25(4):45-61.
- 19- (2014). Detection of the Optimal Conditions for Pectate lyase Productivity and Activity by *Erwinia chrysanthemi* Isolated from Spoilt Vegetables Infected with Soft Rotting Disease. Submit in 2014 SCIEI International Conference on Substantial Environmental Technologies (ICSET 2014), in Dubai.
- 20- (2014). Detection of the Optimal Conditions for Tannase Productivity and Activity by

Erwinia carotovora Isolated from Spoilt Vegetables Infected with Soft Rotting Disease. Submit in 2014 SCIEI International Conference on Substantial Environmental Technologies (ICSET 2014), in Dubai.

- 21-(2014). Effect Of Plant Extracted *Moringa Oleifera* Lam. On Some Isolated Pathogens From Mouth And Teeth. World Journal Of Pharmaceutical Research. 3(10):17-22.
- 22- 2014). Cytotoxic effect of the purified inulinase from locally Isolate *Staphylococcus aureus* on Hep-2 cancer cell line *In vitro*. Journal of Biology, Agriculture and Healthcare. 4(25):1-7.
- 23- 2015). Broad-spectrum biofilm and adhesion inhibition by levanase purified from *Enterobacter aerogenes*. Al-Mustansiriyah Journal of Science, 26(2):1-8.
- 24- (2015). Detoxification of zearalenone produced by *Fusarium graminearum* by purified tannase from *Citrobacter freundii*. Greener Journal of Biochemistry and Biotechnology.2(1):001-008.
- 25- (2015). Improving of antibacterial activity for antibiotics by lectin purified and characterized from *Acinetobacter baumannii*. Iraqi Journal of Biotechnology. Iraqi Journal of Biotechnology, 2015, Vol. 14, No. 1 , 9-22.
- 26- (2015). The purified heparinase from *Paenibacillus polymyxa* and low molecular weight heparins (LMWHs) produced by enzymatic cleavage by heparinase acting as antitumor agents on RD tumor cell line. International Journal of Development and Sustainability.4(1): Pages 92-102.
- 27- 2015).Improving the Antibacterial Activity of Ceftazidime by Inulinase Purified from *Staphylococcus Aureus*. Journal of Biology, Agriculture and Healthcare,5(8):84-89.
- 28-(2015). cytotoxic effect of the purified L-asparaginase from locally isolate *psudomonas putida* on hep-2 tumor cell line. world journal of pharmacy and pharmaceutical sciences.4(4):1760-1769.
- 29- (2015).Detection of the optimal conditions for inulinase productivity and activity by *Acinetobacter baumannii* isolated from agricultural rhizosphere soil. Int'l Journal of Advances in Chemical Engg., & Biological Sciences (IJACEBS) Vol. 2, Issue 1. ISSN 2349-1507 EISSN 2349-1515.

- 30- (2015). Enhancement of the Activity and Stability of L-Asparaginase Food Additive Purified from *Acinetobacter Baumannii*s Anticarcinogenic in Processed Foods. Int'l Journal of Advances in Chemical Engg., & Biological Sciences (IJACEBS) Vol. 2, Issue 1(2015) ISSN 2349-1507 EISSN 2349-1515.
- 31- *ToxA* gene as chromosomal marker for rapid identification of otitis media *Pseudomonas a eruginosa*. Int'l Journal of Advances in Chemical Engg., & Biological Sciences (IJACEBS) Vol. 2, Issue 1(2015) ISSN 2349-1507 EISSN 2349-1515
- 32- 2016). Extraction and purification of L-asparaginase produced by *Acinetobacter baumannii* and their antibiofilm activity against some pathogenic bacteria. 6th International Scientific Conference on Applied Sciences and Engineering, 26-27 January, 2016 at Singapore.
- 33- 2016). Extraction and purification of L-asparaginase produced by *Acinetobacter baumannii* and their antibiofilm activity against some pathogenic bacteria. The International Journal of Biotechnology, 5(1): 7-14.America
- 34- Biosafety of handling with some pathogenic bacteria(2016). The 1st National CB Security Coordination Conference,16-17 April at Iraq.
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- 35- Biosafety of handling with some pathogenic bacteria(2016). The 1st National CB Security Coordination Conference,16-17 April at Iraq. Iraqi National Journal of Chemistry; 16 (2):113-122.
- 36- 2016). Extraction of Chitosan from *Trichoderma reesei* by Biological Methods and Using It as Antibiofilm Formation Agent. 66 th international conference on environmental and natural science(ICENS) on 15th-16th August, 2016 at Dubai, UAE.
- 37- 2016). Improving of antibacterial activity for antibiotics by extracted chitosan from *Aspergillus flavus*. 66 th international conference on environmental and natural science(ICENS) on 15th-16th August, 2016 at Dubai, UAE.
- 38- (2016). Chitosanase purified from bacterial isolate *Bacillus licheniformis* of ruined vegetables displays broad-spectrum biofilm inhibition. *Microbial Pathogenesis*. 100. 257-262.

- 39- 2016). Antibiofilm and antiadhesive properties of pectinase purified from *Pseudomonas stutzeri* isolated from spoiled orange. *Advances in Environmental Biology*, 10(11) November 2016, Pages: 91-98.
- 40- Synthesis and characterization of SiO₂ nanoparticles conjugated tannase and using it for enhancement antibacterial activity of tannase produced by *Serratia marcescens*, *Microbial pathogenesis* 110:484-493.2017.
- 41- A novel genetic determination of a lectin gene in Iraqi *Acinetobacter baumannii* isolates and use of purified lectin as an antibiofilm agent, *J. AOAC International*, V(101):1-8.(2018).
- 42- Production and partial purification of tannase from *Serratia marcescens* isolated from different sources, *AL-Mustansiriyah J. of Science* V28(3):109-121.(2017).
- 43- Screening, nutritional optimization and purification for phytase produced by *Enterobacter aerogenes* and its role in enhancement of hydrocarbons degradation and biofilm inhibition, *Microbial pathogenesis*, 115:150-167.(2018).
- 44- Purification of levanase from *Enterobacter aerogenes* and using it as a prebiotic and antibacterial agent, *I.J.D.D.T.*, 9(3):387-393.(2019).
- 45- Enhancement the antimicrobial activity of disinfectants by the purified lipase from *coronobacter dublinensis*. *Indian J. Forensic Med. & Toxicology*. 14(1):332-338.(2019)
- 46- Combination of gold nanoparticles conjugated lectin and using it for development the antibacterial activity of lectin purified from *Acinetobacter baumannii*. *Indian J. Public Health Research & Development*, 10(10):3363-3342.(2019).
- 47- Screening, purification of tannase produced from *Klesiella pneumonia* Iraqi isolates and its role in enhancement of biofilm inhibition formed by *Enterobacteriaceae* isolates. *Ann. Trop. Med. & Public Health*, 23(56):630-640.(2020).
- 48- Application strategies for using fungi and algae as bioremediators: A review.

Plant Archives, 20(supplement 1):788-792.(2020)

- 49-Screening, extraction and purification for tannase produced from Iraqi *Klesiella pneumonia* isolates and molecular detection of *tanA* gene. EurAsian J. Biosci.,14:259-263.(2020).
- 50- A novel culture medium using lettuce plant (*Lactuca sativa*) for detection of pullulanase production by *Paenibacillus macerans* isolated from agricultural wastes. J. Physics: Conference series(2021).
- 51- Antibiofilm and anti-virulence effects of silica oxide nanoparticle conjugation of lectin purified from *Pseudomonas aeruginosa*. IET Nanobiotechnology.1-11.(2021).
- 52- Antimicrobial and antibiofilm properties for chitosan extracted by biological methods. Annals R.S.C.B.5(4):2050-2057.(2021).
- 53- Production of FOS by purified inulinase from *Klesiella pneumonia* and using it as a prebiotic agent. Internat. J. Drug Deliv. Technol., 11 (1): 46-51. (2021).
- 54- Immunomodulating activity of inulinase reaction product (fructo-oligosaccharide (FOS) produced by *Klesiella pneumonia*. Biochem. & Cullul. Archives, 21(1): 945-953. (2021).
- 55- Antimicrobial and Antibiofilm Properties for Chitosan Extracted by Biological Methods Running title: Antimicrobial and Antibiofilm for Chitosan Extract. Annals of R.S.C.B., 25(4): 2050 – 2057.
- 56- Detection of Disinfectant property of purified Amylopullulanase from *Citrobacter freundii* SW. Research J. Pharm. and Tech. 15(2): 847-52. (2022).
- 57- Efficacy of brown alga (*Ascophyllum nodosum*) extract to inhibit urinary catheters biofilm formed by several pathogens. The 5th Samarra International Scientific Conference (SISC) will be held in University of Samarra - College of Education, Iraq, with Cooperation on 23-24 February, (2022).
- 58- Screening and ecological optimization of tannase produced from *Lactobacillus* spp. isolates from breastfeeding infant stool. International Journal Of Special Education, 37(3): 13540 -55. (2022).
- 59- Detection and purification of tannase produced by clinical isolates of *Lactobacillus* spp.

PROFESSIONAL DEVELOPMENT

- **Conferences.**

- 1- International Scientific conference/*Al-Kindy* college of medicine- *university* of Baghdad (Frequency of bacteria isolated from blood cultures of children at a children hospital in Baghdad and study of their antimicrobial susceptibilities)
- 2- Seventh National Congress of the Environment and Natural Resources, Basra (Analysis of Tigris water pollution in several areas of Baghdad)
- 3- *AL-Kindy* college of medicine^{3rd} International Scientific conference
- 4- ^{3rd} International Scientific conference of medical and health specialties
- 5- The first national CB security coordination conference
- 6- 9th Scientific Conference of the College of Medicine, Al-Nahrain University (Prevalence of Clindamycin Resistance in Clindamycin-Susceptible, Erythromycin-Resistant Coagulase-negative staphylococci (CNS) isolated from children's blood cultures.
- 7- The first International Conference of Biological Sciences.

- **Workshops.**

- 1- Entitled (bio, chemical and nuclear radiation, in university laboratories and safety) Security.
- 2- Diabetes and its effect on public health .
- 3- Knowledge Day workshop .
- 4- Alternative and modern methods in diseases treatment .

- **Certifications:** A number of certificates .

السيرة الذاتية

اسم الشخص الكامل : ساهرة نصيف مسلم

الجامعة المستنصرية – كلية العلوم

Mobile: +9647703227136

Email: s2008mk@yahoo.com ; mnt2000ther@gmail.com ; stsn@uomustansiriyah.edu.iq

ملخص تعريفي:

- تدريسية في الجامعة المستنصرية / كلية العلوم / قسم علوم الحياة .
- التولد: سنة 1976
- الحالة الاجتماعية: متزوجة و أم لاربعة اولاد

- التحصيل العلمي :

- بكالوريوس : إحياء مجهرية – علوم الحياة –الجامعة المستنصرية 1994-1998
- ماجستير : احياء مجهرية _ علوم الحياة _ الجامعة المستنصرية 1999-2000
- الدكتوراه : احياء مجهرية _البايولوجي الجزيئي _الجامعة المستنصرية 2003-2005

التعيين والترقيات:

- * أول تعيين كمدرس مساعد 2002
- *الترقية لمرتبة مدرس في 2005
- *الترقية لمرتبة أستاذ مساعد في 2010
- *الترقية لمرتبة الاستاذية في 2014

الجوائز و التكريم:

** كتب الشكر والتقدير بلغت اكثر من عشرين كتاب من قبل وزير التعليم العالي والبحث العلمي, عمادة كلية العلوم و رئاسة الجامعة المستنصرية , جامعة بغداد, و جامعة بابل و جامعة النهرين

الخبرة الأكاديمية والتدريس:

تدريس طلبة دراسات أولية لمراحل بدأ من 2000 والدراسات العليا بدأ من سنة 2010 لغاية الآن والاشراف على طلبة الدراسات الاولية والعليا.

المقررات الدراسية التي تم تدريسها:

الدراسات الأولية	الدراسات العليا
الهندسة الوراثية	الفصل الحيوي (دكتوراه)
التطور والتنوع	وماجستير
تقنيات ميكروبية	انزيمات ميكروبية (دكتوراه)
التقانة الاحيائية	ايض حيوي (دكتوراه)
الفصل الحيوي	اصلاح حيوي (دكتوراه)
	تخميرات ميكروبية (دكتوراه)
	منهج بحث (ماجستير)

الكتب والفصول المنشورة

- 1 Enhancement of L-Asparaginase Production (2013) .Lambert Academic Publishing .ISBN : 978-3-659-50720-5
- 2 Bioseparation techniques(2014).Createspace Independent Publishing Platform; 1 edition (February 1, 2014). ISBN-10: 1496129539 • ISBN-13: 978-1496129536
- 3 -Detoxifying agents of zearalenone(2014).Lambert Academic Publishing . ISBN: 978-3-659-55171-0
- 1 -Tannase as zearalenone's detoxificant(2015). Lambert Academic Publishing ISBN:978-3-659-68778-5
- 2 Nutritional and Ecological Optimizations for Exo-Inulinase (2015). Production. printed (by Schaltungsdienst Lange o. H.G., Berlin (Germany
- 3 Heparinase and low molecular weight heparins as antitumor agents(2016). printed by (Schaltungsdienst Lange o. H.G., Berlin (Germany
- 4 Lectin as a booster for antibiotics activity(2016). printed by Schaltungsdienst Lange (o. H.G., Berlin (Germany
- 5 Extraction of fungal chitosan and its advanced applications, chapter in advances in .(biotechnology(2018
- 6 Synthesis and comparison of nanoparticles conjugated tannase by feeding and pulses methods and using it as antibacterial agent as chapter in Research trends in .multidisciplinary research, volume 5,(2019), AkiNik Publications ,New Delhi
- 7 Banana peel mediated TiO₂ nanoparticles: a promising insecticidal and antibacterial ,(agent as chapter in Advances in biotechnology and bioscience, volume 5,(2020 .AkiNik Publications ,New Delhi

براءات الاختراع

- 1 Detoxification of zearalenone produced by *Fusarium graminearum* by purified tannase from *Citrobacter freundii*. Number:4573 , date: 2016/5/22
- 2 The low molecular weight heparins (LMWHs) and purified heparinase from *Paenibacillus polymyxa* acting as antitumor agents on RD tumor cell line. Number date: 2015/11/22 ,4376
- 3 Broad-spectrum biofilm and adhesion inhibition by levanase purified from *Enterobacter aerogenes*. Number: 4758, date: 2016/11/24
- 4 A new method for lectin extraction from *Klesiella pneumonia* and using it as antibiofilm formation agent. Number: 5341, date: 2018/4/22
- 5 Synthesis and characterization of SiO₂ nanoparticles conjugated tannase and using it .for enhancement antibacterial activity of tannase produced by *Serratia marcescens* .Number: 5241, date: 2018/2/18
- 6 Biodiesel production by using of lipase produced by *Pseudomonas oryzihabitans* :as a biocatalyst for transesterification reaction of olive oil. Number: 6417, date .2020/11/8

الانتساب المهني و مهام اخرى:

تولي عضوية العديد من اللجان الخارجية:

عضوية منظمة البايوجيين العراقية

عضو جمعية تقنية النانو العراقية

عضو لجنة معهد الهندسة والعلوم/ امريكا

تولي عضوية العديد من اللجان في قسم علوم الحياه وكلية العلوم:

عضو اللجنة العلمية

عضو لجنة الدراسات العليا

عضو لجنة تحديث مناهج العليا

عضو لجنة مطابقة المواصفات الفنية

عضو لجنة العلاقات والإعلام

عضو لجنة الانترنت

عضو لجنة تحديث مناهج الدراسات الاولية

عضو اللجنة الوزارية لاستحداث دراسة ماجستير في جامعة دبالى

عضو اللجنة الوزارية لتقييم رسائل واطاريج المبتعثين

المنشورات العلمية:

1- 2004). Antibiotics resistance and antimicrobial activity of ampictam, augmentin and taboing against *Staphylococci* species isolated from wound infections. Al-mustansiriya.J.Sci.15(4):15-23.

2- 2005).Effect of antibiotics on the L-asparaginase purified from environmental *Serratia plymuthica*.Al-mustansiriya.J.Sci.16(1):1-11.

3- 2007).Effect of some materials and metal ions on the chitinase purified from environmental *Serratia*

plymuthica. Al-mustansiriya.J.Sci.18(3):1-8.

4- 2009).Microbial contamination in the operating theatre: a study in a hospital in Baghdad. East Mediterr Health J. 15(1):219-23.

5- 2007).Purification and partial characterization of extracellular lipase from *Pseudomonas fluorescens* .Al-mustansiriya.J.Sci.18(3):45-61.

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13- 2013).Isolation and Culture of *Acinetobacter baumannii* . World Journal of Pharmaceutical Research. 2(5):1-15.

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- 15-(2013). *In vitro* antimicrobial agents of fruit peels extract of *Punica granatum* L. and *Citrus sinensis* against many bacterial and fungal genera. International journal of current science, 9: 15-20.
- 16- (2013). Antimicrobial activity of crude and purified of *Pediococcus pentosaceus* bacteriocin. World Journal of Pharmaceutical Research, 3(1): 89-98.
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- 20- (2014). Detection of the Optimal Conditions for Tannase Productivity and Activity by *Erwinia carotovora* Isolated from Spoilt Vegetables Infected with Soft Rotting Disease. Submit in 2014 SCIEI International Conference on Substantial Environmental Technologies (ICSET 2014), in Dubai.
- 21-(2014). Effect Of Plant Extracted *Moringa Oleifera* Lam. On Some Isolated Pathogens From Mouth And Teeth. World Journal Of Pharmaceutical Research. 3(10):17-22.
- 22- 2014). Cytotoxic effect of the purified inulinase from locally Isolate *Staphylococcus aureus* on Hep-2 cancer cell line *In vitro*. Journal of Biology, Agriculture and Healthcare. 4(25):1-7.
- 23- 2015). Broad-spectrum biofilm and adhesion inhibition by levanase purified from *Enterobacter aerogenes*. Al-Mustansiriyah Journal of Science, 26(2):1-8.
- 24- (2015). Detoxification of zearalenone produced by *Fusarium graminearum* by purified tannase from *Citrobacter freundii*. Greener Journal of Biochemistry and Biotechnology.2(1):001-008.
- 25- (2015). Improving of antibacterial activity for antibiotics by lectin purified and characterized from *Acinetobacter baumannii*. Iraqi Journal of Biotechnology. Iraqi Journal of Biotechnology, 2015, Vol. 14, No. 1, 9-22.
- 26- (2015). The purified heparinase from *Paenibacillus polymyxa* and low molecular weight heparins (LMWHs) produced by enzymatic cleavage by heparinase acting as antitumor agents on RD tumor cell line. International Journal of Development and Sustainability.4(1): Pages 92-102.

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المؤتمرات

1- المؤتمر العلمي الدولي/كلية طب الكندي-جامعة بغداد (تواتر البكتيريا المعزولة من

مزارع دم الاطفال في مستشفى الاطفال في بغداد ودراسة حساسيتها للمضادات
الميكروبية)

2- المؤتمر الوطني السابع للبيئة والموارد الطبيعية البصرة (تحليل تلوث مياه نهر
دجلة في عدة مناطق من بغداد)

3- كلية طب الكندي المؤتمر العلمي الدولي الثالث

4- المؤتمر العلمي الدولي الثالث للتخصصات الطبية والصحية CB

5- المؤتمر الوطني الأول للتنسيق الأمني

6- المؤتمر العلمي التاسع لكلية الطب جامعة النهرين (انتشار مقاومة الكليندامايسين
في المكورات العنقودية المقاومة للكليندامايسين والمقاومة للاريثروميسين سلبية
التخثر (CNS) المعزولة من مزارع دم الأطفال.

7- المؤتمر الدولي الأول للعلوم البيولوجية

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تطوير المهارات:

- حضور ومشاركته في عدد كبير من الندوات العلميه والتثقيفية والمؤتمرات بدا من 2005 ولغاية الوقت الحالي كالدورات الخارجية والدورات الافتراضية المقامة من قبل منظمة الصحة العالمية .
- دورة كفاءة استخدام الحاسوب الدولية (وورد ، إكسل ، باور بوينت) (العراق ، 2011)
- حضور العديد من المؤتمرات المحلية والمشاركة ببحوث (اكثر من 10) في مختلف مجالات الأحياء والأحياء الدقيقة والمؤتمرات الدولية في تركيا ودبي واسبانيا
- المشاركة في العديد من الدورات التطويرية المنظمة من قبل قسم علوم الحياة وعمادة كلية العلوم /الجامعة المستنصرية