

Dr. Khalid Jaber Kadhum Luti



The University of Baghdad
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PERSONAL INFORMATION:

- Date of Birth: 19/12/1970
- Gender: Male
- Marital Status: Married
- Nationality: Iraqi

EDUCATION

- **2008-2011: PhD Biotechnology**

The University of Manchester, School of Chemical Engineering and analytical science, Manchester, UK

Thesis: 'Study of *Streptomyces coelicolor* metabolism and physiology as a result of interaction with other microorganisms'

- **2000 – 2003: M.Sc. in Biotechnology**

The University of Baghdad, College of Science, Biotechnology Department, Baghdad, Iraq

Thesis: 'Characterization of β - galactosidase produced from thermophilic fungi by solid state fermentation'

- **1988 – 1992: B.Sc. in Biology (Microbiology)** Ranked 14 of 150 students.

The University of Baghdad, College of Science, Baghdad, Iraq

PROFESSIONAL EXPERIENCE

- 2014- present: Assistant Professor, The University of Baghdad, College of Science, Biotechnology Department, Baghdad, Iraq
- 2011- 2014: Lecturer, The University of Baghdad, College of Science, Biotechnology

Department, Baghdad, Iraq

- 2005-2011 : Teaching assistant, The University of Baghdad, College of Science, Biotechnology Department, Baghdad, Iraq
- 1993-2005: Researcher, Ibn- Albetar research centre, Ministry of Industry, Baghdad, Iraq.

RESEARCH INTEREST

- Biotechnology
- Fermentation technology and Bioreactors.
- Biotechnology of antibiotics
- Industrial microbiology: induction and improvement of microbial products.
- Microbial communication and quorum sensing and its application in industrial microbiology

SKILLS

- **Research and practical experience:** conduct research in the field of industrial biotechnology and microbiology
- **Teaching:** provide lectures and training sessions to the students.
- **Language:** fluent in Arabic and English
- **Computer knowledge:** Windows, Ms Office

PUBLICATIONS

1. Sura Jasem Mohammed; Khalid Jaber Kadhum Luti (2019) A kinetic Model for Prodigiosin Production By *Serratia marcescens* As a Bio-colorant In Bioreactor. The 2nd International Conference on Materials Engineering and Science.
2. Khalid Jaber Kadhum Luti; Marwa Shaker Mahmood; Reem Walid Yonis (2019) Interspecies interactions induced pigment production from non-producing isolate of *Streptomyces* MR24 in a co-culture with *Bacillus subtilis*. Iraqi journal of biotechnology, April, Vol. 18, No. 1, 90-98.
3. Reem W. Yonis, Khalid J.K. Luti, Ghazi M Aziz (2019) An application of response surface methodology for optimizing the production of chitin deacetylase enzyme by *Aspergillus flavus*. Iraqi Journal of Science. 60(6): 1206-1220.
4. Reem W. Yonis, Khalid J.K. Luti, Ghazi M Aziz (2019) STATISTICAL OPTIMIZATION OF CHITIN BIOCONVERSION TO PRODUCE AN EFFECTIVE CHITOSAN IN SOLID STATE FERMENTATION BY *Aspergillus flavus*. The iraqi journal of agricultural sciences. 50(3): 916-927.

5. Noor AL Huda Dyae, Khalid Jaber Kadhum Luti (2019) Classical and statistical optimization by response surface methodology for enhancing biomass and bacteriocin production by *Lactobacillus plantarum*. Iraqi journal of science. 60(3): 494-508.
6. Khalid Jaber Kadhum Luti (2018). Mixture Design of Experiments for the Optimization of Carbon Source for Promoting Undecylprodigiosin and Actinorhodin Production. J Pure Appl Microbiol, **12(4)**, 1783-1793.
7. Sura Jasem Mohammed, Khalid Jaber Kadhum Luti, Khalid waleed Hameed (2018) Classical and statistical optimization of medium composition for promoting prodigiosin produced by local isolate of *Serratia marcescens*. Al-Khawarizmi Engineering Journal. Vol. 14, No. 4, December: 92- 102.
8. Bayan Shakir Mahmood AL-Saeedi, Khalid Jaber Kadhum Luti (2018) Bacteriocin from *Streptococcus salivarius* optimized statistically by response surface methodology active against different clinical oral pathogenic Streptococci. Iraqi Journal of Science, Vol.59, No.1C, pp: 463-475.
9. Khalid J.K. Luti , Reem W. Yonis, Samer T. Mahmoud (2018) An Application of Solid State Fermentation and Elicitation with Some Microbial Cells for the Enhancement of Prodigiosin Production by *Serratia marcescens*. Al-Nahrain university journal, Vol.21 (2), June,pp.98-105
10. Fouad Najm Abd, Khalid Jaber Kadhum Luti (2017) Detection, purification and characterization of a bacteriocin produced by *Bacillus subtilis* NK16 exhibits a significant antimicrobial activity against clinical *Staphylococcus* spp isolates. Journal of Baghdad for Science,14(3), 2017.
11. Fouad Najm Abd, Khalid Jaber Kadhum Luti (2016) Improvement of Bacteriocin Production by *Bacillus subtilis* NK16 via Elicitation with Prokaryotic and Eukaryotic Microbial Cells. Iraqi Journal of Biotechnology, 2016, Vol. 15, No. 2 , 59-73
12. Ferda Mavituna; Khalid Jaber K Luti; Lixing Gu (2016) In Search of the E. coli Compounds that Change the Antibiotic Production Pattern of *Streptomyces coelicolor* During Inter-species Interaction. Enzyme and Microbial technology. 90: 45-52.
13. Khalid Jaber Kadhum Luti (2015) The role of interspecies interactions in the antibiotic production: A potential approach for producing more effective antibiotics. In the Microbiology Book Series 5 titled "*The Battle Against Microbial Pathogens: Basic Science, Technological Advances and Educational Programs*". FORMATEX RESEARCH CENTER, Zurbaran, Spain.
14. Samer Thamir Mahmoud, Khalid Jaber Kadhum Luti and Reem waleed Yonis (2015) Enhancement of prodigiosin production by *Serratia marcescens* S23 via introducing microbial elicitor cells into culture medium. Iraqi Journal of Science. 56, 3A:1938-1951.

15. Khalid Jaber Kadhum Luti and Reem waleed Yonis (2014) An induction of undecylprodigiosin production from *Streptomyces coelicolor* by elicitation with microbial cells using solid state fermentation. Iraqi Journal of Science.55, No.4A: 1553-1562.
16. Khalid Jaber Kadhum Luti and Reem waleed Yonis (2013) Elicitation of *Pseudomonas aeruginosa* with live and dead microbial cells enhances phenazine production. Romanian Biotechnological Letters. 18, No. 6, 2013.
17. Khalid Jaber; Ghazi M Aziz and Mohammed Omer (2013) Purification and properties of β -galactosidase from a thermophilic fungus *Rhizomucor pusillus* IB8. Iraqi Journal of science. 54 (2): 307 – 315.
18. Khalid Jaber Kadhum Luti (2012) improvement of antibiotic production via exploiting spent culture supernatant in a bioreactor. International Journal for science and technology 7(2): 81-89.
19. Khalid Jaber Kadhum Luti and Ferda Mavituna (2011) *Streptomyces coelicolor* increases the production of undecylprodigiosin when interacted with *Bacillus subtilis*. Biotechnol. Lett 33:113-118.
20. Khalid Jaber Kadhum Luti and Ferda Mavituna (2011) Elicitation of *Streptomyces coelicolor* with *E. coli* in a bioreactor enhances undecylprodigiosin production. Biochemical Engineering Journal 53,281–285.
21. Khalid Jaber Kadhum Luti and Ferda Mavituna (2011) Elicitation of *Streptomyces coelicolor* with dead cells of *Bacillus subtilis* and *Staphylococcus aureus* in a bioreactor increases production of undecylprodigiosin. Appl. Microbiol. Biotechnol. 90:461-466.
22. Khalid Jaber Kadhum Luti and Ferda Mavituna (2010) Inter-species interactions modifies antibiotic production pattern in *Streptomyces coelicolor*. International conference on antimicrobial research (ICAR2010) Valladolid, Spain at 3-5 November 2010 (Abstract).

23. خالد جابر الزويني وغازي منعم عزيز ومحمد عمر محي الدين (2006) تعيين الظروف المثلى لانتاج انزيم – كالاكتوسيديز من عزله محليه الألفه للحراره العاليه باستخدام تخمرات الحاله الصلبه. مجلة ابحاث التقانه الحيويه. المجلد الثامن (العدد الثاني) 2006.

CONFERENCES, WORKSHOPS AND COURSES

- (2014) Resource person at the second workshop on Fermentation technology and bioreactors organized by Department of biotechnology, College of Science, University of Baghdad.
- (2013): Resource person at the first workshop on Fermentation technology and bioreactors organized by Department of biotechnology, College of Science, University of Baghdad.
- (2010): International conference on antimicrobial research (ICAR2010). 3-5 November. Valladolid, Spain (oral presentation).

- (2010) Multi-scale Modeling for Biological Systems (workshop). July 2010. The University of Stirling Stirling / Scotland, United Kingdom.
- (2009) Graduate teaching assistant training (workshop). The University of Manchester/ UK.
- (2008): Speed PhD workshop, The University of Manchester/ UK.
- (2007): English language course, Gateway programme: 17 September – 14 December 2007. The University of Manchester/ UK.

Member of Editorial board

- Editorial board member. Iraqi journal of science. University of Baghdad. Baghdad. Iraq.
- Reviewer committee member: International Centre of Excellence in Chemical, Agricultural and Biological Sciences.
- Editorial Member: International Journal of Microbiology and Biotechnology – Science PG
- Editorial Member: International Journal of Microbiology and Bioinformatics

Scientific Board and membership

- International Institute of Chemical, Biological & Environmental Engineering (IICBEE)