

Curriculum Vitae of Dr.Wala'a Shawkat Ali

Full name: Wala'a Shawkat Ali
Specialization: Major; Microbiology
Minor; Microbial Biotechnology
Position: Assistant Professor
Scientific Degree: Ph.D.
Work Address: Department of Biology, College of Science, University of Baghdad
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Scientific Certification:

- IRAQ Health Security Stewards Fellowship, **2019**
- Ph.D. degree in Microbiology: **2010**, Department of Biology, College of Science, University of Baghdad, Iraq. (Ph.D. thesis: Production, purification and characterization of plantaricin from local strains of *Lactobacillus plantarum*)
- M.Sc. degree in Microbiology: **2002**, Department of Biology, College of Science, Al-Mustansiriya University, Iraq.(M.Sc. thesis: Effect of lactic acid bacteria in growth and sporulation of some medical fungi)
- B.Sc. degree: **1996**, Department of Biology, College of Science, Al-Mustansiriya University, Iraq.

Career:

- 2016-present Assistant Professor at Department of Biology, College of Science, University of Baghdad
- 2015-2016 Lecturer at Department of Biology, College of Science, University of Baghdad
- 2010-2015 Lecturer at Department of Biology, College of Science, Al-Mustansiriya University
- 2002-2010 Assistant lecturer at Department of Biology, College of Science, Al-Mustansiriya University
- 1996-2002 Lab. Assistant at Department of Biology, College of Science, Al-Mustansiriya University

Teaching experiences:

- Bacteriology, antibiotics, medical fungi, immunology, microbial biotechnology, microbiology, molecular biology, pathological analyses, biotechnology and genetic engineering, pathogenic bacteria, food microbiology, soil and aquatic microbiology, probiotics.

Field of Interest:

- Probiotics, lactic acid bacteria, bacteriocins, microbial biotechnology, food microbiology, food safety, fermentation technology, microbial products, biosafety and biosecurity.

Some training courses and workshops:

Id	Title	Year	Place	Type of Participation
1	Second morning qualifying course for postgraduate students	1999	Computer center, Al-Mustansiriya University	trainee
2	Seventy-second educational qualification course	2002	College of Education, Al-Mustansiriya University	trainee
3	Eighth qualifying course for computer education	2004	Computer center, Al-Mustansiriya University	trainee
4	Genetic engineering techniques	2005	Medical Research Center, Al-Nahrain University	trainee
5	IC3	2010	College of Science, Al-Mustansiriya University	trainee
6	Purification of water and raw materials by nano technique	2012	Nanotechnology and Advanced Materials Research Center, University of Technology	trainee
7	Real Time PCR and it's applications	2012	College of Science, University of Baghdad	trainee
8	PCR technique	2013	College of Science, Al-Mustansiriya University	trainee
9	Specialized technique in ELISA and serological tests	2013	College of Science, Al-Mustansiriya University	trainee
10	Primer designing	2014	College of Science, Al-Mustansiriya University	trainee
11	Alternative and modern means in the treatment of diseases	2016	College of Science for Women, University of Baghdad	organizer and instructor
12	Biosafety training course (CRDF)	2016	College of Science, University of Baghdad	trainee
13	Conservation of the Tigris and Euphrates basins from pollution	2016	College of Science for Women, University of Baghdad	poster
14	Applications of light in the field of forensic science and evidence	2016	Center for DNA Research and Training, Al-Nahrain University	poster
15	Bacterial Antimicrobial Peptides	2016	College of Science, University of Baghdad	organizer and instructor
16	The most common microbial infections in Baghdad	2017	College of Science, University of Baghdad	organizer
17	Bioplastic	2017	College of Science, University of Baghdad	organizer and instructor
18	Cholera epidemic, transmission methods and prevention techniques	2018	College of Science, University of Baghdad	organizer
19	Bacteriocin and its role in treatment	2018	College of Science, University of Baghdad	organizer and instructor
20	Applications of ELISA in Biochemistry	2018	College of Science, University of Baghdad	trainee
21	Probiotics	2018	College of Science,	organizer and

			University of Baghdad	instructor
22	Biofilm and methods of investigation	2018	College of Science, University of Baghdad	trainee
23	The use of nanotechnology in the medical aspect	2018	Continuing education center, University of Baghdad	instructor
24	Nutritional supplements	2019	College of Science, University of Baghdad	organizer and instructor
25	Principles of Biostatistics	2019	Tropical Biological Research Unit, University of Baghdad	trainee
26	Microbial Contamination in Canned Food: Causes and Methods of Control	2019	College of Science, University of Baghdad	organizer
27	Fish deaths in the Euphrates River	2019	College of Science, University of Baghdad	organizer
28	Infection controls in hospital	2019	Cihan University, Erbil	instructor
29	Scientific writing skills for biomedical and environmental scientists	2019	Cihan University, Erbil	trainee
30	Bacteriocins "Microbial weapon of choice"	2019	Soran University, Erbil	instructor
31	Biosafety and biosecurity	2019	College of Science, University of Baghdad	instructor

Scientific conferences:

1. The 2nd national conference of Biology, Baghdad, Iraq, College of Science, Al-Mustansiriya University, 25th -26th December 2002. (Author)
2. The 1st scientific conference of biological sciences, Najaf, Iraq, College of Education for Women, Al-Kufa University, 24th -25th April 2011. (Author)
3. The 7th scientific conference of pure sciences, Baghdad, Iraq, College of Science, Al-Mustansiriya University, 4th -5th May 2011. (Author)
4. The 1st international conference of genetic engineering, Baghdad, Iraq, University of Baghdad, 22th -23th November 2011.
5. The 5th international conference on future horizon for sustainable development in Arab and African countries, Sharm El-Sheikh, Egypt, 17th -20th December 2011. (Author)
6. The 1st national conference of Nano techniques, Baghdad, Iraq, University of Technology, 25th December 2012.
7. The 1st international scientific conference – UOZ 2013, Zakho, Kurdistan Region-Iraq, Zakho University, 23th -25th April 2013.
8. The 8th Scientific conference, Baghdad, Iraq, College of Medicine, Al-Nahrain University, 5th -6th May 2013.
9. Iraq biotechnology conference, Baghdad, Iraq, Al-Nahrain Center for Strategic Studies, 7th -9th May 2013.
10. The 1st Scientific Conference for Applied Biotechnology, Baghdad, Iraq, Biotechnology Research Center, Al-Nahrain University, 30th -31th October 2013.
11. The 4th international scientific conference on nanotechnology and advanced materials, Baghdad, Iraq, University of Technology, 6th -7th November 2013.
12. Conference on environment and sustainable development, Baghdad, Iraq, University of Technology, 29th -30th December 2013.

13. The 2nd National Scientific Conference of Women, Baghdad, Iraq, Ministry of Sciences and Technology, 8th -9th January 2014.
14. The 1st International Scientific Conference, Erbil, Kurdistan Region-Iraq, Cihan University, 20th -21th April 2014.(Author)
15. The 1st International Scientific Conference of Veterinary Medicine, Duhok, Kurdistan Region-Iraq, University of Duhok, 14th -15th May 2014.
16. The 2nd International conference of genetic engineering, Baghdad, Iraq, University of Baghdad, 15th -16th October 2014.
17. The 1st International conference of Laser applications and advanced materials, Baghdad, Iraq, University of Technology, 16th -18th December 2014.
18. The 4th annual scientific of the national center of hematology, Baghdad, Iraq, Al-Mustansiriya University, 29th November 2014.
19. Medical city conference, Baghdad, Iraq, Ministry of Health, 16th -17th December 2015.
20. The 3rd Scientific Conference of Genetic and Environment, Iraq Association of Genetic and Environmental Resources Conservation, Baghdad, Iraq, 14th -15th April 2015. (Author)
21. The 2nd International Scientific Conference of Medical and Health Specialties, Baghdad, Iraq, 24-26 March 2015.(Author).
22. The 10th Scientific Conference of Al-Mustansiriya College of Medicine, Baghdad, Iraq, 9th -10th April 2015.
23. The 9th Scientific Conference of the College of Medicine, Al-Nahrain University, Baghdad, Iraq, 21th -22th December 2015. (Author).
24. The 5th annual scientific of the national center of hematology, Baghdad, Iraq, Al-Mustansiriya University, 7th November 2015.
25. The 3rd Scientific Conference of Al-Kindy College of Medicine, Baghdad, Iraq, 2nd -3rd March 2016.
26. The 3rd International Scientific Conference of Medical and Health Specialties, Baghdad, Iraq, 23th -24th March 2016.
27. The 1st Scientific Conference for postgraduate students, College of Science, University of Baghdad, Baghdad, Iraq, 5th -6th October 2016.
28. The 1st International Conference of Criminal Sciences and Forensic Medicine, Al-Nahrain University , Baghdad, Iraq, 27th -28th September 2016.
29. The 3rd Conference on environment and sustainable development, Baghdad, Iraq, University of Technology, 15th -16th November 2017.
30. The 10th Scientific Conference for Agriculture Research, Ministry of Agriculture, Baghdad, Iraq, 6th -7th December 2017.
31. The 5th International Scientific Conference of Genetic and Environment, Baghdad, Iraq, 27th -28th March 2018
32. The 1st International Conference on Safety and Security of Scientific applications, Baghdad, Iraq, College of Science, Al- Mustansiriya University, 26th -27th September 2018.
33. The 1st International Scientific Conference on Pure Science, Al-Qadisiyah, Iraq, University of Al-Qadisiyah, 23th-24th January 2019. (Author).
34. The 2nd Scientific and the 1st International Conference of Applied researches and

- patents, Baghdad, Iraq, Middle Technical University, 9th -11th April 2019.
35. The 4th National Conference of CBRN Safety and Security, Al-Nahrain Center, Baghdad, Iraq, 14th – 16th April 2019. (Author).
 36. The 3rd International Conference on Biological & Health Sciences (CIC-BIOHS'19), joint with Hawler Medical University, Erbil, Kurdistan Region-Iraq, Cihan University, April 30th - May 1st 2019. (Author).
 37. Many local scientific seminars, symposiums and meetings in biological, microbiological and biotechnological sciences.

Published papers:

1. Use of oleander and tobacco extracts as an insecticide. Al-Mustansiriya J.Sci., Vol.11, No. 1, 2000.
2. Detection of plantaricin production from local isolates of *Lactobacillus plantarum*, isolated from fermented vegetables and sourdoughs .Al- Kufa Univ. J.Biol.(special issue,2011).
3. Determination of optimum conditions for plantaricin VGW8 production by *Lactobacillus plantarum* VGW8. Al-Mustansiriya J.Sci., Vol.22, No. 4, 2011.
4. Role of heat stable filtrate of *Burkholderia pseudomallei* in cytotoxicity on some of mammalian cell lines. European Journal of Scientific Research, Vol.90, No. 4, 2012.
5. Partial purification and characterization of a bacteriocin produced by *Lactobacillus acidophilus*. Journal of Biotechnology Research Center, Vol.7, No. 1, 2013.
6. Determination of some optimum conditions for production of a killer toxin AY from the yeast *Saccharomyces cerevisiae* AY. Journal of the College of Basic Education, Vol.19, No. 80, 2013.
7. Bacterial contamination of computer keyboards and mice in a university setting. Journal of Biology, Agriculture and Healthcare, Vol.3, No. 18, 2013.
8. Effect of *Streptococcus thermophilus* supernatant and inulin on *Listeria monocytogenes* in soft cheese, Food Science and Quality Management, Vol.24, 2014.
9. Effect of carrot and ginger extracts (alone and in combination with ciprofloxacin) on multidrug resistant *Pseudomonas aeruginosa*. Journal of Pharmaceutical and Scientific Innovation, Vol.3, No. 2, 2014.
10. Study some properties of a killer toxin AY, a new killer toxin produced by *Saccharomyces cerevisiae* AY. Tikrit Journal of Pure Science, Vol. 19, No. 3, 2014.
11. Synergistic effect of bacteriocin and killer toxin against *Candida albicans*. Proceeding of the 2nd International Scientific Conference of Medical and Health Specialties, first issue, 2015.
12. Molecular identification of lactobacilli isolated from different cheeses and pickles by PCR technique. Proceeding of the 3rd International Scientific Conference of Genetic and Environment, 2015.
13. Purification and Characterization of Plantaricinvgw8, A Bacteriocin Produced by *Lactobacillus Plantarum* VGW8. Journal of Biology, Agriculture and Healthcare, Vol.5, No.1, 2015.
14. Antibacterial activity of glass ionomer reinforced by different amount of hydroxyapatite (in vitro study). International Journal of Innovative and Applied Research, Vol.3, Issue 4, 2015.
15. Probiotic Therapy: Review. Iraqi JMS , Vol. 14, No.1,2016.

16. Effect of some natural preservatives on some homemade fresh fruit juices. *Advances in Environmental Biology*, Vol.10, No.3, 2016.
17. Production of bioplastic by bacteria isolated from local soil and organic wastes. *Current Research in Microbiology and Biotechnology*, Vol. 5, No. 2, 2017.
18. Antibacterial Activity of *Lactobacillus* spp. Against *Listeria monocytogenes*. *Indian Journal of Public Health Research & Development*, Vol. 10, No.45, 2019.
19. Production and antibacterial activity of biosurfactant from *Saccharomyces cerevisiae*. *IOP Conf. Series: Journal of Physics: Conf. Series*, 2019, doi:10.1088/1742-6596/1234/1/012080

Reviewer for:

- Iraqi journal of Science (Scopus), Iraq
- Journal of microbiology, biotechnology and food sciences (Scopus), Slovakia
- Materials Research Express (Scopus), UK

Membership in scientific Societies and Committees:

- Member of International Society for Development and Sustainability (ISDS), Japan.
- Member of American Society for Microbiology (ASM), Washington, USA.
- Member of the International Society for Infectious Diseases (ISID), USA.
- Member of the examination committee for undergraduates in dept. of Biology, College of Science, Al-Mustansiriya University (2002-2005)
- Member of the examination committee for postgraduates in dept. of Biology, College of Science, Al-Mustansiriya University, (2010-2015)
- Member of the exam committee for undergraduates in dept. of Biology, College of Science, University of Baghdad (2015-2017)
- Member of many committees for postgraduate proposal approval
- Member of many committees for postgraduate theses discussion
- Member of the biology department council in dept. of Biology, College of Science, University of Baghdad (2016-2017)
- Member of the sterilization committee in dept. of Biology, College of Science, University of Baghdad (2016-2017)
- Head of the sterilization committee in dept. of Biology, College of Science, University of Baghdad (2018-present)
- Member of Miscellaneous committee in Central Organization for Standardization and Quality Control (COSQC), Ministry of planning (2018-present)

Administrative Positions:

Assistant head of the biology department for morning study (2016-2017)

Languages:

- Arabic
- English