

Curriculum Vita

Name: Khuloud Mohammed Abdullah Alarjani.

Address: King Saud University, Botany and Microbiology Department.

Telephone: (966-11) 8052545.

Nationality: Saudi.

Languages: Arabic & English.

Email: kalarjani@ksu.edu.sa

Academic Qualifications

- Doctoral of Philosophy in Bacterial Molecular Genetics - Department of Genetics and Genome Biology- School of Biological Sciences- University of Leicester-United Kingdom 2019.
- Master of Science in plant - Department of Botany and Microbiology- King Saud University- Riyadh. KSA 2012.
- Bachelor of Science in Botany and Microbiology with honour degree- Department of Botany and Microbiology- King Saud University- Riyadh. KSA 2007.

Professional certificates

- Certified Strategic Planning Professional CSPP which is certified by the CPD Certification Services, UK. 2023

Current Positions

- Assistant Professor- Department of Botany and Microbiology- College of Science- King Saud University (2019 until now).

Administrative positions

- Vice Dean Assistance for Development and Quality - College of Science - King Saud University (2020 -2023).

Previous Positions and Experiences

- Lecturer- Department of Botany and Microbiology- College of Science- King Saud University until 2019.
- During my PhD study in Chris Bayliss lab (Department of Genetics and Genome Biology, University of Leicester) I had the opportunity to supervise and train MSc and Undergraduate students (2014-2018).
- Demonstrator at Science College-Department of Botany and Microbiology- King Saud University until 2014.

University, college and community service

- Giving a training course in (Molecular cloning strategies) during summer training program 2020 held by collage of science- king saud university.
- Supervising a student within Mentoring Track during the Second Semester of the academic year 1442H in cooperation with Distinguished and Talented Students Program at the Deanship of Student Affairs-King Saud University.
- Quality Ambassador / National Quality Ambassadors Program / Saudi Standards, Metrology and Quality Organization 2022 until now.
- Participate in the application of the service learning project under the supervision of the Ministry of Human Resources and Social Development. This project has been applied on 351 MBio course in which this project aims to achieve the learning outcomes of the course through providing a community service related with what students have learned in this course to their community 2023.
- Participate in the international Conference and Exhibition for Science (ICES2023) as a session Chair, which is held in Riyadh, SA, On February 06-08, 2023.
- Giving an online workshop on (How to prepare an academic proposal) on March 13, 2023 for alumni at Majmaah University.

Committees Participation

- Member of the service learning project team/ University Vice Presidency for Educational and Academic Affairs/ Center of Excellence in Learning and Teaching / King Saud University from 2023 until now.

- Member of the Organizing Committee for Undergraduate Research Poster Exhibition /College of Science / King Saud University 2022 - 2023.
- Member of the Nomination Committee for Dean's Award for Best Research Poster/ College of Science/ King Saud University 2022 -2023.
- Member of the Supreme Committee- Department of Botany and Microbiology- Science Collage -King Saud University 2021- 2023.
- Chair of the Development and Quality Committee- Department of Botany and Microbiology- Science Collage -King Saud University 2021 -2023.
- Member of the Committee of Achieving Excellence in Academic Programs / Deanship of Development and Quality / King Saud University 2022 -2023.
- Vice President of Training and Community Relations Unit / College of Science / King Saud University 2021 until now.
- Member of the Student Rights Sub-committee at the College of Science / College of Science / King Saud University 2021-2023.
- Member of the committee of distributing offices and laboratories in the College of Science- Science Collage-King Saud University 2021- 2022.
- Member of Supervisory Committee of Strategic Planning Unit-Science Collage-King Saud University 2020- 2022.
- The Following up the implementation of the precautionary measures in the laboratories of the College of Science in Female Student Branch-King Saud University 2020.
- Chair of Alumni Unit Committee-Science Collage in Female Students Branch-King Saud University 2020.
- Member of the committee of preparing teacher for upper grades of elementary school in science subject- King Saud University 2020.
- Member of the committee of specialist training for technicians in science college- Science Collage-King Saud University 2020
- Member of Alumni Unit Committee-Department of Botany and Microbiology-King Saud University 2020.
- Member of Supervision Committee on the final exam observation-Department of Botany and Microbiology-King Saud University, 2012.
- Member of Annual Reports Committee-Department of Botany and Microbiology-King Saud University, 2010.

- Member of Supervision of laboratories Committee -Department of Botany and Microbiology-King Saud University, 2009.
- Member of Activities Committee-Department of Botany and Microbiology-King Saud University, 2009.

Initiatives

- Submitting a proposal entitled (job shadowing program), which aims to raise the efficiency of administrative work, to the vice dean of development and quality 2021.
- Providing a model of measuring the course learning outcomes, which was approved by the council board of the College of Science 2022.

Courses, Workshops and Other activities

- Attending a training course of (Administrative Decision Making) (11-12/06/1444) (10 training hours) - Deanship of Skills Development - King Saud University.
- Attending a training course of (Effective Negotiation Skills) (05/25/1444) (5 training hours) - Deanship of Skills Development - King Saud University.
- Attending a training course of (Mental Maps Course: Applications in University Teaching) (05/12/1444) (5 hours) - Deanship of Skills Development - King Saud University.
- Attending the training course of (the annual program to prepare the vice dean of development and quality in colleges and their assistants) (13-14/04/1444) (10 training hours) - Deanship of Skills Development - King Saud University.
- Participation in a workshop on (concepts and requirements of the environmental management system according to ISO14001) (03/02/1444) (3 training hours) provided by the Saudi Standards and Metrology Organization.
- Completion a training course in (Implementation of the practical requirements of ISO 9001) / Riadion Training Center approved by the Technical and Vocational Training corporation (1-2-3/09/2022) (total of 24 hours).
- Completion a training course in (Implementation of Laboratories the Quality System ISO 17025) / HDTC Training Center approved by the Technical and Vocational Training corporation (7-8-9/08/2022) (total of 15 hours).

- Participation in a workshop (Determining the training needs of faculty members at King Saud University), which was held by the Deanship of Skills Development on 15/11/1443 (total of 3 hours).
- Attending a workshop on (ISO 9001 Quality Management System) on 10/1443 (total of 2 hours) / Saudi Standards and Metrology Organization.
- Board of Assessor (BOA) course for KSU-QMS (Level 3) (1443/10/8-10-11) (total of 15 hours), Deanship of Skills Development - King Saud University.
- Board of Assessor (BOA) course for KSU-QMS (Level 2) (1443/07/3028-) (total of 15 hours) Deanship of Skills Development - King Saud University.
- Board of Assessor (BOA) course for KSU-QMS (Level 1) (1443/06/2220-) (total of 15 hours) Deanship of Skills Development - King Saud University.
- Academic Leadership Training Workshop 06/17/1443 (total of 3 hours) Deanship of Skills Development - King Saud University.
- Strategic Planning Workshop (16-17/05/1443) (total of 6 hours) Deanship of Skills Development - King Saud University.
- Completing the qualifying course for the Project Management Professional (PMP) program (1-5/08/2021) covering 35 hours - The Deanship of Skills Development – King saud university.
- Course in community partnership (1442/11/5) - The Deanship of Skills Development – King saud university.

Completion of the training program "The preparation of Quality and Academic Accreditation Practitioner" 18/07/1442 to 07/09/1442 - The Deanship of Skills Development - King saud university

- Program Accreditation Standards 2018 (2021).
- Academic program and course specification 2018 (2021).
- Academic program and course report 2018 (2021).
- Program learning outcomes assessment and course learning outcomes assessment (2021).
- Quality Questionnaires, Key Performance Indicators and Benchmarks (2021).
- Academic Program Self-Assessment and Independent Review (2021).
- The preparation for academic accreditation visits and processing of accreditation documents (2021).
- Self-study report preparation (2021).

- Course in the skills of supervision of scientific thesis (22/08/1442) - The Deanship of Skills Development – King saud university
- Course in writing a self-study report (Online/ 27-07-1442/ 3 hours).
- Course in the use of modern technology in teaching (Online/ 01-03-2021/ 3 hours).
- Attending the annual forum of quality in education, organized by Saudi Quality Council, held on Tuesday 22/10/2020 at 6 pm (Online/ 3 hours)
- Course in key performance indicators at the university and benchmarks (Online/ 26-03-1442/ 3 hours).
- Course in Modern Teaching Strategies (Online/ 24-02-1442/ 2 hours).
- Course in Quality Standards in e-Learning (Online/ 20-02-1442/ 3 hours).

Completion a training program designed for new faculty - The Deanship of Skills Development - King saud university

- Course in The Assessment Of Learning Outcomes (2020).
- Course in Effective University Teaching (2020).
- Course in Micro-Teaching (2020).
- Course in Design and Syllabus Construction (2020).
- Course in Conducting Electronic Exams using Blackboard (2020).
- Course in Creating Electronic Forms (2020).
- Course in Scientific Publication in ISI journals (2019).
- Course in a Preparation Of Annual Reports course (02/12/2019_ 4 hours).

Specialized training courses

- Introduction to Data Analysis using R and the Tidyverse course, Bioinformatics & Biostatistics Analysis Support Hub, University of Leicester, Leicester, UK (2018/ 2 days).
- Scientific Python for Programmers course, University of Leicester, Leicester, UK (2018).
- DNA-Seq NGS Analysis course, Bioinformatics & Biostatistics Analysis Support Hub, University of Leicester, Leicester, UK (2017/ 3 days).
- Course in Principle of Statistic, University of Leicester, Leicester, UK (2017).
- Introduction to ImageJ/Fiji course. University of Leicester, Leicester, UK (2016).

- Course in Exploratory Analysis and Introduction to Sampling Distributions, University of Leicester, Leicester, UK (2016).
- Course in Types of Statistical Tests and Introduction to Study Design, University of Leicester, Leicester, UK (2016).
- Course in Analysis and Assembly of DNA Sequence course, University of Leicester, Leicester, UK (2015).
- Course in Advanced Microscopy and Bio-Imaging, University of Leicester, Leicester, UK (2015).
- Course in Basic Stats, University of Leicester, Leicester, UK (2015).
- Course in Scientific Report Writing, University of Leicester, Leicester, UK (2015).
- Course in Fundamentals for an Effective Presentation, University of Leicester, Leicester, UK (2015).
- Course in Project Managing the Research Degree, University of Leicester, Leicester, UK (2014).
- Course in Personal and Professional Development Planning, University of Leicester, Leicester, UK (2014).
- Course in Effective Reading and Note Taking, University of Leicester, Leicester, UK (2014).
- Course in Designing a Poster, University of Leicester, Leicester, UK (2014).
- Course in EndNote, University of Leicester, Leicester, UK (2014).
- Course in RefWorks, University of Leicester, Leicester, UK (2014).
- Course in Excel 2010- Take Time to learn, University of Leicester, Leicester, UK (2014).
- Course in Word 2010 Long Document Essentials, University of Leicester, Leicester, UK (2014).
- Course in Positive thinking & Mental Health, King Saud University, Riyadh, KSA (2012).
- Course in E-teacher positive/E-teacher program (The Korean society for education technology) – online (2012).
- Course in Security Awareness License Educational Media - King Saud University, Riyadh, KSA (2012).

- Course in Searching in Databases and Digital Libraries Program-Deanship of skills Development-King Saud university, Riyadh, Kingdom of Saudi Arabia (2011/10 hours).
- Training and Workshop-The basics of Molecular Biology Center of Female Scientific and Medical Colleges, Central Laboratory, King Saud University, Riyadh, KSA (2011/ 32 hours).
- Course in Cell Lysis & Protein Extraction-Department of Animal, King Saud University, Riyadh, KSA (2011).
- First annual forum for university teaching workshop, King Saud University, Riyadh, KSA (2011).
- Course training in scientific research skills (at King Saud University, Riyadh, KSA/ 2011):
 - ✓ Uses of database (ISI Web) (15/11/2011).
 - ✓ How to write a scientific, good and bad published paper (18/12/2011).
 - ✓ Preparation of budget: the cost of research and sources of funding (20/12/2011).
 - ✓ How to choose references and how to make a Poster (25/12/2011).
 - ✓ Scientific Ethics (27/12/2011).
- Development cycle position of faculty members-Basics workshop, King Saud University, Riyadh, KSA (2010).
- Course in Using Smart Board in teaching, Deanship of e-learning and distance education, King Saud University, Riyadh, KSA (2010).
- Definition of the terms of the list of Graduate Studies and the rights and duties of students, Deanship of Graduate Studies- King Saud University, Riyadh, KSA (2010).
- Academic guidance Rules for students, Department of Botany and Microbiology- King Saud University, Riyadh, KSA (2010).
- Course in SPSS (Statistical package for Social Sciences) (2009/ 2 days).
- Draft Strategic Plan for Scientific Research (probe) workshop (2009/ one day).
- Updated Study Plan for Botany and Microbiology programme and the opinion of the beneficiaries' workshop, Department of Botany and Microbiology, King Saud University, Riyadh, KSA. (2009).

Conferences and Meetings

- The 5th M4 meeting was held at the University of Warwick on 13-14 September 2018, Warwick, UK (Oral Presentation).
- The Microbiology Society Annual Conference 2018 took place over four days between Tuesday 10 April and Friday 13 April and held at the International Conference Centre (ICC), Birmingham, UK (Poster Presentation).
- 19th International conference of Campylobacter, Helicobacter and related organisms (CHRO 10-14 September 2017), Nantes, France (Poster Presentation).
- The Microbiology Society Annual Conference 2017 took place between Monday 3 April to Thursday 6 April and was held at the Edinburgh International Conference Centre (EICC), Edinburgh, UK (Poster Presentation).
- The Microbiology Society Annual Conference 2016 was held from 21–24 March at the Arena and Convention Centre (ACC), Liverpool, UK (Attendance).
- The 3rd M4 meeting (Midlands Molecular Microbiology Meeting) was held at the University of Leicester in September 2016, Leicester UK (Poster Presentation).
- The 2nd M4 meeting (Midlands Molecular Microbiology Meeting) was held at the University of Nottingham in September 2015, Nottingham, UK (Attendance).
- The 5th Saudi Science Conference held on 16-18/04/2012, Umm Al Qura University, Makkah, KSA (2012)
- Preparatory Meeting of the First Scientific Conference for Students of Higher Education, Riyadh, KSA (2009).

Membership of societies

Microbiology Society-United Kingdom.

Publications

1. Mahmoud, A.H., Abul Farah, M., Rady, A., Alanazi, K. M., Mohammed, O., Amor, N., **Alarjani, K.M.** (2020). Molecular characterization of goats from Saudi Arabia using microsatellite markers. *Journal of King Saud University Science*, 23, 1681-1686.

2. Aljahani, A.H., **Alarjani, K. M.**, Hassan, Z. K., Elkhadragey, M. F., Elsayed A. I., Al-Masoud, A. H and Yehia H. M. (2020). Molecular detection of methicillin heat resistant *Staphylococcus aureus* strains in pasteurized camel milk in Saudi Arabia. *Bioscience Reports*, 40, 1-16.
3. Yehia, H. M., Al-Masoud, A. H., **Alarjani, K. M** and Alamri, M. S. (2020). Prevalence of methicillin-resistant (*mecA* gene) and heat-resistant *Staphylococcus aureus* strains in pasteurized camel milk. *Journal of Dairy Science*, 103,1-17.
4. Yehia, H. M., Elkhadragey, M. F., Aljahani, A. H and **Alarjani, K. M.** (2020). Prevalence and Antibiotic Resistance of *Listeria monocytogenes* in Camel Meat. *Bioscience Reports*, 40, 1-16.
5. Janani, B., **Alarjani, K. M.**, Raju, L. L., Thomas, A. M., Das, A., Khan, S. S. (2020). A potentmultifunctional Ag/Co-polyvinylpyrrolidone nanocomposite for enhanced detection of Cr (III) from environmental samples and its photocatalytic and antibacterial applications. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 243, 1-10.
6. Aaisha S. Al-Dhahli, Fatema A. Al-Hassani, **Khaloud Mohammed Alarjani**, Hany Mohamed Yehia, Wafa M. Al Lawati, Syed Najmul Hejaz Azmi, Shah Alam Khan. (2020). Essential oil from the rhizomes of the Saudi and Chinese *Zingiber officinale* cultivars: Comparison of chemical composition, antibacterial and molecular docking studies. *Journal of King Saud University – Science*, 32, 3344-3350.
7. K. Saraswathi S. Mahalakshmi, Ameer Khusro, P. Arumugam, **Alarjani Khaloud Mohammed**, Roua M. Alkufeidy. (2020). In vitro biological properties of *Streptomyces cangkringensis* isolated from the floral rhizosphere regions. *Saudi Journal of Biological Sciences*, 27(12), 3249-3257.
8. V. N. Kalpana, **Khaloud Mohammed Alarjani** & V. Devi Rajeswari. (2020). Enhancing malaria control using *Lagenaria siceraria* and its mediated zinc oxide nanoparticles against the vector *Anopheles stephensi* and its parasite *Plasmodium falciparum*. *Scientific Report*, 1-12.
9. S. Priyadarshini, Faridah Sonsudin, Azizah Mainal, Rosiyah Yahya, V. Gopinath, Jamuna Vadivelu, **Khaloud Mohammed Alarjani**, Dunia A. Al Farraj, Hany Mohamed Yehia. (2021). Phytosynthesis of biohybrid nano-silver anchors enhanced size dependent photocatalytic, antibacterial, anticancer properties and cytocompatibility. *Process Biochemistry*, 101, 59–71.
10. Abu Baker, Bilal Ahmad, **Khaloud Mohammed Alarjani**, Noura saleem Aldosri, Mohd Sajid Khan. (2021). Biostimulation of *Rhodovulum* sp., for enhanced degradation of di-n-butyl phthalate under optimum conditions. *Chemosphere*, 266, 1-7.

11. Priyadarshini Sakthi Mohan, Faridah Sonsuddin, Azizah Binti Mainal, Rosiyah Yahya, Gopinath Venkatraman, Jamuna Vadivelu, Dunia A. Al-Farraj 4, Amal M. Al-Mohaimed and **Khaloud Mohammed Alarjani**. (2021). Facile In-Situ Fabrication of a Ternary ZnO/TiO₂/Ag Nanocomposite for Enhanced Bactericidal and Biocompatibility Properties. *Antibiotics*, 10(86), 1-18.
12. Rasiravathanahalli Kaveriyappan Govindarajan, Krishnamurthy Mathivanan, Chartchai Khanongnuch, Rajendran Srinivasan, Kridsada Unban, Arulanandam Charli Deepak, Dunia A. Al Farraj, **Khaloud Mohammed Alarjani** and Fatmah S. Al Qahtany. (2021). Tannin acyl-hydrolase production by *Bacillus subtilis* KMS2-2: Purification, characterization, and cytotoxicity studies. *Journal of King Saud University – Science*, 33, 1-9.
13. **Khaloud Mohammed Alarjani**, Abeer M. Almutairi, Subhanandharaj Russalamma, Flanet RajJayarajapazham, Rajaselvam, Soon Woong Chang and Balasubramani Ravindran. (2021). Biofilm producing indigenous bacteria isolated from municipal sludge and their nutrient removal ability in moving bed biofilm reactor from the waste water. *Saudi Journal of Biological Sciences*, 28, 4994-5001.
14. Abeer M. Almutairi, **Khaloud M. Alarjani**, Fatmah S. AlQahtany and Ilavenil Soundharajan. (2021). Methicillin and multidrug resistant pathogenic *Staphylococcus aureus* associated sepsis in hospitalized neonatal infections and antibiotic susceptibility. *Journal of Infection and Public Health*, 14 (11), pp.1630-1634
15. **Khaloud M. Alarjani**, Manal F. El khadragy, Abdulrahman H. Al -Masoud and Hany M. Yehia. (2021). Detection of *Campylobacter jejuni* and *Salmonella typhimurium* in chicken using PCR for virulence factor *hipO* and *invA* genes (Saudi Arabia). *Bioscience Reports*, 41 (9).
16. V.A. Leslie, **Khaloud Mohammed Alarjani**, Malaisamy Arunkumar, Balamuralikrishnan Balasubramanian. (2021). Bacteriocin producing microbes with bactericidal activity against multidrug resistant pathogens. *Journal of Infection and Public Health*, 14 (12), pp.1802-1809.
17. **Khaloud M. Alarjani**, Milan Skalicky. (2021). Antimicrobial resistance profile of *Staphylococcus aureus* and its in-vitro potential inhibition efficiency. 14 (12), pp. 1796-1801.
18. Mohamed S. Elshikh, **Khaloud Mohammed Alarjani**, Dina S. Huessien, Hamzah A. M. Elnahas, Antonyrajan Roshini Esther. (2022). Enhanced Biodegradation of Chlorpyrifos by *Bacillus cereus* CP6 and *Klebsiella pneumoniae* CP19 from municipal waste water. *Environmental Research*, 205.
19. J.F. Joe Sherin, T.C. Bessy, S. Asha, C. Vijaya Kumar, Dina Huessien, M.R. Bindhu, Rabab Ahmed Rasheed, **Khaloud Mohammed Alarjani**. (2022). Microwave assisted

- hydrothermally synthesized cobalt doped zinc ferrites nanoparticles for the degradation of organic dyes and antimicrobial applications. *Environmental Research*, 208.
20. R. Ramasubramanian, S. Karthi, S. Senthil-Nathan, H. Sivanesh, N. S. Sundar, V. Stanley-Raja, Govindaraju Ramkumar, K. M. Chanthini, P. Vasantha-Srinivasan, **K. M. Alarjani**, M. S. Elshikh, A. Abdel-Megeed & P. Krutmuang. (2022). Effect of bacterial toxin identified from the *Bacillus subtilis* against the *Cnaphalocrocis medinalis* Guenée (Lepidoptera: Crambidae). *Toxin Reviews*, Published online: 02 Sep 2022.
21. Gunasekaran Suriyakala, Sivaji Sathiyaraj, Ranganathan Babujanathanam, **Khaloud Mohammed Alarjani**, Dina S. Hussein, Rabab Ahmed Rasheed, K. Kanimozhi. (2022). Green synthesis of gold nanoparticles using *Jatropha integerrima* Jacq. flower extract and their antibacterial activity. *Journal of King Saud University – Science*, 34 (2022) 101830.
22. **Khaloud Mohammed Alarjani**, Dina Huessien, Rabab Ahmed Rasheed, M. Kalaiyarasi. (2022). Green synthesis of silver nanoparticles by *Pisum sativum* L. (pea) pod against multidrug resistant foodborne. *Journal of King Saud University – Science*, 34 (2022) 101897.
23. Hashem, A., **Alarjani, K.M.**, Almutariri, K.F., Parray, J.A., Sharma, S.K., Kumar, A., Dawoud, T.M., Almaary, K.S., Shameem, N. and Abd-Allah, E.F. (2022). Impact of Microbiomes to Counter Abiotic Stresses in Medicinal Plants- A Review. In Core Microbiome (eds J.A. Parray, N. Shameem, E.F. Abd-Allah and M.Y. Mir). <https://doi.org/10.1002/9781119830795.ch3>
24. S. Smonia Joe Princy, J.F. Joe Sherin, C. Vijayakumar, C. Hentry, M.R. Bindhu, **Khaloud Mohammed Alarjani**, Nadaa Saeid Alghamidi, Dina S. Hussein. (2022), Detection of heavy metals, SERS and antibacterial activity of polyvinylpyrrolidone modified plasmonic nanoparticles, *Environmental Research*, Volume 210, 2022, 112883.
25. Hadibarata, T., **Alarjani, K.M.**, Al-Mohaimed, A.M. (2022). Biotransformation of Anthraquinone Dye by Microbial Enzymes. In: Khadir, A., Muthu, S.S. (eds) Biological Approaches in Dye-Containing Wastewater. Sustainable Textiles: Production, Processing, Manufacturing & Chemistry. Springer, Singapore. https://doi.org/10.1007/978-981-19-0526-1_4