

Academic Curriculum Vitae



Personal Information:

Full Name: Tavga Sulaiman Rashid

Academic Title: Assist prof

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Education:

- 2013 - 2016 University Putra Malaysia, Ph.D.
Major: Plant Pathology/Biological control
Advisor: Kamaruzaman Sijam, Ph.D.
- 2005 - 2008 Salahaddin University, M.Sc.
Major: Plant Pathology
Advisor: Khalid H. Taha, Ph.D.
- 2000 - 2004 Salahaddin University, B.A.
Major: Plant protection

Employment:

- October 2017 – September 2021 **Lecturer** at Plant Protection Department, Salahaddin University, College of Agricultural Engineering Sciences
- October 2017 – September 2021 **Head of Plant Protection Department**, Salahaddin University, College of Agricultural Engineering Sciences
- December 2020 – Present **Assist Prof**, Salahaddin University, College of Agricultural Engineering Sciences
- August 2016 - 2020 **Lecturer**, Salahaddin University, College of Agricultural Engineering Sciences
- Jan 2008 - May 2012 **Assistant Lecturer**, Salahaddin University, College of Agricultural Engineering Sciences
- Jan 2005 - Spring 2008 **Tutor**, Salahaddin University, College of Agricultural Engineering Sciences
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THESIS TITLES:

- **PH.D. THESIS:** ANTIMICROBIAL ACTIVITY OF *Rhus Coriaria L.* FRUIT EXTRACTS AGAINST SELECTED BACTERIAL AND FUNGAL PATHOGENS OF TOMATO
- **M.Sc. THESIS:** TOMATO STEM CANKER CAUSED BY *PHOMA LYCOPERSICI* (PLOWER.) JACZ. AND SOME METHODS OF CONTROL.

Qualifications

- Teaching qualifications: Advance
- IT qualifications: Advance
- IELTS: 6
- Any professional qualification: completed the course (The art of diction and public speaking)

Teaching experience:

2026	Phytobacteriology
2025	Advanced Research Methodology
2024	Biological control of pests and diseases
2023	Techniques of crop diseases control
2023	Biological control of pests and diseases
2022	Plant bacterial diseases
2021	Biotechnology
2021	Plant bacterial diseases
2021	Biotechnology
2021	Advanced Research Methodology
2021	Advanced Biological control
2020	Advanced Research Methodology
2019	Advanced Biological control
2019	Advanced Research Methodology
2019	Advanced Biotechnology
2019	Biological control of pests and diseases
2019	Postharvest Diseases
2019	Biotechnology
2018	Advanced Biological control
2018	Advanced plant disease diagnosis
2018	Biological control of pests and diseases
2018	Postharvest Diseases
2018	Biotechnology
2017	Biological control
2017	Biotechnology
2017	Postharvest Diseases
2011	Mycology

Research and publications

1. MuhammedSharif, M. T., & **Rashid, T. S.** (2026). Biocontrol Efficacy of Streptomyces spp. and Their Silver Nanoparticles Derived from Secondary Metabolites Against Early blight disease of tomato. SYDOWIA journal.
2. **Rashid, T.S.**, Sharif, G., Awla, H.K., Hamad, S. (2026). Eco-Friendly Management of Fusarium Basal Rot and Thrips in Onion Using Silver Nanoparticles Synthesized from Paulownia tomentosa Leaf Extract. **Micro & Nano Letters.**
3. Galali, Y., Sajadi, S. M., **Hamed Hassanzadeh**, and **Rashid, T. S.** (2026). Application of Artificial Intelligence in food science and nutrition: challenges and future perspectives. **eFood.**
4. **Rashid, T.S.**, Galali, Y., Awla, H.K. (2026). Feasibility Assessment of Walnut Health Risk: Fungal Contamination, Mycotoxins, Heavy Metals and Comparison of Nutritional Composition. **Discover Food.**
5. Qadir, S. A., Awla, H. K., & **Rashid, T. S.** (2026). Promoting Wheat Growth and Enhancing Resistance to Salt and Drought Stress through Streptomyces spp. **Journal of Basic Microbiology.**
6. **Rashid, T. S.**, & Awla, H. K. (2026). Enhancing Wheat Seed Germination and Protection Against Fungal Seed-Borne Pathogens with Beneficial Microorganisms. Journal of Phytopathology, 174(2), e70293.
7. **Rashid, T. S.**, Awla, H. K., & Sharifi, R. (2025). Biocontrol potential of metabolites from Streptomyces sp., non-toxic Aspergillus fumigatus, and their co-cultures against tomato anthracnose. Biochemical Systematics and Ecology, 123, 105067.
8. Awla, H. K., Qadir, S. A., & **Rashid, T. S.** (2025). Seed Treatment With Pseudomonas fluorescens and Aspergillus flavus Enhances Rice Growth and Suppresses Bacterial Blight Caused by Xanthomonas oryzae pv. oryzae. Journal of Phytopathology, 173(6), e70189.
9. MuhammedSharif, M. T., & **Rashid, T. S.** (2025). Evaluating the Antifungal Efficacy of Cinnamon Oil for Controlling Penicillium digitatum and Enhancing Post-Harvest Orange fruit Preservation. Zanco Journal of Pure and Applied Sciences, 37(5), 34-45.
10. Jameel, M. J., Bakir, M. Z., Awla, H. K., Mustafa, M. H., & **Rashid, T. S.** (2025). Innovative Biological Control Strategies for Managing Peach Tree Canker Disease caused by Cytospora leucostoma. Biocatalysis and Agricultural Biotechnology, 103725.

11. **Rashid, T. S.** (2025). Efficacy of *Trichoderma harzianum* as a Natural Biocontrol and Growth-Promoting Agent Against Selected Tomato Fungal Pathogens. *Journal of Phytopathology*, 173(4), e70130.
12. **Rashid, T. S., & Aziz, B. A.** (2025). Antifungal Activity of Selected Medicinal Plants Against Grey Mold Disease and Extension of Strawberry Shelf Life. *Zanco Journal of Pure and Applied Sciences*, 37(1), 51-60.
13. Rasul, M.R., **Rashid, T. S.** (2024). Quality and Yield of Potato Seed Tubers as Influenced by Plant Growth Promoting Rhizobacteria. *Biocatalysis and Agricultural Biotechnology*
14. **Rashid, T. S., Raza, B.** (2024). Antifungal Activity of Selected Medicinal Plant Extracts Against Grey Mold Disease and Extending the Shelf Life of Strawberry Fruits. *Zanco Journal of Pure and Applied Sciences*.
15. **Rashid, T. S., Galali, Y., Sajadi, S. M., and Awla, H. K.** (2024). Applications, Antimicrobial, cytotoxic activities and their associated mechanism of green silver nanoparticles: A review.
16. **Rashid, T. S., & Awla, H. K.** (2024). Bioactive constituents in *Rhus coriaria* l. fruit extract and their antibacterial activity against *Xanthomonas vesicatoria*. *European Journal of Plant Pathology*, 1-9.
17. **Sulaiman Rashid, T., Kazm Mahmud, K., Kakakhan Awla, H., & Anwar Qadir, S.** (2024). Tomato Seed Treatment and Germination Responses to Selected Plant Extracts. *Journal of Crop Health*, 1-10.
18. Ali, A. O., Awla, H. K., & **Rashid, T. S.** (2024). Investigating the In Vivo Biocontrol and Growth-Promoting Efficacy of *Bacillus* sp. and *Pseudomonas fluorescens* against Olive Knot Disease. *Microbial Pathogenesis*, 191, 106645.
19. **Rashid, T. S., Awla, H. K., & Sijam, K.** (2023). Efficacy of the nanoemulsion formulation of *Rhus coriaria* extract on selected tomato pathogens under greenhouse condition. *Biocatalysis and Agricultural Biotechnology*, 51, 102785.
20. Tarad, K. W., Saleh, H. M., & **Rashid, T. S.** (2023). A survey, Pathogenicity assay, and Molecular Identification of the Pathogenic Fungi Associated with Pistachio in Anbar Province, Iraq. *Basrah Journal of Agricultural Sciences*, 36(2), 320-333.
21. Salih, M. A., & **Rashid, T. S.** (2023). Screening for antibacterial activity in selected medicinal plant extracts against *Xanthomonas euvesicatoria*. *Polytechnic Journal*, 12(2), 22.
22. Ali, A. O., & **Rashid, T. S.** (2022). Biocontrol Activities of Olive Endophytic Bacteria Isolates Against *Pseudomonas savastanoi*. *Polytechnic Journal*, 12(2), 114-120.
23. **Rashid, T. S., Awla, H. K., & Sijam, K.** (2022). Formulation, characterization and antimicrobial activity of *Rhus coriaria* aqueous crude extract. *Biocatalysis and Agricultural Biotechnology*, 45, 102519.
24. **Rashid, T. S.** (2021). Bioactive metabolites from tomato endophytic fungi with antibacterial activity against tomato bacterial spot disease. *Rhizosphere*, 17, 100292.
25. **Rashid, T. S., Qadir, S. A., & Awla, H. K.** (2021). Induction of defence related enzymes and biocontrol efficacy of *Trichoderma harzianum* in tomato plants infected with *Fusarium oxysporum* and *Fusarium solani*. *Acta agriculturae Slovenica*, 117(1), 1-6.

26. Yasin, B., Ali, O. O., & **Rashid, T. S.** (2021). Antagonistic Activity and Plant Growth Promoting Rhizobacteria Isolated from Forest Plant Rhizosphere Against *Fusarium solani* on Thuja Seedlings. *Iraqi Journal of Agricultural Sciences*, 52(6), 1508-1515.
27. Awla, H. K., & **Rashid, T. S.** (2020). HPLC fractionation: A comparative analysis of anti-fungal compounds from different Streptomyces isolates inhibiting Colletotrichum acutatum. *Biocatalysis and Agricultural Biotechnology*, 101688.
28. Qadir, S. A., Mohammed Q.K., **Rashid, T.S.** and Hayman, K. A (2019). Abscisic Acid Accumulation And Physiological Indices In Responses To Drought Stress In Wheat Genotypes. *Iraqi Journal of Agricultural Science*, 50(2), 705-712.
29. Zaywer, Z.O., **Rashid, T. S.**, Awla, H. K. (2019). Influence of two varieties of broad bean and *Beauveria bassiana* on aphids (*Aphis fabae*) under field conditions. *PolytechnicJournal*.
30. **Rashid, T. S.**, Awla, H. K., & Sijam, K. (2018). Antifungal effects of Rhus coriaria L. fruit extracts against tomato anthracnose caused by Colletotrichum acutatum. *Industrial crops and Products*, 113, 391-397.
31. Khaleel, A. I., Sijam, K., **Rashid, T. S.** (2018). Determination Of Antibacterial Compounds Ofpunicagranatum Peel Extract By Tlc Direct Bio-Autography Andgcms Analysis. *Biochem. Cell. Arch.*18: 379-384.
32. Idan, A. A., Sijam, K., Kadir, J., **Rashid, T. S.**, Awla, H. K., & Alsultan, W. (2017). Biological Control of Pyricularia oryzae Using Antifungal Compounds Produced by Aspergillus niger. *American Journal of Plant Sciences*, 8(10), 2445-2460.
33. Awla, H. K., Kadir, J., Othman, R., **Rashid, T. S.**, Hamid, S., & Wong, M. Y. (2017). Plant growth-promoting abilities and biocontrol efficacy of Streptomyces sp. UPMRS4 against Pyricularia oryzae. *Biological Control*, 112, 55-63.
34. Alsultan, Q. M. N., Sijam, K., **Rashid, T. S.**, Ahmad, K. B., & Awla, H. K. (2017). Investigation of phytochemical components and bioautography of Garcinia mangostana L. methanol leaf extract. *Journal of Experimental Agriculture International*, 1-7.
35. Awla, H. K., Kadir, J., Othman, R., **Rashid, T. S.**, & Wong, M. Y. (2016). Bioactive compounds produced by Streptomyces sp. isolate UPMRS4 and antifungal activity against *Pyricularia oryzae*. *American Journal of Plant Sciences*, 7(07), 1077-1085.
36. Alsultan, Q. M. N., Sijam, K., **Rashid, T. S.**, & Ahmad, K. B. (2016). GC-MS Analysis and antibacterial activity of mangosteen leaf extracts against plant pathogenic bacteria. *American Journal of Plant Sciences*, 7(07), 1013-1020.
37. Nasehi, A., Kadir, J., **Rashid, T. S.**, Awla, H. K., Golkhandan, E., & Mahmodi, F. (2016). Occurrence of anthracnose fruit rot caused by *Colletotrichum nymphaeae* on pepper (Capsicum annum) in Malaysia. *Plant Disease*, 100(6), 1244-1244.
38. **Rashid, T. S.**, Sijam, K., Nasehi, A., Kadir, J., Saud, H. M., & Awla, H. K. (2016). Occurrence of Phoma Blight Caused by *Phoma destructiva* on Tomato (*Solanum lycopersicum*) in Malaysia. *Plant Disease*, 100(6), 1241.
39. **Rashid, T. S.**, Sijam, K., Awla, H. K., Saud, H. M., & Kadir, J. (2016). Pathogenicity Assay and Molecular Identification of Fungi and Bacteria Associated with Diseases of Tomato in Malaysia. *American Journal of Plant Sciences*, 7(06), 949-957.

40. Khaleel, A. I., Sijam, K., **Rashid, T. S.**, & Ahmad, K. B. (2016). Phytochemical determination and antibacterial activity of *Punica granatum* peel extracts against plant pathogenic bacteria. *American Journal of Plant Sciences*, 7(01), 159-166.
41. **Rashid, T. S.**, Sijam, K., Kadir, J., Saud, H. M., Awla, H. K., Zulperi, D., & Hata, E. M. (2016). Screening for active compounds in *Rhus coriaria* L. crude extract that inhibit the growth of *Pseudomonas syringae* and *Ralstonia solanacearum*. *Indian Journal of Agricultural Research*, 50(1):15-21.
42. **Rashid, T. S.**, Sijam, K., Kadir, J., Saud, H. M., Awla, H. K., & Hata, E. M. (2015). First report of tomato anthracnose caused by *Colletotrichum boninense* in Malaysia. *Journal of Plant Pathology*, 97(1).
43. **Rashid, T. S.**, Kamaruzaman, S., Golkhandan, E., Nasehi, A., & Awla, H. K. (2015). First Report of *Xanthomonas gardneri* Causing Bacterial Spot of Tomato in Malaysia. *Plant Disease*, 100, 854.
44. Zulperi, D., Sijam, K., Ahmad, M., Zainal, A., Awang, Y., & **Rashid, T.S.** (2014). Occurrence of *Ralstonia solanacearum* race 2 biovar 1 associated with Moko disease of banana (*Musa paradisiaca* cv. Nipah) in Malaysia. *Journal of phytopathology*, 162(10), 697-702.

MANUSCRIPTS IN PREPARATION/SUBMITTED FOR REVIEW _____

- Bacterial endophytes from medicinal plants as biocontrol agents against *Fusarium graminearum* and enhancement of wheat seedling growth
- Role and Mechanisms of Volatile Organic Compounds as Biocontrol Agent in Agriculture: A review
- Promoting Wheat Growth and Enhancing Resistance to Salt and Drought Stress through *Streptomyces* spp.
- Impact of Physical Parameters on the Green Synthesis of Clove-Derived Silver Nanoparticles and Their Antibacterial Efficacy Against *Xanthomonas vesicatoria*
- Nanoparticles derived from medicinal plant extracts and their antibacterial activity.
- Influence of Soil Chemical and Physical Properties on Actinomycetes Diversity Across Different Sites in Erbil Province

Conferences and courses attended

Tavga S. Rashid, Kamaruzaman Sijam, Jugah Kadir and Mohd Saud. (2015). Antifungal Activity of *Rhus coriaria* Crude Extracts Against *Fusarium oxysporum* Isolated From Tomato. Asian Congress on Biotechnology 2015 (ACB2015). Malaysia.

Tavga S. Rashid, Kamaruzaman Sijam, Jugah Kadir and Mohd Saud. (2015). *Rhus coriaria* Extracts for Controlling the Post-Harvest Anthracnose of Tomato Fruit. 2nd International Conference on Crop Improvement (ICCI 2015). Malaysia.

Tavga S. Rashid and Muhammad Raqib Rasul (2023). Quality and Yield of Potato Seed Tubers as Influenced by Plant Growth Promoting Rhizobacteria. International Conference on Interdisciplinary Academic Research and Innovation (IARI-23) on 1st January 2023 in Venice, Italy.

Funding and academic awards

- 2025 **Silver Medal**
The 10th International Invention Innovation Competition in Canada, iCAN 2025
- 2024 **Medal of Creativity and Excellence**
The 3rd conference for Distinguished Iraqi Inventions.
- 2021 **Gold Medal**
The 6th International Invention Innovation Competition in Canada, iCAN 2021
- 2020 **Gold Medal**
Toronto International Society of Innovation & Advanced Skills (TISIAS)
- 2016 **Best graduate doctoral program award**
Awarded by University Putra Malaysia, Office of Graduate Studies.
- 2016 **Bronze Medal**
Pameran Rekacepta, Penyelidikan Dan Inovasi 2016

PATENT

- NANOEMULSION BIOPESTICIDE COMPOSITION HAVING RHUS SPP. PLANT EXTRACT AND METHOD THEREOF. (2016). Malaysia. Patent No. PI201670214.
- SEED COATING COMPOSITION. BLASTBUSTER RS4 (2016). Malaysia.
- Innovation Biocontrol Invention for Canker Management (2025). Canada.

ADVISORY:

1. ADVISOR OF M.Sc. THESIS OF BANDY YASSIN "BACTERIAL ANTAGONISTS IN COMBINATION WITH DIFFERENT SOIL MEDIA FOR MANAGEMENT OF ROOT ROT DISEASES OF *THUJA OCCIDENTALIS*" 2020.
2. ADVISOR OF M.Sc. THESIS OF AVIN OMER, ENTITLED "BIOCONTROL ACTIVITIES OF OLIVE ENDOPHYTIC BACTERIA ISOLATES AGAINST *PSEUDOMONAS SAVASTANOI*" 2022.
3. ADVISOR OF M.Sc. THESIS OF MEDYA AHMAD SALIH "NANOPARTICLES DERIVED FROM SELECTED PLANT EXTRACTS AND THEIR ANTIBACTERIAL ACTIVITY AGAINST *XANTHOMONAS VESICATORIA*" 2022
4. ADVISOR OF M.Sc. THESIS OF KHALID WALID TARAD, ENTITLED "INVESTIGATION OF THE ROOT PATHOGENIC FUNGI ASSOCIATED WITH PISTACHIO TREES AND THEIR BIOLOGICAL CONTROL USING *TRICHODERMA HARAZIANUM*" COLLEGE OF AGRICULTURAL, UNIVERSITY OF ANBAR, BAGHDAD, IRAQ, 2022.

5. ADVISOR OF M.SC. THESIS OF MARWA TAHSEN MUHAMMEDSHARIF, ENTITLED'' DIVERSE VOLATILE ORGANIC COMPOUNDS AS BIOCONTROL AGENTS AGAINST ERWINIA CAROTOVORA AND PENCILLIUM DIGITATUM IN POSTHARVEST SYSTEMS'' 2024
6. ADVISOR OF M.SC. THESIS OF MUHAMMAD KAMAL RAHSID, ENTITLED'' BIOSYNTHESIS AND FORMULATION OF ACTINOMYCETES-DERIVED SILVER NANOPARTICLES FOR CONTROLLING ALTERNARIA SOLANI IN TOMATO PLANTS'' 2024
7. ADVISOR OF M.SC. THESIS OF TALAR KAIFI ANWAR, ENTITLED'' OPTIMIZING EXTRACTION METHODS TO ENHANCE ANTIBACTERIAL ACTIVITY OF PLANT EXTRACT COMBINATIONS AND NANOPARTICLES AGAINST ERWINIA CAROTOVORA THE CAUSAL AGENT OF POTATO SOFT ROT'' 2024

Professional memberships

SCIENTIFIC COMMITTEES:

1. ORGANIZING COMMITTEE MEMBER OF THE ROLE OF AGRICULTURE IN THE DEVELOPMENT AND PROSPERITY OF THE NATIONAL ECONOMY (ICCMAT) CONFERENCE, 16-17 OCTOBER 2020, ERBIL, IRAQ.
2. ORGANIZING COMMITTEE MEMBER OF THE 12TH INTERNATIONAL CONFERENCE OF ARAB BEEKEEPERS UNION 9-7 OCTOBER 2019.
3. ORGANIZING COMMITTEE MEMBER OF THE CONFERENCE OF AGRICULTURE MANAGEMENT, MARCH 2019, ERBIL, IRAQ.

Ad-hoc Reviewer

Asian Research Journal of Agriculture
 Brazilian Journal of Social Psychology
 International journal of plant and soil science
 The journal of plant Pathology
 The journal of Applied Biological Research
 Grasasy aceites Journal
 Industrial crops and Products Journal

Professional Social Network Accounts:

	<i>Title</i>	<i>Link</i>
1	Staff site	https://sites.google.com/a/su.edu.krd/dr-tavga-s-rashid/
2	Researchgate	https://www.researchgate.net/profile/Tavga_Rashid5
3	LinkedIn	(1) Tavga (Sulaiman) Rashid LinkedIn
4	Google scholar	https://scholar.google.com/citations?user=jqmHcNIAAAAJ
5	ORCID	https://orcid.org/0000-0001-5105-1594