



**Asst. Prof. Dr.
Hayman Kakakhan Awla**

EDUCATION

2013 - 2016

University Putra Malaysia, PhD.
Major: Plant Pathology
Advisor: Mui-Yun Wong, PhD

2005 - 2008

Salahaddin University, MSc.
Major: Plant Pathology
Advisor: Khalid H. Taha, PhD.

1999 - 2003

Salahaddin University, B.A.
Major: Plant protection

About Me:

Dr. Hayman has got BSc and MSc from Faculty of Agriculture, at Salahaddin University - Erbil, Iraq. Dr. Hayman started lecturing in Horticulture and Plant Protection Dept. at Khabat Technical Institute for a period of 6 years. He has got Ph.D. from the Faculty of Agriculture, University Putra Malaysia (UPM) on May 2016.

Dr. Hayman has published many articles and participated in multiple national and international conferences winning two International Patents alongside other contributions. He has also supervised higher committees at the Ministry of Higher Education. He is currently acting as the General Director of Scientific Research Center at Erbil Polytechnic University.

ACADEMIC EMPLOYMENT RECORD

2017 - Present

General Director of the Scientific Research Center, Erbil Polytechnic University

2016 - Present

Lecturer, Erbil Polytechnic University, Khabat Technical Institute – Plant Protection Dept.

2008 - 2012

Head of Department, Erbil Polytechnic University, Horticulture Dept.

2005 - 2008

Lecturer, Salahaddin University, College of Agriculture

HONORS AND AWARDS

2016

Bronze Medal Award

Pameran Rekcepta, Penyelidikan Dan Inovasi 2016, UPM

2017

Bronze Medal Award

The international conference and exhibition on inventions by institutions of higher learning (PECIPTA 2017)

2020

Gold Medal Award

Special Award presented by Toronto International Society of Innovation & Advanced Skills (TISIAS)

2021

Gold Medal Award

The 6th International Invention Innovation Competition in Canada, iCAN 2021

Personal Information

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ORCID: <https://orcid.org/0000-0002-3890-2750>

Tel. No.: 009647504463581

Marital Status: Married

Language Skills: Kurdish, Arabic, English

Personal Academic Websites



Nanoemulsion Biopesticide Composition Having Rhus Spp. Plant Extract And Method Thereof. (2016). Malaysia. Patent No. PI201670214.

Seed Coating Composition. (2018). Malaysia. Patent No.P12017701912

[MYPI 2017701912 ANTIFUNGAL AND GROWTH PROMOTING PREPARATION FOR COATING PLANT SEEDS \(wipo.int\)](#)

PUBLICATIONS

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.

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.**Awla, H. K.** (2021). Effect of Streptomyces xantholiticus on Rice Blast Disease Reduction and Enzyme Activity. *Polytechnic Journal*.11(1): 112-117

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.

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.

Qadir, S. A., Mohammed Q.K., Rashid, T.S. and **Awla, H. K.** (2019). Abscisic Acid Accumulation And Physiological Indices In Responses To Drought Stress In Wheat Genotypes. *Iraqi Journal of Agricultural Science*, 50(2), 705-712.

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*.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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).

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.

MANUSCRIPTS IN PREPARATION/SUBMITTED FOR REVIEW

- Biological control of the broad bean aphid using *beauveria bassiana* and streptomyces metabolites
- Antifungal effects of *Rhus coriaria* L. fruit extracts against tomato anthracnose caused by *Colletotrichum acutatum*
- Plant extracts as potential biocontrol agents against aphids and Ascochyta leaf spot of faba beans

CONFERENCE PRESENTATIONS

Characterization of *Streptomyces* sp. and its antagonistic activity against *Pyricularia oryzae* causing rice blast. 2nd International Conference on Crop Improvement (ICCI 2015). Malaysia.

Organizing Committee at Social Transformation and Regional Development Conference on Feb. 2019, Erbil, Iraq.

Toronto International Society of Innovation & Advanced Skills (TISIAS). 2020 [Online](#).

The 6th International Invention Innovation Competition in Canada, iCAN 2021 [Online](#).

Head of Scientific committee at THE 2nd INTERNATIONAL CONFERENCE OF MEDICAL AND BIOLOGICAL TECHNIQUES "ICMBT" November 2022-Erbil, Iraq.

PROFESSIONAL AFFILIATIONS AND SERVICES

AD-HOC REVIEWER

American Journal of Plant Science

Zanco Journal of Pure and Applied Sciences

EPU Journal

WORKED ON

- PCR.
- Real Time PCR.
- Plant Extraction
- Microbe Extraction
- Bacterial and Fungal detection and Characterization.
- Gas Chromatography Mass Spectrometry (GC-MS).
- Liquid Chromatography Mass Spectrometry (LC-MS).
- High-performance liquid chromatography (HPLC).
- Vacuum Freeze Dryer
- Evaporator
- All the equipment related to the biotechnology lab.

TEACHING EXPERIENCE

2018 - PRESENT	PLANT DISEASES , Erbil Polytechnic University
2017	Field Crop Diseases , Erbil Polytechnic University
2017	Horticulture Diseases , Erbil Polytechnic University
2011	Mycology , Salahaddin University
2011	Field Crop Diseases , Salahaddin University
2009	Horticulture Plant Pathology , Salahaddin University

TEACHING INTERESTS

Lectures: Microbiology. Biotechnology. Biological Control, Plant Diseases and Their Management
Plant Pest.

SEMINARS AND WORKSHOPS PRESENTED

No.	Title	Name	Place	Year
1	Library Introduction	Seminar	Malaysia	2015
2	Guide to Getting Published	Workshop	Malaysia	2015
3	Academic Career Preparatory	Seminar	Malaysia	2016
4	Strategies to Publishing in High-Impact Journals	Workshop	Malaysia	2016
5	Writing Academic Thesis	Workshop	EPU	2017
6	Type of Journals	Workshop	EPU	2018
7	EndNote	Workshop	EPU	2018
8	Find Good Journals	Workshop	EPU	2019
9	Academic Staff	Workshop	EPU	2019
10	Google Scholar and Research Citation	Workshop	EPU	2020
11	EPU workshop series	Workshop	EPU	2021
12	National University Ranking (NUR)	Workshop	EPU	2022
13	Pedagogy	Workshop	EPU	2023