

Dr. MONTHER M. TAHAT

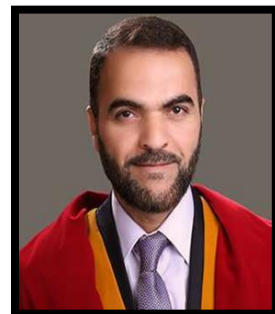
PERSONAL PROFILE:

Name: Monther Mohumad Yuesef Tahat

Place of Birth: As-Sareeh-Irbid-Jordan

Religion: Al-Islam

Nationality: Jordanian



ACADEMIC RANK:

Title: Associate Professor of Plant Pathology (Soil Microbiology).

CURRENT ADDRESS:

-Department of Plant Protection, School of Agriculture,
The University of Jordan, Amman, 11942 Jordan,

☎ : +962 6 5355000 (22516)

Mobile ☎ : 00962-77-7714813

WEB SITES:

1-Personal website:

<http://academic.ju.edu.jo/M.Tahat/default.aspx>

2-Research ID:

<http://www.researcherid.com/rid/G-9621-2012>.

3-GoogleScholar:

<https://scholar.google.com/citations?user=bAcg8CkAAAAJ&hl=en> .

4-Research Gate:

https://www.researchgate.net/profile/Monther_Tahat

5-Scopus Details:

[https://www.scopus.com/authid/detail.uri?origin=resultslist&authorId=6603789667
&zone](https://www.scopus.com/authid/detail.uri?origin=resultslist&authorId=6603789667&zone)

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6-ORCID Details

<https://orcid.org/0000-0001-7180-1487>

7- Linked in:

<https://www.linkedin.com/in/dr-monther-m-tahat-99ba3b3a/>

Emails✉ : m.tahat@ju.edu.jo , monthertahat@gmail.com , monther777@gmx.com

EDUCATION:

-PhD. 2004-2009, Department of Plant Protection, Faculty of Agriculture, University Putra Malaysia, Malaysia.

-Thesis title: **Mechanisms involved in the biological control of tomato bacterial wilt caused by *Ralstonia solanacearum* using arbuscular mycorrhizal fungi.** University Putra Malaysia (2009).

-M.Sc. 2000-2001, Department of Plant Protection, Faculty of Agriculture, University of Jordan, Jordan.

Thesis title: **Effect of two *Glomus* species and *Verticillium dahliae* on cucumber growth under greenhouse conditions.**

-B.Sc. 1996-1997, Department of Plant Protection, Faculty of Agriculture, Basrah University, Republic of Iraq.

WORK EXPERIENCE:

-Current Employee: Associate Professor of Plant Pathology/University of Jordan/ School of Agriculture/ Department of Plant Protection/Amman/Jordan (12/7/2020).

-Assistant Dean for Agricultural Stations Affairs (2023-2024).

-Employee at University Putra Malaysia-Faculty of Agriculture- Plant Protection Department Post-Doctoral Researcher (21/1/2010-21/1/2014).

-Employee at: Ministry of Agriculture-Jordan (30/7/2003-6/12/2004).

-Employee at: National Center of Agricultural Research and Technology (2/12/2001-3/8/2003).

TEACHING EXPERIENCE:

-Assistant Professor of Plant Pathology/University of Jordan. Amman/Jordan (from 3/3/2015 to 7/12/2020)

RESEARCH EXPERIENCE:

-Research assistant (1999-2001). University of Jordan/Department of Plant Protection.

-Post Doctorate, Department of Plant Protection, Faculty of Agriculture, University Putra Malaysia, Malaysia. 2010-2014.

PUBLICATIONS:

- Othman, Yahia A., Kholoud M. Alananbeh, and **Monther M. Tahat**. 2024. "Can Arbuscular Mycorrhizal Fungi Enhance Crop Productivity and Quality in

Hydroponics? A Meta-Analysis" 16, no. 9: 3662.
<https://doi.org/10.3390/su16093662>

- K. Nazari, E. Kurtulus, H. Kavaz, R. El Amil, T. Thach, H. Hekiman, G. Basbagci, E. B. Turgay, D. R. El Naggat, W. El Orabey, R. I. Omara, K. M. Alananbeh, A. Al Abdallat, **M. M. Tahat**, K. Heimoun, G. Mhairi, and S. A. Ghorrah. 2024. First Report of Expansion of Virulence in *Puccinia striiformis* f. sp. *tritici* to Wheat Resistance Genes Yr10 and Yr24 in the Middle East. Plant Dis. 2024. <https://doi.org/10.1094/PDIS-11-23-2494-PDN>.
- Alananbeh, K.M.; Othman, Y.A.; **Tahat, M.M.**; Al-Dakil, H.; Yahya, A.A.; Ayasrah, B.; Al-Share, T.; Alkhatatbeh, S.; Al-Zoubi, R.; Alnaanah, M.; et al. Forest Health Assessment in Four Jordanian Reserves Located in Semi-Arid Environments. Forests, 2023, 14, 918. <https://doi.org/10.3390/f14050918>.
- M. M. Tahat**, H. A. Aldakil, K. M. Alananbeh, and N. M. Salem. 2023. First Report of *Fusarium verticillioides* Causing Fusarium Ear Rot of Corn in Jordan. <https://doi.org/10.1094/PDIS-08-22-1807-PDN>.
- Othman, Y.A.; **Tahat, M. M**; Alananbeh, K.M.; Al-Ajlouni, M. Arbuscular Mycorrhizal Fungi Inoculation Improves Flower Yield and Postharvest Quality Component of Gerbera Grown under Different Salinity Levels. Agriculture 2022, 12, 978. <https://doi.org/10.3390/agriculture120709>.
- **Monther M. Tahat**, Hussien Al dakil and Kholoud Alananbeh (2021). First report of damping off disease caused by *Fusarium oxysporum* on *Pinus pinea* in Jordan. Plant Disease., Vol. 105, No. 12. 4153. <https://doi.org/10.1094/PDIS-10-20-2135-PDN>.
- Kholoud M. Alananbeh, **Monther M. Tahat**, Al-Taweel, Haitham (2021). First report of *Fusarium proliferatum* on date palm (*Phoenix dactylifera* L.) in Jordan. Plant Disease. Vol. 105, No. 12. 4159.
- **Monther M. Tahat**, Hussien Aldakil, Kholoud Alananbeh, Yahia Othman, and Nihad Alsmairat (2022). First Report of Strawberry Wilt Caused by *Fusarium oxysporum* Schltdl. in Jordan. <https://doi.org/10.1094/PDIS-10-21-2339-PDN>.
- **Monther Mohamad Tahat**, Ahmad Mohamad Al-Momany (2021). Phytochemical Contents in Cucumber Tissues Influenced by Enomycorrhizal Fungi and *Verticillium dahliae*. Fresenius Environmental Bulletin. 30(4):4262-4269.
- **Monther Mohamad Tahat**, Khalifa Abo-Farag, Kholoud Alananbeh, Ahmad Mohamad Al- Momany (2020). Biological control of pepper root rots disease by using arbuscular mycorrhizal fungi and olive cake. Fresenius environmental bulletin 29(11):9863-9871.

- Nida M. Salem, Ahmad Mohamad Al-Momany, **Monther Mohumad Tahat**, Hussen Aldakil (2020). First Report of *Fusarium verticilloides* causing Banana Fruit Rot in Jordan. Plant Disease. <https://doi.org/10.1094/PDIS-05-20-1116-PDN>.
- M. Tahat, Monther**; M. Alananbeh, Kholoud; A. Othman, Yahia; I. Leskovar, Daniel (2020). Soil Health and Sustainable Agriculture. Sustainability 12, no. 12: 4859.
- Qarallah B, Al-Shboul, B, Hiary , Alsawalqah,H. **Tahat, M.M**, Al-Bsoul, M., and Y, Othman. (2019). Remote Sensing of Cucumber Powdery Mildew Using Advanced Unmanned Vehicle and Image Processing Techniques. Fresenius Environmental Bulletin. 28 (12): 9181-9185.
- Monther Mohumad Tahat**, Ahmad Mohamad Al-Momany (2019). Bio-control Characterization of Two Endo-Mycorrhizal Fungi against Verticillium Wilt of Cucumber. Fresenius Environmental Bulletin. 28, (12): 9627-9635.
- Ahmad Almomany., Nida, M. Salem., **Monther Mohumad Tahat** (2019). Effect of Nano Technology in Combination with Soil Solarization to Control Panama Disease of Banana in Jordan Valley. Yüzüncü Yıl Üniversitesi Tarım Bilimleri Dergisi Cilt 29, Özel Sayı / Special Issue 31.05.
- Tahat, M. M.**, Kamaruzaman. S and Kholud M. Al-Ananbeh (2018). Exploring the use of Legumes as Host Plant Species in *Glomus mosseae* Sporulation. Legume Research, 41(6): 913-918.
- Monther Mohumad Tahat**, Nejat., N, Kamaruzaman., S. and Ganesan., V. (2014). *Glomus mosseae* bio-protection against aster yellows Phytoplasma (16srl-B) and *Spiroplasmas citri* infection in Madagascar periwinkle. Physiology and Molecular Plant Pathology. 88: 1-9.
- Tahat, M. M.**, Kamaruzaman. S and Radziah, O. (2012a). Ultrastructural changes of Lycopersicon esculentum root colonized by *Glomus mosseae* and *Ralstonia solanacearum*. African Journal of Biotechnology, Vol. 11 (25), pp. 6681-6686.
- Tahat, M.M.**, R. Othman and K. Sijam. (2012b). Ultra-structural Cellular Changes in Tomato Roots Induced by Mycorrhizal Fungi Colonization. Int. J. Agric. Biol., 14: 793–796.
- Tahat, M. M.**, Kamaruzaman. S and Radziah, O. (2012c). The potential of Endomycorrhizal Fungi to Control Tomato Bacterial Wilt *Ralstonia solanacearum* under Glass-house Conditions. African Journal of Biotechnology. 11(67), pp. 13085-13094.

- Tahat, M. M.**, Kamaruzaman. S. (2012d). Mycorrhizal Fungi and Biotic Environmental Conditions Relationships. Research Journal of Environmental Sciences, 6: 125-133.
- Tahat, M. M.**, Kamaruzaman. S.(2012e). Arbuscular mycorrhizal fungi and plant root exudate bio-communications in the rhizosphere. African Journal of Microbiological Research. 6 (46).7295-7301.
- Monther Mohumad Tahat**, Kamaruzaman Sijam and Radziah O. (2011). Bio-compartmental in vitro system for *Glomus mosseae* and *Ralstonia solanacearum* interaction. International Journal of Botany, 7: 295-299.
- Tahat, M. M.**, Kamaruzaman. S and Radziah, O. (2010a). Mycorrhizal fungi as a biological control agent. Plant Pathology journal. 9 (4)198-207.
- Tahat, M. M.**, Kamaruzaman, S and Radziah, O. (2010b). The Role of tomato and corn root exudates on *Glomus mosseae* spore's germination and *Ralstonia solanacearum* growth in vitro. International Journal of Plant Pathology 1(1): 1-12.
- Tahat, M. M.**, Kamaruzaman. S and Radziah, O. (2010c). *Ralstonia solanacearum*, the bacterial wilt causal agent. Asian Journal of Plant Sciences. 9 (7): 385-393.
- Tahat, M. M.** (2009). Mechanisms involved in the biological control of tomato bacterial wilt caused by *Ralstonia solanacearum* using arbuscular mycorrhizal fungi. PhD Thesis. University Putra Malaysia.
- Tahat, M. M.**, Kamaruzaman S, Radziah, O. Kadir, J and Masdek. H.N (2008a). Role of plant host in determining differential responses to *Ralstonia solanacearum* and *Glomus mosseae*. Plant Pathology Journal.
- Tahat, M. M.**, Kamaruzaman, S. Radziah, O., Plant host selectivity for multiplication of *Glomus mosseae* spore. International Journal of Botany 4(4):466-470. Kadir. J. and Masdek. H.N (2008b).
- Tahat, M. M.**, Kamaruzaman. S. Radziah, O. Kadir. J and Masdek.H.N. (2008c). Response of (*Lycopersicum esculentum* Mill.) to different arbuscular mycorrhizal fungi species. Asian Journal of Plant Sciences, 7(5):479-484.
- Shibli, R. A., Sawwan. J. Swaidat. I, and **Tahat. M. M.** (2001). Increased phosphorus mitigates salinity adverse effects in vitro. Communications in Soil Science and Plant Analysis. 32 (3&4). 429- 440.
- Sawwan, J., Shibli R. A., Swaidat. I. and **Tahat. M. M.** (2000). Phosphorus regulates osmotic potential and growth of African violet under in vitro-induced water deficit. J. Plant Nutrition. 23:759- 771. 7(2):140-147.

CONFERENCES & SYMPOSIUMS:

- 1-Almomany, A., Salem, N. and **Tahat, M. M** (2018). Genetic diversity and phylogeny of *Fusarium* species associated with Panama disease of banana in Jordan. International Congress of Plant Pathology (ICPP) 2018: PLANT HEALTH IN A GLOBAL ECONOMY, July 29-August 3, 2018, Boston, Massachusetts, USA.
- 2- Kholoud M. Alananbeh, Ayed Al-Abdallat, **Monther M. Tahat** (2018). Survey of wheat stem rust *Puccinia graminis f. sp. tritici* in Jordan. The 2018. BGRI TECHNICAL WORKSHOP, 13-17- 4-2018, Marrakech, Morocco.
- 3-Ahmad Al-Momany, Nida Salem, **Monther Tahat** (2018). Effect of Nanotechnology with soil solarization to control Panama disease of Banana in Jordan Valley. International Eurasian Agriculture and Natural Sciences Congress. Azerbaijan (Baku) 11-15 September 2018.
- 4- Bassam AL-Qarallah, Bashar Al-Shboul, Hazem hiary, Asmaa Aljawawdeh, Hamad Alsawalq, and **Monther Tahat** (2017). An Image Processing Approach for Cucumber Powdery Mildew Infection Detection. Proceedings of the New Trends in Information Technology (NTIT-2017). The University of Jordan, Amman, Jordan. 25-27 April 2017.
- 5- **Tahat, M.M** and Kamaruzaman Sijam. (2012). The role of root exudates on *Glomus mosseae* spore germination under in vitro conditions. International Agriculture Congress. Marriot Putrajaya, Malaysia. 4-6 September.
- 6- **Tahat, M.M** and Kamaruzaman., S. (2011). Root ultra-structural changes induced by mycorrhizal fungi colonization. International Congress of the Malaysian Society for Microbiology. 2011, Penang, Malaysia, 8 -11 December.
- 7-**Tahat, M.M.**, Kamaruzaman. S., Radziah, O., Kadir. J and Masdek. H.N. (2008). Biologic interaction between *Ralstonia solanacearum* and *Glomus mosseae* under laboratory conditions. MAPPS. Conference. Kuala Lumpur. Malaysia. 26-29. August.
- 8-Tahat, M.M., Kamaruzaman. S., Radziah, O., Kadir. J and Masdek. H.N. (2007). Selection of plant host for *Glomus mosseae* inoculum production. In proceeding of the Malaysian Society of Microbiology, Kuala Terengganu, Malaysia, 24-26. November.

MANUSCRIPT IN PROGRESS:

- 1-Monther Mohamad Tahat (2023). Common methods in arbuscular mycorrhizal fungi inoculums production (writing).
- 2-Tahat, M. M., (2023). The Compatible and Deleterious Impact of Pesticides on Arbuscular Mycorrhizal Fungi Association (Phytopathology Journal) (Writing).
- 3-Tahat, M. M., (2023). The Powerful of Arbuscular Mycorrhizal Fungi Inoculums Production. (Writing).

4-Tahat, M. M., (2023). Arbuscular Mycorrhizal Fungi and Soil Symbiotic Microorganism Interactions (Writing).

5-Tahat, M. M., (2022). *Glomus mosseae* efficiency on the growth of different *Vinca rosea* cultivars (Writing).

ONGOING RESEARCH:

1-The Potential of Using Endomycorrhizal Fungi to Control the Damping-off Disease on Strawberries and to Enhance the Morphological and Physiological Properties of the Fruit (started in 2019). funded by the Deanship of Academic Research/ University of Jordan.

2-Survey and Evaluation of the Impact of Using Different Physical and Biological Methods in Controlling Panama Disease in Jordan Valley (started in 2016-closed 13\8\2018). (Funded by the Ministry of Higher Education). Amman/Jordan

3-Survey and characterization of wheat stem rust in Jordan (started in 2019). funded by the Deanship of Academic Research/ University of Jordan

4-The influence of indigenous arbuscular mycorrhizal fungi inoculation on the growth and flower quality of Gerbera at different salinity levels (Started in 2018-Closed 2022). funded by the Deanship of Academic Research/University of Jordan.

5-Collecting and characterizing wheat stem rust *Puccinia graminis* in Jordan using molecular techniques (funded by ABDUL HAMEED SHOMAN Foundation) (started 2020).

GRADUATE STUDENT SUPERVISION:

1.Khalefah Gomaa Bo-farraj (2016). Biological control of pepper root rots disease by using arbuscular mycorrhizal fungi and olive cake. (Master thesis/ University of Jordan).

GRADUATE STUDENT COMMITTEES:

1-Osam Al-Arabi (2017). Influence of three *Bacillus* spp. on different parameters of cauliflower plant growth when tested on tobacco whitefly *Bemisia tabaci* (gennadius) (Homoptera: Aleyrodidae) (Master Thesis/University of Jordan).

2-Mohamad Assad Ibrahim (2018). Biological Control of *Sclerotinia sclerotiorum* by Indigenous Bacteria Isolates (Master Thesis/Jordan University of Sciences and Technology).

3-Noor Sameh Abo-Shanab (2021). (Master Thesis/University of Jordan).

RESEARCH INTEREST:

-Mycorrhizal fungi as biocontrol agents against plant diseases (Fungi, Bacteria, Spiroplasma, Phytoplasma).

-Mycorrhizal fungi culturing and manipulation in a large scale.

- Management of soil-borne disease using beneficial microbes (AMF, *Trichoderma* spp., Actinomycetes, PGPR).
- Phyto-pathogenic bacteria (control, management, beneficial).
- AMF as bio-fertilizers for poor soil.
- Plant soil and microbe interactions.
- Plant disease epidemiology.
- Field crop disease.
- Forest diseases.

PROFESSIONAL MEMBERSHIPS:

- Member of Agricultural Engineer Association/ Jordan, from 1997-present.
- Member of the Malaysian Society for Microbiology, from 2007-Present).
- Arab Society for Plant Protection. 2002- Present.

TEACHING COURSES:

- 1-Plant Fungal Diseases.
- 2-Phyto-Pathogenic Bacteria.
- 3-Principles of Plant Protection.
- 4-Seminar in Plant Protection.
- 5-Special Training in Plant Protection
- 6-Practical and Training Course (Alghour Course).
- 7-Campus Life and Ethics.
- 8-Beneficial Fungi
- 9- Weed Science
- 10-Weed Control and Management (Master students).
- 11-Entrepreneurship and Innovation
- 12-Special Training in Plant Protection

labanna@ju.edu.jo.