

Curriculum Vitae



Ahmad Mohamad Al-Raddad AlMomany, Ph.D.
Professor of Mycology and Plant Pathology

Personal information

Name: Ahmad Mohamad Mustafa Al-Raddad Al-Momany
Date of birth and nationality: 1954, Jordan.
Marital status: Married
Academic rank: Professor (Since August 1994)
Specialization: Mycologist and Plant Pathologist
Address: Faculty of agriculture, The University of Jordan, Amman,
JORDAN
Telephone: 00962-6-5355000 Ext.22512 (**Office**),
Email: momanyah@ju.edu.jo; momanyah1@gmail.com

Education

- PhD in Plant Pathology-Mycology (June 1983): Department of Plant Pathology and Plant Protection, Leibniz University Hannover, Germany.
- MS in Plant Protection (July 1979): The University of Jordan, Faculty of agriculture, Department of Plant Protection, Amman, Jordan.
- BS in Plant Production and Protection (June 1977): The University of Jordan, Amman, Jordan.

Publications

Total publications 79,

Papers in Refereed Journals (67 paper).

* Ahmad Mohamad AL-MOMANY. (2023). The importance of *Agaricus* and *Pleurotus* as wild mushrooms in Jordan for sustainable development and food security. *Economy and Environment Review*. Vol. 6 (Special Issue), May 2023. p 282-297.

* Ahmad Mohamad AL-MOMANY*, Hanan Aref Hasan and Ayed M. Al-Abdallat. (2022). **First Record and Molecular Identification of *Amantia manginiana* in Jordan. *Jordan Journal of Agricultural Sciences*. Volume 18, No.2, 73-79.**

* Ahmad Mohamad AL-MOMANY*, Nida SALEM, Monther Mohamad TAHAT. **Incidence and distribution of Panama disease of banana in Jordan Valley**. Sent on **9-10-2023** to Renewable Agriculture and food systems for Publication.

* Ahmad Al-Raddad Al-Momany, (2021). **Applications of Vesicular Arbuscular Mycorrhizal fungi for Sustainable Agriculture in Jordan. *Jordan Journal of Agricultural Sciences*, Volume 17, No.3, 149-168. Supplement, 2021.**

* Monther Mohamad Tahat, Ahmad Mohamad Al-Momany. (2021). PHYTOCHEMICAL CONTENTS IN cucumber tissues influenced by endomycorrhizal fungi and *Verticillium dahliae*. ***Fresenius Environmental Bulletin*. Volume 30, (04A), 4262-4269.**

* Salem, N. M., AlMomany, A. M., Tahat, M. M. and Aldakil. H. (2020). First Report of *Fusarium verticillioides* Causing Banana Fruit Rot in Jordan. ***Plant Disease***. 104, (12), Page 3255. published online as <https://doi.org/10.1094/PDIS-05-20-1116-PDN>.

* Hanan Aref Hasan, Ahmad Mohamad Almomany, Shireen Hasan and Ayed M. Al-Abdallat, (2020). Investigation and Assessment of Genetic Diversity among *Pleurotus* spp. Isolates from Jordan, **Chapter 10 in *Recent Progress in Microbiology and Biotechnology Vol. 3 (2020)***. Book Publisher International. Print ISBN: 978-81-947979-0-6, eBook ISBN: 978-93-90206-99-5. DOI: <http://doi.org/10.9734/bpi/rpmb/v3.85>

* Monther Mohumad Tahat, Khalifa Abo-Farag, Kholoud Alananbeh, Ahmad Mohamad Al-Momany. (2020). THE EFFICACY OF *GLOMUS MOSSEAE* AND OLIVE CAKE TO CONTROL A CHILI PEPPER (*CAPSICUM ANNUUM*) DAMPING OFF DISEASE. **Fresenius Environmental Bulletin. Volume 29, (11), 9863-9871.**

* Ghina Jaber Al-Hmoud and Ahmad Mohamad Al-Momany, (2020). EFFECT OF FOUR MYCORRHIZAL PRODUCTS ON ONION GROWTH. **Fresenius Environmental Bulletin. Volume 29, FEB-4, 2277-2282.**

*Ahmad Mohamad Al-Momany, (2019). Use of heat-treated olive cake as organic fertilizer to mycorrhizal and non-mycorrhizal tomato plants. **Fresenius Environmental Bulletin. 28, FEB-6, ٤٦٠٨-٤٦١٢.**

*Ahmad AlMomany, Shaher Ahmad Arabiat and Abdelnabi Fardous, (2019). Growth and quality of sweet corn irrigated with treated waste water to control Fusarium wilt. **Fresenius Environmental Bulletin. 28, FEB-6, ٤٦١٣-٤٦٢١.**

* Monther Mohumad Tahat, Ahmad Mohamad AlMomany, (2019). BIO-CONTROL CHARACTERIZATION OF TWO ENDO-MYCORRHIZAL FUNGI AGAINST VERTICILLIUM WILT OF CUCUMBER. **Fresenius Environmental Bulletin. 28, FEB-12, 2019, 9627-9635.**

*Ahmad Mohamad ALMOMANY, Nida SALEM, Monther Mohumad TAHAT, (2019). Effect of Nano Technology in Combination with Soil Solarization to Control Panama Disease of Banana in Jordan Valley, **Yuzuncu Yil University Journal of Agricultural Sciences, 29, / Special Issue 31.05.2019. 16-23.**

*Ahmad Mohamad Almomany And Nafi' Khalaf Al Masaed, (2019). IMPACT OF PHYSICAL PROPERTIES OF SUBSTRATE ON MYCELIAL GROWTH AND YIELD OF TWO STRAINS OF *AGARICUS BISPORUS*. Trabzon in Turkey on April 16 – 18, 2019. Proceedings of the **Third INTERNATIONAL CONFERENCE ON AGRICULTURE, FOOD, VETERINARY AND PHARMACY SCIENCES.**

- * Ahmad Mohamad Almomany. (2018). Biodiversity of wild mushrooms in Jordan. Jordan Royal Botanic Garden. 318 pages.
- * Almomany, A., Salem, N. and Tahat, 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 at Boston, Massachusetts, USA**, July 29-August 3, 2018.
- *Hanan Aref Hasan, Ahmad Mohamad Almomany, Shireen Hasan, Ayed M. Al-Abdallat. (2018). Assessment of Genetic Diversity among *Pleurotus* spp. Isolates from Jordan. Journal of Fungi. Vol. 4, 52. Manuscript ID: jof-278597.
- *Al-Hmoud Ghina and Ahmad AlMomany. (2017). Effect of Four Mycorrhizal Products on Squash Plant Growth and its Effect on Physiological Plant Elements. Advances in Crop Science and Technology. 5:1. DOI: 10.4172/2329-8863.1000260
- *Talal Ahmad Thalji and Ahmad Almomany. (2016). Effect of fungi on viability of farmer's wheat seeds stored for planting in Jordan. Jordan Journal of Agricultural Sciences. Deanship of Academic Research. Vol. 12, No. 2, 347-362.
- *Al-Hmoud. G and Ahmad Almomany. (2015). Effect of Four Mycorrhizal Products on Fusarium Root Rot on Different Vegetable Crops. Journal Plant Pathology & Microbiology 6: 255. doi:10.4172/2157-7471.1000255.
- *Ahmad Al-Raddad Almomany, Shaher Ahmad Arabiat and Abdelnabi Fardous (2014). Growth and quality of tomato irrigated with treated waste water to control Fusarium wilt. International Journal of the Environment and Water Vol. 3, issue 5, 161-176.
- * Al-Momany, Ahmad Mohamad. (2013). Nutritional aspects of two widely consumed wild edible mushrooms in Jordan. Journal of life Sciences, Vol. 7, (6). 655-659.
- * Shaher Arabiat, Ahmad AlMomany and Abdelnabi Fardous. (2013). EFFECT OF TREATED WASTEWATER ON FUSARIUM WIL OF TOMATO AND SWEET CORN AND HOST RESISTANCE. Proceedings of Istanbul solid waste, water and wastewater congress. 22-24 May 2013. Istanbul, Turkey.

* Adel Al Abed, Ahmad AlMomany and Luma Al-Bana. Effect of initial inoculum on the reproduction of *Heterodera latipons*. (2013). Jordan Journal of Agricultural Sciences. Vol. 9, (3), 336-342.

*Al-Momany, Ahmad Mohamad and Gücel, Saleh (2011). Chemical compositions and nutritional value of three edible mushrooms widely consumed in Cyprus. Jordan Journal of Agricultural Sciences. Vol. 7, No 3, 540-548.

*Al-Momany, Ahmad and Talal Thalji. (2011). EFFECT OF IRRIGATION TYPES ON THE DEVELOPMENT OF LEAF SPOT (*Alternaria alternata* A.) AND RUST (*Uromyces viciae-fabae*) ON THREE CULTIVARS OF BROAD BEAN (*Vicia fabae* L). Mutah Lil-Buhuth wad-Dirasat. Vol.26. No (1), 11-22.

Al-Momany, A., Ananbeh, K. (2010). Conversion of Agricultural Wastes into Value Added Product with High Protein Content by Growing *Pleurotus ostreatus*. In: Gökçekus, H., Türker, U., LaMoreaux, J. (eds) Survival and Sustainability. Environmental Earth Sciences. Springer, Berlin, Heidelberg. https://doi.org/10.1007/978-3-540-95991-5_139

*Ahmad Al-Raddad Al-Momany. (2010). Incidence and Prevalence of Verticillium wilt of Olives in Jordan. Jordan Journal of Agricultural sciences. Vol. 6, 373-386.

*Al-Momany, Ahmad Mohamad and Gücel, Saleh (2009). A comprehensive study on *Agaricus* species of North Cyprus. World Journal of Agricultural Sciences. Vol 5, (2), 195-200.

*Ananbeh K. and Al-Momany, A., (2008). Production of Oyster Mushroom (*Pleurotus ostreatus*) on Tomato Tuff Agro waste. Dirasat, Agricultural Sciences. Vol. 35, (3), 133-138.

* Karajeh, M. and Al-Momany, Ahmad Al-raddad (2008). Effect of post-planting soil solarization and solar chamber on Verticillium wilt of olive. Jordan Journal of Agricultural sciences. Vol. 4, (4), 335-342.

* Al-Momany, A. and Ananbeh, H. (2007). Conversion of agricultural wastes into value added product with high protein content by growing *Pleurotus ostreatus*. Proc. of International Conference on Environment:

Survival and Sustainability. Nicosia-Northern Cyprus. 19-24 Feb. 2007.

* Al-Momany, A. (2005). First record of *Eutypa maura* perithecia on grapevine in Jordan. Proc.2nd Saudi Scientific Conference. Fac. Sci., KAS, 15-17 March 2004, Part 1, pp. 119-128. (2005 A.D./1425 A.H.)

*Al-Momany, A. and Koloud A. (2005). Production of Oyster mushroom (*Pleurotus ostreatus*) on olive cake agro waste. Dirasat. (1), 32, 25-32

* Al Abed A., Al-Momany Ahmad., Al Banna L. (2004). *Heterodera latipons* on Barley in Jordan. **Phytopathol. Mediterr.** Vol 43, (3), 311-317

* Gandah I, & Al-Momany A. (2003). The occurrence and seed transmission of bean anthracnose caused by *Colletotrichum lindemuthianum* in Jordan. Dirasat, Vol.30, (2), 205-210.

*Al-Momany, A. (2002). Dieback of grapevine in Jordan (Ajloon province). Tanta Journal of Agricultural Research. Vol. (3), 28, 1266-1276.

* Abu-Blan, A, Al-Momany & Jaafreh J. (2002). Host range and survival of powdery mildew of cucumber in Ghor El-Safi area, Jordan. Dirasat.Vol.17, (2), 23-33.

* Abu-Qamar and Al-Raddad AL-Momany A. (2002). Physiological changes of olive trees infected with *Verticillium dahliae* and treated with different control methods. Dirasat. Vol. 29, (3), 272-275

* Abu-Qamar and Al-Raddad Al-Momany A. (2001). Integrated control of *Verticillium* wilt of olive with cryptonol in combination with solar chamber and fertilizer. *Phytoparasitica*. 29, (3), 223-230.

* Abu Obeid I. M., Al-Raddad AL-Momany A.and Mustafa T. (2000). Temperature and media effects on growth rate of *V.lecanii*. Mutah Lil – buhuth wad- Dirasat. vol. 15. (2). 75- 86.

* Ereifej, K. and Al-Raddad AL-Momany A. (1999). Identification and quality evaluation of two wild mushrooms in relation to *Agricus bisporus* from Jordan. *J.Food Sci .& Technol* . Vol . 36. (1). 81-83.

* Karajeh M. and Al-Raddad AL-Momany A. (1999). Effect of VA Mycorrhizal fungus (*Glomus mosseae* Gerd and Trappe) on *Verticillium dahliae* Kleb . Dirasat, agricultural sciences. Vol. 26. (3). 338-341.

- * Al-Karaki G. N., A. Al-Raddad & R. B. Clark. (1998). Water stress and mycorrhizal isolate effects on growth and nutrient acquisition of wheat. *Journal of Plant Nutrition*. Vol. 21. (5), 891-902.
- * Naser Z. and Al-raddad AL-Momany A. (1998). Dissemination factors of *Verticillium* wilt of olive in Jordan. *Dirasat*. Vol, 25. (1). 16- 21
- * Al-Karaki G. N. and A. Al-Momany (1997). Effects of arbuscular mycorrhizal fungi and drought stress on growth and nutrient uptake of two wheat genotypes differing in drought resistance. *Mycorrhiza*: 7, 83-88.
- * Abu Irmaileh, B and Al-Raddad Al-Momany A. (1997) Efficiency of powdery mildew fungus (*Convolvulus arvensis*) in controlling Chenopodium grass (*Erysiphe convolvuli*). *Dirasat*, Vol. 24 (2), 304-311.
- * Al-Karaki G.N. and Al- Momany. A. (1996). Effects of water stress and inoculation with VA mycorrhizal fungi on growth and nutrient uptake in wheat. *Mu'tah J. for Research and studies*. Vol. 11 No (4): 213-232.
- * Al-Momany, A. (1995). Interaction of *Glomus mosseae* and *Paecilomyces lilacinus* on *Meloidogyne javanica* of tomato. *Mycorrhiza*. Vol. 5:233-236.
- *Al-Momany,A. (1995). Mass production of *Glomus mosseae* spores. *Mycorrhiza*.Vol.5: 229-231.
- * Al-Raddad Al-Momany A. (1994). Control of powdery mildew on okra. *Dirasat*, Vol. 12 (6b), 7-13.
- * Al-Momany, A.(1993). Effect of soil and foliar applications of two fungicides on the growth and mycorrhizal colonization of bean. *Alexandria Journal of Agricultural Research*. Vol. 38, (3), 413-426.
- *Al-Momany, A. (1993. Effect of powdery mildew on squash yield. *Phytopathologia Mediterranea*. Vol. 32(1): 44-47.
- * Al-Momany, A. (1993). Distribution of different Glomus species in rainfed areas in Jordan. *Dirasat*. Vol. 20B, No.2, 165-182.

- * Natour, R. Salhab, A. Al-Momany, A. and Saba, E. (1992). Wild mushrooms in Jordan. *Dirasat*. Vol. 19 B, No.2, 27-60.
- * Al-Raddad Al-Momany A and Shatat F. (1992) Evaluation of some grapevine cultivars for susceptibility to powdery mildew. *Dirasat*, Vol. 19 (2), 29-42.
- * Al-Raddad Al-Momany, A. (1991). Response of bean, broadbean and chickpea plants to inoculation with Glomus species. *Scientia Horticulturae*. 46(3-4), 195-200.
- * Al-Momany. A. and Abu-Blan, H.A. (1991). Air-Borne fungal spora during two rainfall seasons in Amman, Jordan, *Basrah Journal of Agricultural Sciences*. Vol. 4, No. (1-2), 101-112.
- * Al-Momany, A. (1990). Effect of vesicular - arbuscular mycorrhizal fungi on growth of olive seedlings (*Olea europaea* L.) under different nutrient levels. *Iraqi J. Agric. Sci*. Vol. 21 (1), 34-51.
- * Al- Momany A, (1989). Occurrence of vesicular arbuscular mycorrhizal fungi on crop plants under irrigation. *Research Journal of Aleppo University*. Vo. 13. Agric. Sci. Series. 31-44 and 13-17.
- * Al-Raddad Al-Momany A and Saket I. (1989) Maximization of mineral absorbency of olive seedlings through inoculation with vesicular arbuscular mycorrhizal fungi. *Aleppo Agricultural Journal*. Vol. 13, 31-42.
- * Al-Raddad Al-Momany A and Abu Blan H. (1989) Effect of some fungicides on powdery mildew of pepper grown under greenhouse conditions. *Emirates Journal of Agricultural Sciences*. Vol. 1, 57-66.
- * Al-Raddad Al-Momany A (1988). "Effect of vesicular arbuscular mycorrhizae on Fusarium wilt of tomato and pepper. *Alexandria Journal of Agricultural Research*. Vol. 33, No. (1): 249-261.
- * Al-Raddad Al-Momany A and Abu Gharbieh W. (1988) Effect of soil solarization on *Glomus mosseae* and *Fusarium sp.* *Dirasat*, Vol. 15 (10b), 85-95.
- * Ahmad Al-Raddad Al-Momany (1987). "Effect of three vesicular arbuscular mycorrhizal isolates on growth of tomato, eggplant and pepper

in a field soil- "Dirasat. Vol. 14(11) : 161-168 .

* Saleh, H and Al-Momany A (1987). "Response of okra to two vesicular arbuscular mycorrhizal fungal isolates. "Dirasat. Vol. 14(2): pp, 119-122.

* Al-Raddad Al-Momany A (1987) Effect of some fungicides on powdery mildew of squash grown under greenhouse conditions in Jordan Valley. Sudan Journal for Agricultural Sciences. Vol. 12,138-145.

Books and Manuals (6)

1. Al-Momany, A. 2018. Biodiversity of wild mushrooms in Jordan. Royal Botanic Garden. First Edition, Amman, Jordan. 302 p.
2. Al-Momany, A. and Guecel, S., 2009. Mushrooms of North Cyprus, ecology, distribution, classification and Toxicity. Vol., 1, Near East University. Vol. 1. Cyprus.
3. Al-Momany, A. and Alantary, T. 2008. Home and garden pests. Deanship of Academic Research, Second Edition, The University of Jordan Press. Amman, Jordan.
4. Mustafa. T. and Al-Raddad Al-Momany, A. Home and garden pests, 1990 Cairo, 360 p. Dal al Arabieah lilnashr wa Tawzeeh.
5. Abu Gharbieh *et al.* Principles of plant pathology, 1994. Amman, 390 p.
6. Abu-Blan, H. and Al-Raddad Almomany. Manual of plant pathology. 1995. Amman, 213 p.

Scientific Reports

Scientific Report about symptoms of wild mushroom toxicity and treatments for Alghad Newspaper. 4 pages. 2, January 2019.

1. Al-Momany et al. (1994). Research strategy for the irrigated agriculture subsector. Jordan. National Center for Agricultural Research arid Technology Transfer. 108 pages.
2. Al- Momany A. (1990). Is it possible to control root pathogens with endomycorrhizal fungi? Agriculture Engineer Journal. Vol. 39, 70-71.
3. Al- Raddad Almomany, A. (1989). Beneficial fungi in Jordan.

- Agriculture Engineer Journal. Vol. 36, 87.
4. Al-Raddad Almomany, A. (1988). Methods of good storage and the physiological disorders of crops during storage. Agriculture Engineer Journal. Vol. 33, 39-42.
 5. Abu-Blan H. and Al-Raddad, A. (1989). Peach leaf curl and its control in Jordan. Leaflet No. 9 of Jordan University Press. Jordan.
 6. Abu-Blan H. and Al-Raddad, (1987). Control of Powdery mildew of grape. Leaflet No.2. of Jordan University Press Jordan.
 7. Al-Raddad, A. and Abu-Blan, H. (1988). Control of apple scab in Jordan. Leaflet NO. 6 of Jordan University Press. Jordan.
 8. Saleh, H. and Al-Raddad Almomany. A. (1986). Effect of endomycorrhizal fungi on root knot nematode of tomato and eggplant. Arab Journal of Plant Protection. Vol. 4(1), 49, abstract.
 9. Agricultural Agenda in 1991. Jordan University Press, Jordan.
 10. Al-Raddad, Video film on vegetable diseases in Jordan Valley. Technology Center in University of Jordan. I 987. Jordan.
 11. Production of video film on wild toxic mushrooms in Jordan. Technology Center at the University of Jordan. 1990. Jordan.
 12. Al-Momany et al. (1994). Research strategy for the irrigated agriculture subsector. Jordan. National Center for Agricultural Research and Technology Transfer. 108 pages.
 13. Al-Momany A.(1990). Is it possible to control root pathogens with endomycorrhizal fungi. Agriculture Engineer Journal. Vol. 39, 70-1.
 14. Al-Raddad Almomany, A. (1989). Beneficial fungi in Jordan. Agriculture Engineer Journal. Vol. 36, 87.
 15. Al-Raddad Almomany, A. (1988). Methods of good storage and the physiological disorders of crops during storage. Agriculture Engineer Journal. Vol. 33, 39-42.

Academic and Research Experience

August 1994 – Present. Professor of Mycology-Plant Pathology, Faculty of Agriculture, Department of Plant Protection, The University of Jordan, Amman-Jordan.

Sept. 2011 – August 2012: Visiting Professor of Mycology and Plant Pathology, The Royal Botanic Garden, Amman, Jordan. (Sabbatical leave).

Sept 2008 – August 2009: Visiting Professor at Department of Plant Protection, Leibniz University Hannover, and Near East University, North Cyprus, Faculty of Science, Museum.

Feb1997 - September 1997: Visiting Professor at Department of Plant Production, Faculty of Agriculture. Jerash University, Jerash, Jordan.

Sept 1992 – August 1993: Visiting Professor at Department of Plant Production, Faculty of Agriculture. Jordan University of Science and Technology, Irbid, Jordan.

July 1989 – August 1994: Associate Professor of Plant Pathology, Faculty of Agriculture, Department of Plant Protection, The University of Jordan, Amman-Jordan.

Feb 1984 – July 1989: Assistant Professor of Plant Pathology, Faculty of Agriculture, Department of Plant Protection, The University of Jordan, Amman - Jordan.

Dec 1983 – Feb. 1984: Lecturer of Plant Pathology, Faculty of Agriculture, Department of Plant Protection, The University of Jordan, Amman - Jordan.

Administrative Experience

Sept 2005 - August 2007: Vice Dean of Academic Research, Deanship of Academic Research, The University of Jordan, Amman - Jordan.

Sept 2003- August 2004: Vice Dean for Scientific Faculties, Faculty of Graduate Studies, The University of Jordan, Amman - Jordan.

Sept 1997 – August 2000: Chairman of Horticulture and Plant Protection Department, The University of Jordan, Amman - Jordan.

Honors and awards

- The University of Jordan Award for Distinguished Researchers for the year 2009.
- DFG short research visit from July -August 2009, Leibniz Hannover University. Germany.
- DFG short research visit from July -August 2008, Leibniz Hannover University. Germany
- DAAD short research visit from July -August 2005, BBA, Braunschweig. Germany.
- Hisham Hajawi Award for the year 1997 (Agricultural Sciences) for Distinguished Research.
- DAAD short visit from July-end of August 1996. Bonn University, Germany.
- Agricultural Book Festival Award for the year 1993 for the Book Home and Garden Pests. International Centre for agricultural development.
- Shouman Foundation Award for Arab Young Researchers for the year 1991 (Agricultural Sciences) for Distinguished Research. October 1991.

Teaching Experience

Courses taught:

Graduate level courses

- Advanced Fungal Diseases
- Field Crop Diseases
- Selected Topics in Plant Protection (Mushroom Science)
- Diagnosis of Plant Diseases
- Graduate Seminar
- Fungal Taxonomy

Undergraduate level courses

- Home and Garden Pests
- Plant Nematology
- Plant Pathology
- Undergraduate Seminar.
- Mycology
- Beneficial Fungi
- Fungal Plant Diseases
- Principles of Plant Protection

- Vegetable Crop Diseases
- Research in Plant Protection
- Integrated Pest Management
- Physiological plant Pathology
- Practical Training in Plant Pathology

Supervision of graduate students:

Supervisor or Co-Supervisor for **25** graduate students (Master and Ph. D. degree students) at The University of Jordan.

- Hanan Aref Hassan graduated on 14/7/2016. Ph. D. Degree Thesis. Identification, Molecular differentiation and developing of commercial cultivars from wild isolates of king Oyster Mushroom *Pleurotus eryngii* in Jordan.
- Ghina Al-Hmoud, graduated on 20/12/2012. Effect of different commercial mycorrhizal products on plant growth and Fusarium root rot of different vegetable crops.
- Nafi Khalaf AL MASAED. Examined on 11/8/2011. Impact of physical, chemical and microbiological properties of substrate on mycelial growth and yield of two *Agaricus* species.
- Shafer Arabiat graduated on 21/7/2004. Ph. D. Degree Thesis. Effect of treated wastewater on Fusarium wilt of tomato and stalk rot of sweet corn and host resistance.
- Kholoud Ananbeh graduated on 15/1/2003. Production of Oyster Mushroom on Different Agricultural Wastes Available in Jordan.
- Melkamu Ayalew graduated on 19/8/2002. The effect of *Glomus mosseae* and *Trichoderma harizanum* on Fusarium wilt (*Fusarium oxysporum ciceri*) of Chickpea.
- Issa Gandah graduated on 19/5/2002. Epidemiology and chemical control of bean anthracnose caused by *Colletotrichum lindemuthianum*.
- Adel Alabed graduated on 1/7/2001. Ph. D. Degree Thesis. Epidemiological studies on the cyst nematode *Heterodera latipons* on barely in Jordan.

- Monther Tahat graduated on 22/5/2001. Control of cucumber *Verticillium* wilt using the fungus *Glomus*.
- (Nihad Abu Gubah graduated on 28/5/2001). Co-supervisor. JUST.
- Ihsan Swaidat graduated on 24/12/2000. Control of *Verticillium Wilt* on Tomato by chemical–Induced Resistance.
- Awadeyah Abu Othman graduated on 24/5/2000. Co-supervisor. Effect of Vesicular–Arbuscular Mycorrhizae on Sorghum under Drought conditions.
- Mueen Abu Qamar graduated on 30/1/2000. Integrated control of *Verticillium Wilt* of olive in Jordan.
- Ibtihal Abu Obeid graduated on 7/10/1998. Control of green peach aphid *Myzus persicae* by the fungus *Verticillium lecanii* (Zimmerman) Viegas. Co-supervisor.
- Alya Al Shamy graduated on 5/4/1998. Response of the apple cultivar Ace Budded on MM111 and Seedling Rootstocks to Two Endomycorrhizal Fungi. Co-supervisor.
- Ahmad Al Shaik graduated on 4/4/1998. Integrated Control of *Sclerotinia* Stem Rot on Eggplant.
- Asad Abu Yahya graduated on 16/7/1997. Co-supervisor. Effect of seed treatment with fungicides on germination and establishment of wheat (Horani 27) free or infected with covered smut.
- Shaher Arabiat graduated on 11/5/1997. Physical and chemical control of *Fusarium* dry rot of potato in Storage.
- (Muwafaq Karajeh graduated on 13/5/1997). Control of *Verticillium Wilt* of Olive trees in Jordan.
- Manal Al-Essawi graduated on 24/12/1996. Epidemiology of Botrytis fruit rots on strawberries in high lands.
- Ziyad Wasfi Naser, September 1996. Epidemiology of *Verticillium* wilt of olive trees in Jordan.

□ Mohamad Rabah Katbeh, April 1993. The role of endomycorrhizae in improvement of barley productivity in arid-zone.

□ Ali Abu Laban graduated on 2/2/1991. Evaluation of three nematopagous fungi in controlling root knot nematode using animal and wheat grain as carrier substrates.

□ Elya Saba from Faculty of Science and graduated on 30/1/1991). Jordan Mushrooms, their ecology, distribution, classification and toxicity. Co-supervisor.

□ Jameel Jaafreh graduated on 15/10/1990. Epidemiology of powdery and downy mildew diseases on cucumber plants in Ghor El-Safi region.

□ Nofal Al-Ameiri graduated 1/8/1987. Interaction between vesicular–arbuscular mycorrhizal fungi and Fusarium root rot of tomato.

Member of examining committees for 59 graduate students (Masters and Ph.D. degree at The University of Jordan and JUST.

Membership in oral defense exam for the following Ph. D & master degree students.

1- Noor Abu Ruman. October 2023.

2- Huda Al-Hyari. December 2021. Evaluation of Fusarium crown rot disease (*Fusarium culmorum*) resistance in Jordanian Durum wheat landraces. M.Sc. thesis.

3- Mashoor Khawaldeh. 15/7/2020. Effect of endophytic fungal isolates on wheat aphid *Rhopalosiphum padi* (L.) (Hemiptera: Aphididae) under favorable and unfavorable conditions. Ph.D. thesis.

4- Loai Albatsh. Aug. 2017. Plant extracts as natural herbicides.

5- Khalifa abo Farag. Jan. 2017. Biological control of root rot disease using arbuscular mycorrhizal fungi and olive cake.

6- Ashraf Alhawamdeh. July 2016. Integrated pest management of the tomato leaf miner in Balqa governorate. Jordan. Ph.D. thesis.

- 7- Gharam abu Jaleel Examined on 28 April 2016. Efficacy of copper phosphonate on root knot nematode / *Fusarium* wilt complex on cucumber. M.Sc. thesis.
- 8-Ismael Nouns. January 2013. Water saving and pollution abatement for the olive industry in Jordan.
- 9- Jamila Edrees. July 2013. Biological control of powdery mildew (*Erysiphe cichoracearum*) on cucumber under protected agriculture conditions in Jordan Valley.
- 10- Samer Habash, May 2010. Effect of Calohos, magphos and phosphorus fertilizers on root knot nematodes Meloidogyne species.
- 11- Mahmoud Al-Khashashneh, December 2006. Potential biological control of charcoal root rot pathogen utilizing indigenous isolates of chitinase producer actinomycetes with antifungal activity. JUST University.
- 12- Mohamad Tahtamouni, May 2005. Biological control of the white cottony stem rot (*Sclerotinia*) on cucurbits utilizing actinomycetes isolates from different soils in Jordan. JUST University.
- 13-Maram Al-Azzam, May 2005. Response of pre-inoculated pepper and tomato with mycorrhizal fungi to irrigation with saline water and phosphorus application. JUST University.
- 14-Bilal Wreikat, March 2005. Detection and Identification of bacterial speck of tomato by polymerase chain reaction.
- 15- Bakir Abussamin, August 2004. Toxicity of certain insecticides to the cabbage aphid and its parasitoid and studying some biological aspects of the parasitoid.
- 16- Mahmoud Al-Khatib, April 2004. Determination and characterization of *Fusarium oxysporum* f.sp. *lycopersici* races in Jordan.
- 17- Ahmad Mahasneh, August 2004. A taxonomic study on the long-horned grasshoppers of Jordan (Orthoptera: Tettigonidae)

- 18- Muwaffaq Karajeh, August 2004. Identification, distribution and genetic variability of the root-knot nematodes (*Meloidogyne* spp.) in Jordan.
- 19- Farida Benzina, May 2004. Indigenous genotype of fluorescent *Pseudomonads* as potential biological control against *Verticillium dahliae* olive (*Olea europea* L.) wilt pathogen. JUST University.
- 20- Hassan Al-Osofee. April 2004. Relatedness among *Sclerotinia sclerotiorum* isolates and their virulence on cucurbit crop in Jordan Valley. JUST
- 21-. Reem Banihani, January 2004. Biodiversity of phytopathogenic *Erwinia* spp in the Jordan Valley. JUST University.
- 22- Rifaat Rawashdeh, August 2003. Conventional and molecular characterization of hydrolytic enzyme producing –*Streptomyces* isolated from forest soils and their potential to degrade agricultural waste. JUST University.
- 23- Ihab Abd Al-Raheem, July 2002. Bacteriological and molecular study of phytopathogenic *Pseudomonas syringae* pv . Isolated from Northern Jordan. Just University
- 24- Hasan Khattab, May 2001. Isolation, characterization and enhancement of lignin degrading enzymes produced by four isolates of basidiomycetes on olive pomace.
- 25- Haitham Naser, May 2000. Effect of Anti-insect and Polyethylene plastic covers on Sweetpotato Whitefly Population, Incidence of Tomato yellow leaf curl virus and Growth of tomato plants.
- 26- Raeda Hammad, May 2000. Influence of arbuscular mycorrhizal fungi on the response of tomato to salt stress. Just University.
- 27- Rabeeh Al-Araj, January 2000. Disease Development and Control of Apple Scab on Apple in Uplands of Jordan.
- 28- Samah Badawi, December 1999. Efficacy of certain non-fumigant nematicides as alternatives to methyl bromide for control of *Meloidogyne javanica* on tomato

- 29- Mahmoud Al-Khatib, December 1999. Study of wilt and root rot fungi of Stone – fruit Nursery Stocks in Jordan and their control. Ph. D. thesis
- 30- Mohammad Khader, July 1999. Post harvest fungal disease of Apple fruits and Evaluation of some Control Methods.
- 31- Hassan Rubeya, August 1999. Chemical and Biological control of the root-knot nematode, *Meloidogyne incognita*, on Date palm trees.
- 32- Mazen Ateyyat. Sep. 1999. Studies on elements of integrated management of citrus leaf miner, *phyllocnistis citrella* stain ton (Lepidoptera: Gracillariidae) on citrus in Jordan
- 33- Ibraheem Dabbour, May 1999. The nutritional value and protein quality of four edible mushrooms in Jordan.
- 34- Maram Al- Masaadeh. May 1999. Epidemiology of blackleg disease on potato in Jordan
- 35- Naif Bashabsheh, July 1998. Effect of soil Conditioners and plastic Mulches on the performance of, Ashuri, pistachio in Almuwaqar Area.
- 36- Muna Turaikhim. July 1998. Study of certain Ecological factors, and response of onion to *Thrips tabaci* lindeman (Thysanoptera: Thripidae).
- 37- Maysa Muhiar, July 1998. Black rot disease on cruciferae in Jordan: Sources of Inoculum, response of some Cabbage and Cauliflower Cultivars to the disease.
- 38- Aziz Awad Salameh. May 1998. Germination and Micropropagation of two Acacia Species (*Acacia raddiana* and *Acacia nilotica*) under Different levels of salinity and drought through tissue culture techniques.
- 39- Ibtihal Abu Obeid, October 1998. Control of green peach aphid by the fungus *Verticillium lecani*.
- 40- Ali Al-Thweib, April 1998. Studies of Inheritance of some fruit Characters in Eggplant Landraces *Solanum melongena*.L).
- 41- Talat Al-Salhi, April 1998. Identification of potato virus Y (PVY) Variants Affecting Pepper Cultivars (*Capsicum* Spp). In Jordan.

- 42- Rana Samara. November 1997. Reproduction potential, susceptibility to the infestation of some vegetables and broad bean cultivars *Vicia faba* and the Flight activity of black bean aphid *Aphis fabae* scopli (Homoptera : Aphididae).
- 43- Omar Al-Zyoud. July 1997. Occurrence and etiology of *Tinea versicolor* and *Tinea pedis* in Jordan.
- 44- Occurrence and etiology of *Tinea Versicolor* and *Tinea Pedis* in Jordan
- 45- Ihab Al-Ghabeish. May 1997. Survey of Agromyzid Leaf miners and their Parasitoids, population trends of the potato leaf miner, *liriomyza huidobrensis* (Blanchard) and life Cycle of the Parasitoid *Neochrysocharis Formosa* (Westwood) in Jordan.
- 46- Khaleel Amr. Oct. 1995. Biological studies of the predatory thrips: *Scolothrips longiconis* (Preisner) feeding on *Tetranychus cinnabarinus*
- 47- Haleemeh Husam Saeed, July, 1995. Thesis title: Effectiveness of soil solarization against *Meloidogyne javanica* and *Heterodera schachtii*.
- 48-Ibtisarn Younis, June, 1995. Thesis title: loss assessment due to *Meloidogyne javanica* on eggplant and okra in Central Jordan Valley.
- 49- Adlee Tameemi , February, 1995. Thesis title: Fusarium wilt and its interaction with root knot nematode on watermelon in Jordan.
- 50- Sameer Abdeljabar, October 1994. Thesis title: Population trends of the mediterranean fruit fly on peaches and other deciduous fruit trees in the Vicinity of Amman.
- 51- Rami Abdel Fattah, August 1994. Survey of Fungal pathogens transmitted by wheat seeds in Jordan.
- 52- Iyad Takroori, December 1993. Identification and characterization of viruses causing fruit necrosis of tomato in Jordan Valley.
- 53- Mohamad Al-Qasim, August. 1992. Occurrence and Distribution of the phytonematode *Tylenchulus semipenetrans* in citrus groves in Jordan.
- 54- Muna Mashal, August 1990. Some biological and ecological aspects of cabbage aphid on cauliflower.

55- Khasan Migdadi, September 1989. Thesis title: Insect pests and Fungal diseases of cucumber in plastic houses in the Central Jordan Valley.

56. Abeer Abu Shirbi. April 1989. Isolation and identification of some broad bean mosaic viruses in Jordan.

57- Hani Al-Majali, October 1987. Screening methods for testing responses of *faba bean* cultivars and species to chocolate leaf spot.

58-Ismail Saadoun, December. 1986. Isolation and characterization of the genus *Streptomyces* as soil actinomycetes from Jordan Valley.

59-Abdul-Jalil Hamdan, May 1986. Field studies on population and control of green peach aphid in the Central Highlands of Jordan.

Participation in conferences/ workshops

I have participated and presented scientific papers at the following conferences and workshops.

- The First International Scientific Congress, “Studies in Economics and Environment: Visions and Practice”, Istanbul 1-6 March 2023.
- Entrepreneurship education at Universities in Jordan: Current state & perspectives. DAAD discussion night, Amman. December 8th 2022.
- 13th Arab Congress of Plant Protection, 16 -21 November 2022, Hammamet, Tunisia.
- 8th Economic conference, Economics of Energy, Water, Food security and Natural resources. 24/9/2022. Organized by Jordan Society for Scientific Research, Entrepreneurship, and Creativity. Petra University, Jordan.
- Neglected and under-utilized wild mushrooms. On 09 May 2022 at 12:00-01:30. Joint Zoom Meeting. Online lecture for AARINENA. (Association of Agricultural Research Institutions in the Near East and North Africa
- 62nd German Plant Protection Conference on Wednesday, 22 September 2021 from 7.00 am to 8.30 pm and Participation at the 56th

General meeting of the DPG in 2021 at the same time. Organized by German Phytomedical Society. Meeting <https://zoom.us/j/94739718878?>

□ AURORA Webinar Series under the title “Socio-ecological Metabolisms and Sustainable Governance of Mediterranean Food Systems” on September 15, 2021 at 5 PM CET. Four years project funded by DAAD in the MENA region

□ Rapid, Simple Diagnostic Method for Insect-Transmitted Plant Pathogen and Insect Identification. The American Phytopathological Society. July 8, 2021, Online Tri-Society Virtual Conference.

□ Regional Conference on High Level Renewable Energy and Energy Efficiency, Master Courses/HEBA" Erasmus Plus project of the European Union. July 6, 2021, Egypt; Austria; Lebanon, Jordan, Cyprus (10:00 AM – 2:00 PM). Virtual.

□ Tomato brown rugose fruit virus, 20/6/2021. Jordan. Virtual.

□ One Earth Soil & Root Health Forum. Diseases transmitted through the soil and the importance of normal and healthy soil. 1 March 2021, 9:00 – 11:30 CET via ZOOM. Organized by Syngenta Foundation for Sustainable Agriculture.

□ The Sixth International Economic Conference, Jordan Economy after Corona-Endemic. Organized by Jordan Society for Scientific Research, Entrepreneurship, and Creativity on 31/10/2020. Via Microsoft Teams.

□ The Ninth conference on scientific Research in Jordan. Jordan Society for Scientific Research, Entrepreneurship, and Creativity. Amman, in cooperation with The University of Jordan. 9 November 2019.

□ Third INTERNATIONAL CONFERENCE ON AGRICULTURE, FOOD, VETERINARY AND PHARMACY SCIENCES. Trabzon in Turkey on April 16 – 18, 2019.

□ II. International Eurasian Agriculture and Natural Sciences Congress. Held in Baku- Azerbaijan from 11-15 September 2018.

□ The Eighth Scientific Agricultural Conference, ESAC-2018, Karak, Mutah University, Jordan, October 15 -17, 2018.

- Twelfth Arab Congress of Plant Protection, Hurghadah-Egypt, 4-10/11/2017
- 6th International Turkish Conference on Plant Protection 4-9/9/2016
- 8th international conference of plant pathology–Berlin, from 24-28/8/2015. Germany
- Restoring Degraded Ecosystems: Regional and International perspectives. Royal Botanic Garden, 30 March 2015, Jordan
- The Second International Economic Conference. Jordan Society for Scientific Research. Amman. Middle East University. 14 November 2015.
- Eleventh Arab Congress of Plant Protection. 9-13/11/2014.
- Sixth International conference on Water resources and Environment, 27-30/10/2014. Istanbul – Turkey.
- **Third World** Istanbul solid waste, water and waste water congress. 22-24 May 2013. Istanbul, Turkey.
- First International Conference of Bio-Processing and Application of microbial Biotechnology in Agriculture. November 1-3, 2010. Cairo. Egypt.
- Second International Translation Conference. Arab Thought Foundation. 27-28 April 2007. Amman, Jordan
- DAAD Alumni Conference (Perspectives of German Jordanian Academic Cooperation), Amman, Jordan, 22-23 November 2006.
- 46th Scientific week: Conference on Sustainable agricultural development and food security. 27-30 November 2006, Lattakia, Syria
- Fifth International Symbiosis Society Congress. August 4th-10th, 2006. Vienna University, Austria.
- The 12 th International Conference of the Arab Biologists Union. 19-24 November 2005. Hudaydah University, Arab Republic of Yemen.

- Second conference on scientific research in Jordan, Amman, Society of friends of Scientific research at universities of Jordan. November 12, 2005
- International conference on biotechnology, Tunisia, Hammamet, 19-22-Dec.2004.
- Environment and Sustainable development,44 th Scientific week, Humos, Syria,22-25, Nov, 2004
- Second Saudi conference of sciences. Jeddah. Kingdom of Saudia Arabia, 15-17 March 2004.
- Second international conference of horticultural sciences. Kafr Shaik. Egypt, 14-18 Sep.2002.
- Biotechnology conference, Susah, Tunisia.8-12. Feb. 2001.
- International conference on Mushroom science and cultivation. Maastricht Holland,15 -19-May,2000
- Seventh Arab conference on plant protection sciences.Amman, Jordan, 22-26 Oct.2000.
- Applications of Biotechnology in Agricultural. Sfax, Tunisia, 5-7 March .1999.
- Eighth Arab Conference on Biological Sciences. Amman, Jordan.8-11 November.1997.
- Sixth Arab Conference on Plant Protection sciences. Beirut. Lebanon.27-31 October 1997.
- Italian plant pathologist meeting. May 1994. Montesilvano-Italy.
- Workshop on Irrigated Agricultural Research Strategy. NCART. 1994. January Amman, Jordan.
- Workshop on Modern Irrigated Agriculture in Arab World. 1993. October, Amman, Jordan.
- Workshop on tomato yellow leaf curl virus and curly top virus. September. 1993. Amman. Jordan.

- First Jordan Conference on Plant Protection. University of Jordan. Amman, September. 1993 Jordan.
- Workshop on the policy of environmental problems in developing and industrial countries. April, 1992, Jordan Society to control environmental pollution. Amman, Jordan.
- Fourth Arab Plant Protection Conference. October, 1991, Cairo, Egypt.
- First International Conference on Soil Solarization February, 1990 Amman, Jordan.
- Third Arab Plant Protection Conference, October, 1988, Al-Ain, United Arab Emirates.
- First national symposium on horticulture in Jordan and neighboring countries, October, 1988, University of Jordan, Amman, Jordan.
- Second Symposium on nuclear reactors usage in teaching, training and applied technologies. October, 1987. University of Jordan Amman. Jordan
- Symposium on field crops and agricultural systems in rainfed areas in Jordan and neighboring countries. Jordan 1988.
- Epidemiology. December, 1987. Bristol. Britain.
- Second Arab Plant Protection Conference. March, 1986, Damascus, Syria.
- The first workshop on the use of solar energy in agricultural purposes, December, 1985, Baghdad, Iraq.

Membership of Societies

- 1- German Phytomedicine Society (DFG), 1981 up-to-date.
- 2- Arab Plant Protection Society. 1985 up-to-date.
- 3- Jordan Society for Environmental Protection. 1990 until now.

4- International Symbiosis Society (ISS).2000 until now.

5- Jordanian Society of Scientific Research.

Journal Editorial Board Membership

- Food Science and Human Wellness (From 2012 until now)
- Jordanian Journal for Agricultural Sciences
- Dirasat (Agricultural Sciences) 2005-2007

Peer Review Contribution

Manuscripts have been reviewed for the following scientific journals

- Jordanian Journal for Agricultural Sciences
- Food Science and Human Wellness
- Plant Ecology
- Brazilian J of Plant Pathology
- Jordanian Journal of Biological Sciences
- Mutah Journal for Research and Studies.
- Arab Journal of Plant Protection until March 2021.

Research interests

1. Survey and evaluation of control methods for fungal diseases of banana in Jordan Valley.
2. Recycling of agricultural wastes and minimizing environmental pollution by using non-chemical control methods.
3. Use of endomycorrhizal fungi to improve growth of different leguminous crops especially under stress conditions.
4. Epidemiological studies on powdery mildew of cucumber, botrytis rot of strawberry and *Verticillium* wilt of olives.
5. Use of endomycorrhizal fungi to control root knot nematodes.

6. Biological control of *Convolvulus arvensis* in fruit tree orchards.
7. Survey of wild mushrooms.
8. Control of soil-borne pathogens by soil solarization.
9. Biological and chemical control of fungal diseases especially *Verticillium* wilt of olive, *Fusarium* and grapevine dieback.

Research Projects Submitted and Funded

Grants

1. Survey and evaluation of control methods for fungal diseases of banana in Jordan Valley. Scientific Research Support Fund. Ministry of Higher Education. Serial Number of Proposal: Agr/1/9/2014. (August 2015-August 2018). 62000 Jordan Dinar.
2. 2011-2012: principal investigator, study on wild mushrooms of Jordan. 50,000 Jordan dinars. Royal Botanic Garden. Amman, Jordan.
- 3-2008-2009: principal investigator, study on Cyprus mushrooms, their ecology, distribution, classification and toxicity. Grant for 4.5 months. Near Yeast University. Cyprus.
- 4-2008-2009: principal investigator, study on maximizing the efficiency of using olive cake as organic fertilizer for mycorrhizal plants. Grant for 4 months (3months in 2008 and 1 month in 2009). DFG, Hannover, Germany
- 5-2005: principal investigator, study on PCR screening of *Eutypa* isolates of grapevine in Jordan, DAAD, Braunschweig, Germany.
- 6-2001-2003: principal investigator, Study on *Eutypa* dieback of grapevine in Ajloun, 8500 J.D. Deanship of Academic Research. University of Jordan.
- 7-1996-1998: principal investigator, Evaluation of different rootstocks of olive for *Verticillium* wilt. 3450 J.D, Deanship of Academic Research. University of Jordan
- 8-1995: principal investigator, control of chickpea and lentil wilt by local isolates of *Glomus mosseae*,

9-1993-1995: co-investigator, survey of wild mushrooms in the university campus, taxonomy and nutritional value, Jordan University of Science and Technology, 3000 \$.

10-1992-1993: co-investigator, mycorrhizal infection effect on growth and nutrient uptake in wheat grown under limiting soil moisture and phosphorus, Jordan university of science and technology, during my sabbatical leave, 6000 \$.

11-1990-1992: principal investigator, biological control of *Convolvulus arvensis* University of Jordan, 1500 J. D.

12-1987-1989: co-investigator, study on the interaction between endomycorrhizal fungi and root knot nematode on some vegetables, University of Jordan, 10000 \$.

13-1985-1987: principal investigator, study on endomycorrhizal fungi on crop plants in dry lands, University of Jordan, 6000 \$.

14-1983-1985: principal investigator, study on endomycorrhizal fungi on vegetables in irrigated lands. University of Jordan, 12000 \$.

Other Scientific Activities Inside and Outside the University

- Lecture titled (Survey and evaluation of control methods for fungal diseases of banana in Jordan Valley) organized online by Agricultural Engineers Association, Branch Deir Alla on January 8, 2021.
- Member of the specialists committee organized by The Ministry of Agriculture for updating the fungal lists of quarantine significance on 8/10/2020.
- Scientific activity on 13 March 2019 for the book publicity titled Biodiversity of wild mushrooms in Jordan. The University of Jordan, Faculty of Agriculture. Amman, Jordan.

- Reviewer for some foreign, Arab and local journals

- Faculty representative in the counseling and guidance office, University of Jordan, Amman

- Seminar on toxic mushrooms. Ajloun secondary school. March, 1995
- Teaching plant pathology course in Jordan University of Science and Technology during the first semester in the academic year I 1993/1994.
- Delegate representative for Arab Society for plant protection during the period from 1989 to 1991.
- Sabbatical leave at the Jordan University of Science and Technology during the academic year 1992 / 1993.
- Member of the steering committee for research strategy for the irrigated agriculture subsector, 1993 -1994.
- Academic advisor for the first year students during the academic years 1989 / 1990 and 1990 / 1991.
- Member of the first Jordan plant protection conference committee. 1989, Jordan.
- Member of the local organizing committee for the first international conference on soil solarization, Jordan. 1990.
- Agenda preparation in 1991 (Faculty of Agriculture, University of Jordan).
- Member of the preparation committee for second international exhibition for agricultural technology. Amman 1990.
- Making field demonstrations on soil solarization in Wadi El-yabis from July 1989 to Feb. 1990.
- Preparation of course outlines of Mycology course for Al-Qods University. October. 1989.
- Training course in plant protection for agricultural engineers from Yamen, July, 1990, 1986 1988.
- Extension programs for the tanners during Ajloun Broadcasting Radio.
- Open discussions on plant protection-Amman Radio On-Air. 1988, 1992 1993.

- Reports on plants and food samples for plant disease identification (Extension service for farmers through the technical services Centre).
- Reports on establishment of botanical garden in Jordan University of Science and Technology. 1992/1993.
- Reports on the University farm in Jordan Valley for several years.
- Extension seminars for farmers in Jerash about protection of olive and grape from pests. April, 1987.
- Instructor for the Volunteers campus in the University farm in Jordan Valley, Jan. 1986.
- Faculty seminars on practical aspects of endornycorrhizal fungi, Jordan University, Amman.

WORKSHOPS, TRAINING COURSES

Attendance of the following training workshops.

- **Using teams for online learning---16/6/2021**

مركز المصادر التعليمية المفتوحة والتعليم المدمج - د. ريم الفايز

- **Using Moodle for interactive learning---28/6/2021**

مركز المصادر التعليمية المفتوحة والتعليم المدمج - د. ريم الفايز

- **Designing content for Blended Learning courses. 1/7/2021**

د. نمر ابو سليم. مركز المصادر التعليمية المفتوحة والتعليم المدمج



**Sharing Several Papers in conference
proceedings**

Brochures (3)