

Curriculum vitae

Dr. Firas. M. Abu-El Samen

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PERSONAL

Date of Birth: November 14, 1968
Place of Birth: Salt-Jordan
Citizenship: Jordan
Marital Status: Married with four children

Education

Post Doctorate , Dept of Plant Pathology, Michigan State University	2003-2004
Post Doctorate , Dept of Plant Pathology, North Dakota State University	2001-2003
Ph.D. Plant Pathology , Dept of Plant Pathology, North Dakota State University	1997-2001
M.Sc., Plant Pathology , University of Jordan, Amman	1990-1993
B.Sc. Plant Protection , University of Jordan, Amman,	1986-1990

Employment and administrative positions

1/9/2017-Present	Chairperson and Associate professor of plant pathology, Dept. of Plant Production Sciences, Jordan University of Science and Technology -Irbid-Jordan.
1/9/2016- 31/7/2017	Assistant professor of plant pathology, Department of Arid Land Agriculture, College of Food and Agriculture, United Arab Emirates University, UAE. (on unpaid leave from JUST).
17/8/2014- 31/8/2016	Department Chairperson and Assistant professor of plant pathology, Department of Arid Land Agriculture, College of Food and Agriculture, United Arab Emirates University, UAE. (on unpaid leave from JUST).

1/9/2013- 31/7/2014	Chairperson , Dept. of Plant Production Sciences, Jordan University of Science and Technology -Irbid-Jordan.
2008-2009 2006-2007	Assistant Dean , Faculty of Agriculture, Jordan University of Science and Technology -Irbid-Jordan
25/7/2006- present	Assistant Professor and Associate professor, Dept. of Plant Production Sciences, Jordan University of Science and Technology -Irbid-Jordan
9/2005-7/2006	Full time lecturer- Dept. of Plant Production Sciences, Jordan University of Science and Technology -Irbid-Jordan
2004 -2005	Visiting Assistant Professor, Dept. of Plant Pathology, Michigan State University, East Lansing, MI, USA.
2003- 2004	Visiting Research Associate, Dept. of Plant Pathology, Michigan State University, East Lansing, MI, USA.
2001-2003	Post-Doctoral Research Associate, Dept. of Plant Pathology, North Dakota State University, Fargo, ND, USA.
1997 - 2001	Graduate Research Assistant, Dept. of Plant Pathology, North Dakota State University, USA.
1994 - 1996	Research Associate, National Center for Ag. Res. and Extension, Baqa, Jordan.
1993 - 1994	Crop and Research Consultant, Jordan Valley Ag. Company, Amman, Jordan
1991- 1993	Graduate Research Assistant, Dept. of Plant Protection, University of Jordan, Amman

Memberships in Scientific Societies

American Phytopathological Society (APS), USA. (Since 1998).

International Society for Molecular Plant-Microbe Interactions (since 2000).

The Potato Association of America (PAA), USA.

International Society for Pest Information (ISPI).

Arab Society of Plant Protection (ASPP).

Publications and Reports List

Ph.D. Thesis

Abu-El Samen (2001). Virulence and Genotypic Variability Among Asexual Progenies of *Phytophthora infestans*. Ph.D. thesis, North Dakota State University, Fargo, ND. USA, 145 pp.

M.Sc. Thesis

Abu-El Samen (1993). Epidemiology and control of tomato bacterial speck (*Pseudomonas syringae* pv. *tomato*) in Jordan Valley. MS. Thesis, University of Jordan, Amman, Jordan 75 pp.

SELECTED REFEREED PUBLICATIONS:

1. Goussous, S. J., Assad, M, Tahhan, R.A. **Abu El-Samen, F.M.**, 2018. Biological control of stem rot (*Sclerotinia sclerotiorum*) by indigenous *Bacillus subtilis* isolates. (submitted)
2. Saeed, E., Sham, A., El-Tarabily, K., **Abu El Samen, F.**, Iratni, R., and AbuQamar, S. F. 2016. Chemical control of black scorch disease on date palm caused by the fungal pathogen *Thielaviopsis punctulata* in United Arab Emirates. *Plant Dis.* 100:2370-2376.
3. **Abu-El Samen, F.M.**, Goussous, S.J., Al Shudifat A., and Makhadmeh, I.M., (2016). Reduced sensitivity of tomato early blight pathogen (*Alternaria solani*) isolates to protectant fungicides, and implication on disease control. *Archives of Phytopathology and Plant Protection.* 49:120-136. DOI:10.1080/03235408.2016.1160641
4. **Abu-El Samen, F.M.**, Goussous, S., Jendi, A., Makhadmeh, I. 2015. Evaluation of tomato early blight management using reduced application rates and frequencies of fungicides applications. *International Journal of Pest Management.* 61:320-328. DOI: 10.1080/09670874.2015.1059969
5. Goussous, S. J., Mas'ad, I.S, **Abu El-Samen, F.M.**, Tahhan, R.A. 2013. *In vitro* inhibitory effects of rosemary and sage extracts on mycelia growth and sclerotial formation and germination of *Sclerotinia sclerotiorum*. *Archives of Phytopathology and Plant Protection*, 46:890-902. DOI:10.1080/03235408.2012.753708
6. **Abu-El Samen, F. M.** and Al-Bdour, N. M. (2011). Prevalence of fungal and fungus-like diseases on potato seed tubers imported from Europe to Jordan. *OEPP/EPPO Bulletin*, 41: 445-452. DOI: 10.1111/j.1365-2338.2011.02514.x
7. Goussous S.J., **Abu El-Samen, F.M.**, and Tahhan, R.A. (2010). Antifungal activity of several medicinal plants extracts against the early blight pathogen

(*Alternaria solani*). Archives of Phytopathology and Plant Protection 43: 1746-1758. DOI: 10.1080/03235401003633832

8. Kirk, W., A. Rojas, P. Tumbalam, E. Gachango, P. Wharton, **F. Abu-El Samen**, D. Douches, J. Coombs, C. Thill, and A. Thompson. 2010. Effect of different genotypes of *Phytophthora infestans* (Mont. de Bary) and temperature on tuber disease development. Amer. J. Potato Res. 87: 509-520. DOI: 10.1007/s12230-010-9156-1
9. Kirk, W. W., **Abu-El Samen, F.**, Tumbalam, P., Wharton, P.S., Douches, D., Thill, C.A., and Thompson, A. 2009. Impact of different US genotypes of *Phytophthora infestans* on potato seed tuber rot and plant emergence in a range of cultivars and advanced breeding lines. Potato Research 52: 121-140. DOI: 10.1007/s11540-009-9125-6.
10. Kirk, W.W., **F. M. Abu-El Samen**, J.B. Muhinyuza, R. Hammerschmidt, D.S. Douches, C. A. Thill, H.Groza and A. L. Thompson (2005). Evaluation of potato late blight management utilizing host plant resistance and reduced rates and frequencies of fungicide applications. Crop Protection, 24:961-970. DOI:10.1016/j.cropro.2004.12.016.
11. **Abu-El Samen F. M.**, Kirin Oberoi, Raymond J. Taylor, Gary A. Secor, and Neil C. 2005. Inheritance of Mefenoxam Resistance in Selfed Populations of the Homothallic Oomycete *Phytophthora erythroseptica* (Pethybr.), cause of pink rot of potato. American Journal of Potato Research, 82: 105-115. DOI: 10.1007/BF02853647
12. **Abu-El Samen, F. M**, Secor, G. A., and Gudmestad, N. C. 2003. Variability in virulence among asexual progenies of *Phytophthora infestans* (Mont.) DeBary. Phytopathology, 93:293-303. DOI: http: 10.1094/PHYTO.2003.93.3.293
13. **Abu-El Samen, F. M**, Secor, G. A., and Gudmestad, N. C. 2003. Genetic variation among asexual progenies of *Phytophthora infestans* detected with RAPD and AFLP markers. Plant Pathology 52: 314-325. DOI: 10.1046/j.1365-3059.2003.00858.x
14. **Abu-El Samen, F. M., and Khlaif, H.M. 1999.** Epidemiology and Control of Bacterial Speck of Tomato in the Jordan Valley. Dirasat (Agricultural Sciences) 26, 205-215.

SELECTED PUBLISHED ABSTRACTS

1. **Abu-El Samen, F. M**, Gudmestad, N. C and Secor, G. A. 2000. Virulence variation in a single zoospore population of *Phytophthora infestans*. Phytopathology 90: S1.

2. **Abu-EL Samen, F. M.**, Secor, G. A. and Gudmestad, N. C. 2002. Analysis of genetic variability among asexual progeny of *P. infestans* using virulence, RAPD and AFLP markers. *Phytopathology* 92: S137.
3. **Abu-El Samen F. M.**, Oberoi, K., Taylor, R., Secor, G.A., and Gudmestad, N. C. (2004). Inheritance of mefenoxam resistance in two generations of *Phytophthora erythroseptica* (Pethybr.). *Phytopathology* 94: S 156.
4. **Abu-El Samen F. M.**, W. W. Kirk and R. Hammerschmidt. (2004). Susceptibility of tubers from potato varieties and advanced breeding lines to different genotypes of *P. infestans* at three storage temperatures. *Phytopathology* 94: S2.
5. Kirk, W. W., Muhinyuza J. B., Douches, D. S., Hammerschmidt, R., and **Abu-El Samen F. M.** 2004. Potato Late blight control incorporating host plant resistance and managed fungicide application. *Phytopathology* 94: S54.
6. Kirk, W.W., Rojas, A., Abu-El Samen, F., Tumbalam, P., Wharton, P., Douches, D., Thill, C.A., Thompson, A. 2009. Impact of different US genotypes of *Phytophthora infestans* on potato seed tuber rot and plant emergence in different cultivars and breeding lines. *Phytopathology* 99: S64.
7. Kirk, W.W., ROJAS, A., Douches, D., Coombs, J., Tumbalam, P., Abu El Samen, F. 2009. Effect of different genotypes of *Phytophthora infestans* and temperature on tuber disease development of advanced breeding lines. *Phytopathology* 99: S65.
8. **F. M. Abu-El Samen**, A. M. Al Shudifat. (2011). Sensitivity of tomato early blight isolates (*Alternaria solani*) from Jordan to mancozeb, chlorothalonil and azoxystrobin fungicides. *Phytopathology* 101: S2.

TECHNICAL REPORTS AND EXTENSION PUBLICATIONS (NON-REFERRED PUBLICATIONS)

Gudmestad, N. C., Secor, G. A., Taylor, R., Peterson, D., Scholz, U., **Abu-EL Samen, F.**, Pasche, J., and Rivera, V. 2001. NDSU Potato Pathology Annual Report 2001, Foliar Fungicide, In Furrow and Seed Treatment Trails. Dept. of Plant Pathology, North Dakota State University, Fargo, ND. 51pp.

Gudmestad, N. C., Secor, G. A., Taylor, R., Peterson, **Abu-EL Samen, F.**, Pasche, J., and Rivera, V. 2002. NDSU Potato Pathology Annual Report 2002, Seed Treatment, In-Furrow and Foliar Fungicide Trails. Dept. of Plant Pathology, North Dakota State University, Fargo, ND. 47pp.

William Kirk, Phillip Wharton, Ray Hammerschmidt, **Firas Abu-El Samen** and Dave Douches. 2004. Michigan Potato Diseases. Late blight. Extension bulletin. Michigan State University Extension. 8 pp. MSU extension publications.

W.W. Kirk, **F. Abu El-Samen**, D.S. Douches, C. Thill, J. Jang and A. Thompson. 2004. Host Plant Resistance and Reduced Rates and Frequencies of Fungicide Application to Control Potato Late Blight. Michigan State University Agricultural Experiment Station, Michigan Potato Industry report, East Lansing, MI.

Willie Kirk, **Firas Abu-EL Samen**, Ray Hammerschmidt, and Dave Douches. 2004. Evaluation of Tuber Late Blight Response of potato cultivars and advanced breeding lines and their potential to reduce seed-borne epidemics of late blight. Michigan State University Agricultural Experiment Station, Michigan Potato Industry report, East Lansing, MI, USA.

F. Abu El-Samen, R. Hammerschmidt, W. W. Kirk, R. L. Schafer and D. Berry. 2005. IN-FURROW AT PLANTING TREATMENTS FOR CONTROL OF COMMON SCAB IN POTATO, 2005. Michigan State University Agricultural Experiment Station, Michigan Potato Industry report, East Lansing, MI, USA, 78-80 pp.

F. Abu-El Samen and K. Masanat. 1997. Olive knot in Jordan. Extension bulletin, NCARTT, Ministry of Agriculture, Amman, Jordan.

Professional Meetings, Conferences and Workshops Attended.

- American Phytopathological Society North Central Division Meeting, 1998, Ames, Iowa.
- Potato Association of America Annual Meeting, 1998. Fargo, ND.
- American Phytopathological Society Annual Meeting, 2000. New Orleans, Louisiana.
- American Phytopathological Society North Central Division, 2001. Manhattan, Kansas.
- American Phytopathological Society Annual Meeting 2002. Milwaukee, Wisconsin.
- *Phytophthora* Molecular Genetics workshop 2002. Milwaukee, Wisconsin.
- American Phytopathological Society North Central Division Meeting, 2003. East Lansing, Michigan.
- American Phytopathological Society Annual meeting 2004. Anaheim, California.
- PAA/Solanaceae 2006 Conference (Genomics meet biodiversity), July 23-27, Madison, WI, USA (1 poster presented).
- First International Conference on Genetically Modified Food, 2006, Amman, Jordan.
- International Conference on Intellectual Property Rights in Agriculture, 2007, Amman, Jordan.
- International Conference on Alternative Energy, 2008. Amman, Jordan.

- American Phytopathological Society Annual meeting, Portland, Oregon, USA. Aug.1-5/2009.
- The Regional workshop for civil society organizations in the Arab region in preparation to Rio summit, Beirut, Oct. 12-14 /2011.
- First Arab-American Frontiers of Science, Engineering, and Medicine symposium, Kiewit, October 2011.
- American Phytopathological Society Annual meeting 2011. Honolulu, Hawaii, August 6–10, 2011.
- High Technology in Agriculture workshop (plant factory), Tokyo University of Agriculture and Technology (December 13 to 20th, 2014), Tokyo, Japan.
- Global Forum for Innovations in Agriculture, 2015 and 2016, Abu-Dhabi, UAE.

PROFESSIONAL, ACADEMIC, AND ADMINISTRATIVE SERVICES:

Served as external reviewer of papers submitted to the following research journals: Plant Disease, Canadian Journal of Plant Pathology, Phytopathology, American Journal of potato research, Potato Research, Crop protection, European Journal of plant pathology, Jordan Journal of Agricultural sciences., Mutah Journal for Research, and Dirasat -University of Jordan.

Committees

- Member and chair of many committees at the University, Faculty and Department levels including: Committee for Strategic Planning, Curriculum Committee, Graduate Students Committee, Scientific Research Committee,
- Web site development committee at JUST.
- Member of University Council (JUST) for 2006-2008.
- JUST representative in the biosafety committee (regulations and bylaws for genetically modified crops in Jordan).

FINANCIAL SUPPORT (Research Grants awarded, 2002-2018)

Abu El Samen F. M., Zuhdi K.M, Samarah N. Makhadmeh I. M. Albalasmeh. A. 2018. "Establishment of Hydroponic and Postharvest Training unit at Jordan University of Science and Technology". Joint project with Eco-consult Corp. 200,000\$

Firas Abu El Samen, 2014. Molecular detection of Witches'-Broom Disease of Lime (*Phytoplasma aurantifolia*) using real time PCR and integrated disease management in UAE. \$135,000.

Firas Abu El Samen, 2009. The effect of the application frequency and doses of mancozeb and azoxystrobin on the management of tomato early blight (*Alternaria solani*). \$5,640.

Firas Abu-El Samen. 2008. Survey of fungal and fungi-like diseases of imported seed-potato tubers to Jordan. Jordan University of Science and Technology. \$4,500.

Firas Abu-El Samen. 2008. Sensitivity of tomato early blight isolates (*Alternaria solani*) from Al-Mafraq to Mancozeb, Chlorothalonil and Azoxystrobin fungicides. Jordan University of Science and Technology, \$5, 640.

Firas Abu-El Samen and Raymod Hammerschmidt. Role of oxalate oxidase in defense against dollar spot pathogen (*S. homoeocarpa*) in creeping bentgrass. Project GREEN (Generating Research and Extension to meet Environmental and Economic Needs), Michigan State University. \$34,000.

Firas Abu-El Samen, Raymond Hammerschmidt, and William W. Kirk. Investigating the mechanisms involved in potato common scab (*Streptomyces scabies*) control by soil moisture management. USDA/ARS. June 2004-June 2005. \$24,000.

W.W. Kirk and Firas Abu-El Samen. Determining critical temperature thresholds for survival of mycelium of *P. infestans* genotypes. USDA/ARS. June 2004-June 2005. \$60,490.

Firas Abu-El Samen, Neil Gudmestad and Gary Secor. Virulence and Genotypic Variation in Single Zoospore Populations of *P. infestans*. USDA/ARS. 5/2003- 5/2004. \$58,000.

Firas Abu-El Samen, Neil Gudmestad and Gary Secor. Virulence and Genotypic Variation in Single Zoospore Populations of *P. infestans*. USDA/ARS. 5/2002- 5/2003. \$58,000.

Teaching Experience

(Courses developed and taught at Jordan University of Science - and technology (JUST) and United Arab Emirates University (UAEU))

Number
Of times
taught

Course Title and Number

Undergraduate Courses

1. Introductory Plant pathology (PP441; PP343)	12
2. Plant pathology laboratory	12
3. Introductory Plant Sciences (PP205)	4
4. Plant Sciences Laboratory	2
5. Plant Production Seminar (PP491)	5
6. Home Gardens (University General Education) PP200	4

Graduate Courses

7. Advanced Plant Pathology (PP745)	7
8. Pests of Field Crops (PP741)	2
9. Clinical Plant Pathology (Plant disease Diagnosis) PP746	2
10. Plant Microbe Interactions (PP754)	1
11. Selected topics in plant protection (PP794)	2
12. Graduate Seminar (PP791)	3

Graduate Students supervision:

-Supervised 5 M.Sc. students.

-Courses Taught at United Arab Emirates University (UAEU)

Course Title and Number

Number Of
times taught

Undergraduate Courses

1. Natural Resource (ARAG-220-General Education)	4
2. Pesticides (ARAG-439)	3
3. Internship	4

Graduate Courses

4. Concepts & Systems of Plant Protection and Pest Management	1
5. Graduate Seminar	2

References

Prof. Saeb Khresat

Professor of Soil Science

President of Jordan University of Science and Technology

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Dr. Ibrahim M. Makhadmeh

Associate professor of Vegetable Production and Physiology

Vice Dean, Faculty of Agriculture

Jordan University of Science and Technology.

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Prof. Hail K. Shannag

Professor of Entomology

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Prof. Hani Z. Ghosheh

Professor of Weed Science

South Dakota State University

SDSU Agronomy, Horticulture, and Plant Science Dept

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