

Dr. Khalid M. Al-Absi

Professor of Plant Physiology and Fruit Trees

Dept. of Plant Production

Faculty of Agriculture

University of Mutah

Jordan

Personal data

Name: Prof. Dr. Khalid Mousa Ali Al-Absi

Nationality: Jordanian.

Gender: Male

Marital status: Married.

No. of children : 4

Present position: Prof. at Dept. of Plant Production, Faculty of Agriculture, University of Mutah.

Research interest:

Fruit trees, Stress physiology, Using of low quality water in irrigation, Plant propagation, Plant growth regulators, Organic farming, Postharvest physiology.

Address of contact:

Dept. of Plant Production- Faculty of Agriculture

University of Mutah. Al-Karak-Jordan

P.O.Box 7, Postal code 61710. Fax: +962 3 2323154

Mobile: + 962 79 5289068

E. Mail : absikhal@mutah.edu.jo or khalidabsi@yahoo.com

Educational background

- **B. Sc.** Plant Production
Department of Plant Production. University of Jordan
January, 1990, Grade 81.3%.
- **M.Sc.** Horticulture / Pomology
Faculty of Graduate Studies. University of Jordan

January, 1993, Grade: 83.3%.

Title of M. Sc. Thesis: "Flower bud initiation, thinning and fruiting of 'Early Crest' peaches as affected by GA₃".

- **Ph.D.** Horticulture / Stress Physiology

Faculty of Graduate Studies. University of Jordan

April, 2000, Grade: 3.8 /4.

Title of Ph.D. thesis: "Growth response of two olive cultivars to salinity stress".

- **Post doctorate** University of Kentucky – Department of Horticulture – Lexington, Kentucky, USA. September 2010 –July 2011.

Previous positions held

- Teaching assistant at Dept. of Plant Production. University of Jordan. 1991-1993.
- A researcher at National Center for Agricultural Research and Technology Transfer (NCARTT), Al-Shoubak center, 1994.
- Teaching and research assistant at Dept. of Plant production, Faculty of Agriculture . University of Mutah. 1995-1996.
- Assistant Prof. at Dept. of Plant Production, University of Mutah, June, 2000 - June, 2005 .
- Director of Agricultural Research Station. Faculty of Agric., University of Mutah. Sept., 2001- Aug., 2002.
- Dean assistant for students affairs, Faculty of Agriculture. Univ. of Mutah. Sept., 2002- Aug., 2003.
- Associate Prof. at Dept. of Plant Production, June, 2005 – June 2010
- Prof. at Dept. of Plant Production, June 2010 – Present.

Refereed publications

1. **Al-Absi, K. M.**, Al-Nasir, F.M and A.Y. Mahadeen. 2009. Mineral content of three olive cultivars irrigated with treated industrial wastewater. **Agricultural Water Management**. 96: 616-626. (Impact factor: 2.506).
1. **Al-Absi, K. M.** and Mohawesh, O. E. 2009. Olive oil mineral content of two local genotypes as influenced by recycled effluent irrigation under arid environment. **Journal of the Science of Food and Agriculture (Wiley)**. 89: 2082–2087. (Impact factor: 1.436).
1. **Al-Absi, K. M.** 2010. Growth and Biochemical constituents of olives as influenced by irrigation with treated industrial wastewater. **Journal of Plant Nutrition**. 33(1): 1-14. (Impact factor: 0.641).

1. **Al-Absi, K. M.** 2010. Effect of different pre-sowing treatments on breaking dormancy of *Prunus mahaleb* L. **Seed Science and Technology**. 38: 332-340. (Impact factor: 0.631).
1. **Al-Absi, K.**, Qrunfleh, M. and Abu-Sharar, T. 2003. Mechanism of salt tolerance of two olive *Olea europea* L. cultivars as related to electrolyte concentration and toxicity. **Acta Horticulturae**. 618:281-290. (Impact factor: 0.204).
1. Mohawesh, O.E. and **Al-Absi, K.M.** 2009. Physiological Response of Two Apple Genotypes to Different Water Regimes under Semiarid Conditions. **Advances in Horticultural Science**. 23(3): (158-165).
5. **Al-Absi, K. M.** 2009. Growth and ionic relations in 'Nabali' olive during salinity stress as affected by salicylic acid and relief treatments. **Advances in Horticultural Science, Italy**. 23(2): 101-107.
1. Al-Maaitah, M. I., **Al-Absi, K. M.** and Al-Rawashdeh, A. 2009. Oil Quality and Quantity of Three Olive Cultivars as Influenced by Harvesting Date in the Middle and Southern Parts of Jordan. **International Journal of Agriculture and Biology**. 11(3): 266- 272. (Impact factor: 0.94).
1. Mahadden. A.Y., Mohawesh, O. E., **Al-Absi, K.M.** and Al-Shareef, W. 2011. Effect of irrigation regimes on water use efficiency and tomato yield (*Lycopersicon esculentum* Mill.) grown under an arid environment. **Archives of Agronomy and Soil Science**. 57(1): 105 - 114.
1. **Al-Absi, K. M.** 2009. Thinning intensity of 'Ace Spur Delicious' and 'Idared' apples with ethephon, benzyladenine and their combination. **Jordan Journal of Agricultural Sciences**. 5(3): 237-250.
1. **Al-Absi, K. M.** 2009. Gas exchange, chlorophyll and growth response of three orange genotypes (*Citrus sinensis* [L.] Osbeck) to abscisic acid under progressive water deficit. **Jordan Journal of Agricultural Sciences**. 5(4) : 421- 433.
1. **Al-Absi, K. M.** 2005. Response of Grapevines to Irrigation with Multicomponent Electrolyte Solutions in Presence of Chloride Salinity. **Pakistan Journal of Biological Sciences**. 8(2): 318-325.
1. Al-Nasir, F. M. and **K. M. Al-Absi**. 2005. Diagnosing the nutritional status of apple orchards at south of Jordan. **Arab Universities Journal of Agricultural Sciences**. 13 (2): 459-469.
1. **Al-Absi, K.M.**, Mohawesh, O.E. and Tadros, M.J. 2010. Effect of antitranspirant application on physiological and biochemical parameters of three orange cultivars grown under progressive water deficit. **Advances in Horticultural Science, Italy**. 24(3): 183-194.

1. **Al-Absi, K. M.** and I. A. Al-Twissi. 2003. Performance and alternate bearing of seven pistachio cultivars grown under rainfed and marginal conditions at south of Jordan. **Zagazig Journal of Agricultural Research**. 30(6): 2145- 2153.
1. **Al-Absi, K. M.** 2003. Rooting response of ‘Nabali’ and ‘Improved Nabali’ olive cuttings to Indole Butyric Acid concentration and collection season. **Pakistan Journal of Biological Sciences**. 6(24): 2040-2043.
1. **Al-Absi, K. M.**; A. Mahadeen and W. Al-Shareef. 2003. Yield performance of ‘Williams’ banana as influenced by irrigation water level and K fertilization rate. **Zagazig Journal of Agricultural Research**. 30(4): 1491-1503.
1. **Al-Absi, K. M.** ; A. Al-Twissi and M. Al-Talhouni. 2003. Evaluation of quality features of seven pistachio cultivars grown under rainfed and marginal conditions in south of Jordan. **Minufia Journal of Agricultural Research**. 28(4): 1193-1199.
1. **18. Al-Absi, K.M.**, Qrunfleh, M. and Abu-Sharar, T. 2002. Mechanism of salt tolerance of two olive cultivars (*Olea europaea* L.) as related to electrolyte concentration and toxicity. **XXVI International Horticultural Congress**. Toronto. Ontario. Canada: 151.
1. Al-Shurafa, W., Mahadeen, A., and **Al-Absi, K.** 2014. Evaluation for salt stress tolerance in two strawberry cultivars. *American Journal of Agricultural and Biological Sciences*. 9(3) 334-341.
1. Ayoub, S., **Al-Absi, K.**, Shdeifat, S., Majali, O and Hijazeen, D. 2014. Effect of olive mill wastewater land-spreading on soil properties, olive tree performance and oil quality. *Scientia Horticulturae* (Accepted).

Scholarships and Awards

- DAAD scholarship. Humboldt University in Berlin. Leibniz-Institute of Vegetable and Ornamental Crops, Großbeeren. 2013. Germany.
- Fulbright scholarship, University of Kentucky, USA, September 2010 – July 2011.
- Award from Vice President of Mutah University. 2003. (Scientific day).
- Scholarship of M.Sc study from University of Jordan (1994-1996).
- Scholarship of PhD study from Mutah University (1997-2000).

Granted projects

1. Capacity Building of Personnel in Jordanian Olive Oil Industry. **TEMPUS**. European Commission. 3 years. (750000 euro).
2. Physiological responses of tomato to inoculation with *Piriformospora indica* under osmotic stress and chloride toxicity. DAAD scholarship. Humboldt University in Berlin. Germany.
3. The Effect of irrigation with treated wastewater on growth and fruiting of different olive cultivars. Deanship of scientific Research, University of Mutah, 2 years. (30,000 \$)

4. Growth, gas exchange and chemical composition of three orange genotypes grafted on sour orange under water deficit. Deanship of scientific Research, University of Mutah, 2 years (30, 000\$).
5. Effect of olive mill wastewater landspreading on olive tree performance, oil quality and soil properties. Scientific Research Fund. Jordan. 3 years. (90, 000\$)

Papers under review

1. Al-Absi, K.M. and Archbold, D. 2013. Water relation and assimilation of apples as related to water deficit. Submitted.
2. Al-Absi, K. M and Franken, P. 2014. Physiological responses of tomato to inoculation with *Piriformospora indica* under osmotic stress and chloride toxicity.
3. Al-Absi, K.M. and Archbold, D. 2013. Water relation and gas exchange properties of strawberry to water stress.

Non-Refereed publications

1. Al_Absi, K. Al-Rawashdeh, I. and Al-Twissi, N. 1994. Inducing delay in the flowering of plum using ethephon. Annual report. NationalCenter for Agricultural Research and Technology Transfer. Ministry of Agriculture.
2. Al_Absi, K.; Al-Rawashdeh, I. and Al-Twissi, N. 1993. Comparison of performance of several apple and pear cultivars on different rootstocks. Annual report. NationalCenter for Agricultural Research and Technology Transfer. Ministry of Agriculture.
3. Al_Absi, K.; Al-Rawashdeh, I. and Al-Twissi, N. 1993. Comparison of performance of several stone fruit cultivars on different rootstocks. Annual report. NationalCenter for Agricultural Research and Technology Transfer. Ministry of Agriculture.

Teaching experience

A. Graduate

- Plant growth regulators (PGR)
- Experimental design and analysis
- Plant physiology
- Advanced protected agriculture
- Selected topics
- Evergreen fruit trees
- Principles of plant production
- Plant propagation and nurseries
- Postharvest physiology
- Plant tissue culture
- Plant breeding
- Plant ecology
- Deciduous fruit trees
- Floriculture and landscaping
- Seminarin plant production

- Selected topics
- Seminar in plant production

B. Undergraduate

Scientific meetings, presentations and conferences

- Kentucky Fruit and Vegetables conference. Lexington, Kentucky, USA. January 2011.
- Living Sustainably: Innovation in Food and Energy, Burlington, Vermont, USA, April, 2011.
- Spatial Regression Workshop, Lexington, Kentucky, USA. May 2011.
- Euro Mediterranean Advanced Training course on olive growing: “Strategies of sustainable management of water resources for yield and quality enhancement in olive growing”, CNR – ISAFOM, IOOC, Naboli, Italy, Dec., 2 – 6, 2002.
- AmericanUniversity of Beirut (AUB). Lebanon . Establishment of an olive oil mill at Mutah Universty . Creative Foundation. June 2003.
- Roundtable on the olive oil sector in Jordan. United Nations Industrial Development Organization. Amman. June, 3, 2001.
- The 2nd Arab Conference on Perspective of Modern Biotechnology. Higher Council of Science and Technology. Jordan, 1993.
- Tissue culture workshop. NationalCenter for Research and Technology Transfer (NCARTT). 1994.
- The first scientific week for Faculty of Agriculture, Univ. of Mutah. Jordan, 1995.
- The second agricultural scientific conference. University of Science and Technology. Jordan. April, 29-30. 1997.
- Proceeding of the regional seminar on irrigation research in the Mediterranean region. University of Jordan. Jordan. 1998.
- The third agricultural scientific conference: The scientific research in service of agricultural development. MutahUniversity. Jordan. April, 27-29, 1999
- Irrigation management and saline conditions. University of Science and Technology. Jordan. June, 21-23, 1999.

M. Sc. Supervision

1. Al-Maaitah, M. A. 2007. Olive oil quality and quantity of three olive cultivars as influenced by harvesting date at middle and southern part of Jordan. M. Sc. Thesis. Faculty of Graduate Studies. University of Mutah.
2. Abu-Samra, O. A. 2007. Salt tolerance of two pistachio rootstocks as influenced by salicylic acid. M. Sc. Thesis. Faculty of Graduate Studies. University of Mutah.
3. Al-Sabayleh, H. M. 2007. Reducing bitter bit incidence of two apple cultivars by calcium chloride application. M. Sc. Thesis. Faculty of Graduate Studies. University of Mutah.
4. Al-Shurafa, W. A. 2008. *In vitro* propagation and evaluation for salt tolerance of two strawberry cultivars. M. Sc. Thesis. Faculty of Graduate Studies. University of Mutah.

- Altarawneh. R. 2010. Physiological responses of olive tress to interactive effect of irrigation deficit and salinity.

6.=Kanag. R. 2010. Effect of different treatments of thinning on grape performance.

Theses defense committee's membership

- I was a member of M.Sc thesis defense committee for many MSc students at University of Mutah, University of Jordan and Balqa University.

Languages

Arabic (Native)

English (Very good)

Training courses:

- Scientific writing
- Building the Capacity of Jordanian Researchers Project
- Greenhouses Technology
- Experimental design and analysis: SAS, MSTAT
- ICDL- Mutah CDL.
- Plant tissue culture
- Chromotographic application (GC, HPLC)
- Educational Portal

Computer

Level of computer command: excellent

Microsoft office, SAS, MSTATC.

Referee

- Journal of Plant Nutrition and Soil Science
- Emirates Journal of Agricultural Science
- Malaz Research Center, King of Saud University
- Jordan Journal of Agricultural Sciences
- Mutah Journal for Research & Studies
- The Scientific Research support Fund, Ministry of higher Education and and scientific Research.
- The Accreditation and Quality Assurance Commission, Minstry of Education. Palestinian National Authority.
- Open Al-Quds University
- Al-Qaseem University, Saudia Arabia
- National Al-Najah University

References

- Prof. Dr. Douglas Archbold. Prof. of Fruit Trees. Department of Horticulture, University of Kentucky. USA. E. mail : darchbol@uky.edu.
- Prof. Dr. Phillip Franken. Leibniz-Institute of Vegetable and Ornamental Crops, Plant Nutrition Department. Theodor-Echtermeyer-Weg 1 D-14979, Großbeeren, E-mail: Franken@igzev.de.
- Prof. Dr. Mustafa Qrunfleh. Prof. of Fruit Trees Physiology (Former minister of agriculture). Faculty of Agriculture-University of Jordan. E. mail: mostafaq@ju.edu.jo
- Prof. Dr. Omar Kafawin. Prof. of Plant Breeding and Genetics. Department of Horticulture and Crop Science. Faculty of Agriculture-University of Jordan. E. mail : kafawin@ju.edu.jo

Membership

- National committee of fruit trees
- Scientific research committee
- Bachelor and Master plan committee
- Higher studies committee
- Head of scientific tenders committee
- Investigation with students – Head and member
- Referee in international journals
- Preparation committee for agricultural scientific conference
- Member of university council
- Member of faculty council
- Member of the editorial board of Mutah Journal for Researches and Studies. Natural and Applied Sciences.
- Member in Master defence committees in University of Jordan.
- Member - Agricultural Engineers Association.
- Organizing and scientific committee- OLIVEBIOTEQ conference, 2014 Amman, Jordan.