



Staff Handbook



**Department of Plant Production
Faculty of Agriculture
Jordan University of Science and Technology**



JUST

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Name	Prof. Nezar Samarah		
Post	Crop Production and Physiology/ Seed Science and Technology		
Academic career	Ph.D.	Iowa State University, USA	2000
	M.Sc.	Mississippi State University, USA	1997
	B.Sc.	Jordan Un. of Sc. & Tech. (J.U.S.T), Jordan	1994
Employment	Prof.	J.U.S.T	2010- present
	Assoc. Prof.	J.U.S.T	2006-2010
	Asst. Prof.	J.U.S.T	2001-2006
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1) Effect of magnetic treatments of seeds or saline water on seed germination, seedling growth and productivity of tomato plants. 2) Effectiveness of different seed disinfection treatments on Tomato brown rugose fruit virus (TBRFV) in tomato. 		
Industry collaborations over the last 5 years	<ol style="list-style-type: none"> 1) “Upgrading Jordan greenhouse horticulture by innovative production systems and post-harvest management”, Jordan Hydroponic Agriculture and Employment Development Project (HAED) entitled “Food Security and Creating Employment Opportunity for the Syrian Refugees and Jordanians in Hydroponic Agriculture Production and Improving the Value Chain in the Agriculture Sector”, Funded by Dutch Government. 		
Patents and proprietary rights	<ol style="list-style-type: none"> 1) A method for enhancing germination of seeds using carbon nanoparticles. The Jordan Patent Office/ Ministry of Industry and Trade. 		
Important publications over the last 5 years	<ol style="list-style-type: none"> 1) Samarah, N.H., N.A. AL-Quraan, R.S. Massad, G.E. Welbaum. 2020. Treatment of bell pepper (<i>Capsicum annuum</i> L.) seeds with chitosan increases chitinase and glucanase activities and enhances emergence in a standard cold test. <i>Scientia Horticulturae</i>, 269, 109393. 2) Welbaum, G.E., S.K. Osamah, N.H. Samarah. 2016. A gusseted thermogradient table to control soil temperatures for evaluating plant growth and monitoring soil processes. <i>Journal of Visualized Experiment</i>, (116), e54647. 3) Samarah, N.H., H. Wang, and G.E. Welbaum. 2016. Pepper (<i>Capsicum annuum</i>) seed germination and vigour following nanochitin, chitosan or hydropriming treatments. <i>Seed Science and Technology</i>, 44(3), 609-623. 		
Activities in specialist bodies over the last 5 years	Association of Jordanian Agricultural Engineers, Jordan.	Member	1994-present
	International Seed Testing Association (ISTA), Swaziland.	Member	2010-2011
	Crop Science Society of America (CSSA), USA.	Member	2006-present



Name	Prof. Munir A. Turk		
Post	Crop Production and Physiology/ Forage and Industrial Crops		
Academic career	Ph.D.	University of Sheffield, UK	1989
	M.Sc.	University of Jordan, Jordan	1981
	B.Sc.	University of Jordan, Jordan	1978
Employment	Prof.	J.U.S.T	2004- present
	Assoc. Prof.	J.U.S.T	1999-2004
	Asst. Prof.	J.U.S.T	1991-1999
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1) Impact of olive mill by product (jift) biochar and poultry manure on growth, and chemical composition of faba bean (<i>Vicia faba</i>) crop and on properties of two soil types in north Jordan. 2) Effect of Amino acids stimulants on growth development, yield and fruit quality of Tomato plant 3) Effect of Olive leaves biochar and chemical Fertilizer on growth, yield and chemical composition of barley crop (<i>Hordeum vulgare</i>). 		
Industry collaborations over the last 5 years	None		
Patents and proprietary rights	None		
Important publications over the last 5 years	<ol style="list-style-type: none"> 1) Maher J. Tadros, Hussam J. Omari, Munir A. Turk. 2019. The morphological, physiological and biochemical responses of sweet corn to foliar application of amino acids biostimulants sprayed at three growth stages. Australian Journal of Crop Sciences, 13(3): 412-417. 2) Al-Tawaha, A. R., M. A. Turk, Y. M. Abu-Zaitoon, S. H. Aladaileh, I. M. Al-Rawashdeh, S. Alnaimat, A. R. M. Al-Tawaha, M. H. Alu'datt and M. Wedyan, 2017. Plants adaptation to drought environment. Bulgarian Journal of Agricultural Science, 23 (3): 381–388. 3) Abdel Rahman Al-Tawaha, Munir Aziz Turk, Abdel Razzaq Mohammad Al-Tawaha, Muhammad H. Alu'datt, Mohammad Wedyan, Ezz Al-Dein Muhammed Al-Ramamneh, Anh Tuan Hoang. 2018. Using Chitosan to Improve Growth of Maize Cultivars Under Salinity Conditions. Bulgarian Journal of Agricultural Science, 24 (3) : 437-442. 		
Activities in specialist bodies over the last 5 years	Journal of Plant Breeding and Crop Science.	Member	2009-present



Name	Prof. Ghazi N. Al-Karaki		
Post	Plant production/Plant Physiology		
Academic career	Ph.D.	University of Nebraska, USA	1991
	M.Sc.	University of Jordan, Jordan	1987
	B.Sc.	University of Jordan, Jordan	1981
Employment	Prof.	J.U.S.T	2002- present
	Assoc. Prof.	J.U.S.T	1997-2002
	Asst. Prof.	J.U.S.T	1992-1997
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1) Comparative study of fruit quality and yield in soilless and soil grown green beans (29/2019) funded by JUST. 2) Soil versus Soilless culture and the Effect of Plant Density on the Growth and Chemical composition of sweet basil (67/2016) funded by JUST. 3) Evaluation of a hydroponic system as a disposal method of treated sewage water for production of green barley forage (56/2016) funded by JUST. 		
Industry collaborations over the last 5 years	None		
Patents and proprietary rights	None		
Important publications over the last 5 years	<ol style="list-style-type: none"> 1) Muhammad H Alu'datt, Taha Rababah, Mohammad N Alhamad, Abdelrazzaq Al-Tawaha, Abdel Rahman Al-Tawaha, Sana Gammoh, Khalil I Ereifej, Ghazi Al-Karaki, Hassan R Hamasha, Carole C Tranchant, Stan Kubow. 2019. Herbal yield, nutritive composition, phenolic contents and antioxidant activity of purslane (<i>Portulaca oleracea</i> L.) grown in different soilless media in a closed system. <i>Industrial Crops and Products</i> 141, 111746. 2) Abdel Razzaq Al-Tawaha, Ghazi Al-Karaki, Abdel Rahman Al Tawaha, Sitti Nurani Sirajuddin, Ibrahim Makhadmeh, Puteri Edaroyati Megat Wahab, Refat A Youssef, Wael Al Sultan, Adnan Massadeh. 2018. Effect of water flow rate on quantity and quality of lettuce (<i>Lactuca sativa</i> L.) in nutrient film technique (NFT) under hydroponics conditions. <i>Bulgarian Journal of Agricultural Science</i>, 24: 791-798. 4) Ibrahim M Makhadmeh, Abdelrazzaq Al-Tawaha, Puteri Edaroyati, Ghazi Al-Karaki, Abdel Rahman Al Tawaha, Siti Aishah Hassan. 2017. Effects of different growth media and planting densities on growth of lettuce grown in a closed soilless system. <i>Research on Crops</i>, 18(2): 294-298. 		
Activities in specialist bodies over the last 5 years	American Society of Plant Biologists	Member	2010-present



Name	Prof. Mohammad Mahmoud M. Alajlouni		
Post	Plant production/ Plant breeding and genetics		
Academic career	Ph.D.	Iowa State University, USA	1992
	M.Sc.	University of Jordan, Jordan	1986
	B.Sc.	University of Jordan, Jordan	1981
Employment	Prof.	J.U.S.T	2010- present
	Assoc. Prof.	J.U.S.T	1998-2010
	Asst. Prof.	J.U.S.T	1992-1998
Research and development projects over the last 5 years	1) Study and characterization of the root system in wheat genotypes to develop drought resistance varieties. Partner: Dr. Mohsen Mohammadi, Purdue University. Support by both Universities.		
Industry collaborations over the last 5 years	1) Working at AARINENA in Administrative position.		
Patents and proprietary rights	None		
Important publications over the last 5 years	<p>1) Zakaria AL-Ajlouni, Mohammed AL Ajlouni, Mohamad Shatnawi, Rida Shibli, brahim Makhadmih, Saeid Abu Roman and Abdull Lateif Al - Ghzawi. 2012. Callus induction, plant regeneration, and growth in barley (<i>Hordeum vulgare L.</i>) South Western Journal of Horticulture, Biology and Environment, 3(1): 25 – 39.</p> <p>2) Abdul Latief A. Al-Ghzawi, Emad Bsoul, Fakher Aukour, Zakaria Al-Ajlouni, Maram Al-Azzam and Mohammad M. Ajlouni. 2011. Genetic Variation for Quantitative Traits in Jordanian Lentil Landraces. Advances in Environmental Biology, 5(11): 3676 – 3680.</p> <p>3) Ajlouni, M. M., A. A. Al-Ghzawi, and H. Z. Ghosha. 2010. Inheritance of grain filling rate and duration, and yield components in five-durum wheat crosses. International Journal of Plant Breeding, 5(1): 21-24.</p>		
Activities in specialist bodies over the last 5 years	Agriculture Engineers Association.	Member	1981-present
	WANA network in In-Situ Conservation of Plant Genetic Resources.	Member	1993-present



Name	Prof. Hail Kamel Shannag		
Post	Plant production/ Entomology and Pest Management		
Academic career	Ph.D.	University of Hannover, Germany	1989
	M.Sc.	University of Göttingen, Germany	1985
	B.Sc.	University of Mosul, Iraq	1980
Employment	Prof.	J.U.S.T	2009- present
	Assoc. Prof.	J.U.S.T	2000-2009
	Asst. Prof.	J.U.S.T	1994-2000
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1) Reuse of wastewater in irrigation and its Impact on Plant-Insects Relationship. 2) Integration of biopesticides and natural enemies for improved pest management. 3) Effectiveness of some recently developed microbe-based control agents to the whitefly, <i>Bemisia tabaci</i> (Hemiptera: Aleyrodidae). 		
Industry collaborations over the last 5 years	1) Establishment of fruit tree orchard at Jordan University of Science and Technology		
Patents and proprietary rights	None		
Important publications over the last 5 years	<ol style="list-style-type: none"> 1) Shannaq, H. K., Capinera, J. L. & Freihat, N. M. 2015. Effects of neem-based insecticides on consumption and utilization of food in larvae of southern armyworm, <i>Spodoptera eridania</i> (Stoll) (Lepidoptera: Noctuidae). Journal of Insect Science, 15(1): 152-158. 2) Shannaq, H. K., Malak, A-H. & Capinera, J. L. 2017. Comparative assessment of three biologically based insecticides on the survival and development of the whitefly, <i>Bemisia tabaci</i> (Hemiptera: Aleyrodidae). Trends in Entomology, 13: 35-43. 3) Shannaq, H. K. & Capinera, J. L. 2018. Comparative effects of two novel Betaproteobacteria-based insecticides on <i>Myzus persicae</i> (Hemiptera: Aphididae) and <i>Phenacoccus madeirensis</i> (Hemiptera: Pseudococcidae). Florida Entomologist, 101(2): 212-218. 		
Activities in specialist bodies over the last 5 years	International Journal of Agricultural Policy and Research. Jordan Journal of Agricultural Science. Scientific Research and Innovation Support Fund/ Sector of the Agricultural and Veterinary Sciences at Ministry of Higher Education and Scientific Research, Jordan.	Chief Editor E.B Member Member	2010-present 2020-present 2019-2020



Name	Prof. Abd Al-Majeed Al-Ghzawi		
Post	Apiculture		
Academic career	Ph.D.	Hohenheim University, Germany	1993
	M.Sc.	University of Jordan, Jordan	1988
	B.Sc.	University of Jordan, Jordan	1985
Employment	Prof.	J.U.S.T	2008- present
	Assoc. Prof.	J.U.S.T	2001-2008
	Asst. Prof.	J.U.S.T	1995-2001
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1) Effect of thermal treatments of honey bee queen's developmental stages on queen's bio-quality parameters and heat shock protein expression. 2) Effects of acute heat stress manipulation during larval stage on the mRNA expression of heat shock proteins in adult worker honey bees (<i>Apis mellifera</i> L.) 		
Industry collaborations over the last 5 years	None		
Patents and proprietary rights	None		
Important publications over the last 5 years	<ol style="list-style-type: none"> 1) Al-Ghzawi, A. and Zaitoun S. 2017. Management of honeybees colonies in arid and semi-arid regions of Jordan and Arabian Gulf Areas. Modern Books world. Jordan. 226pp. 		
Activities in specialist bodies over the last 5 years	Agriculture Engineers Association.	Member	1993-present
	Asian Apicultural Association (AAA). Thailand.	Member	2000-present
	Arab Beekeepers Association.	Member	1998-present
	International Pest Management Association.	Member	2009-present



Name	Prof. Maher Jamal Tadros		
Post	Vegetation Ecology and Management		
Academic career	Ph.D.	Purdue University, USA	2003
	M.Sc.	University of Jordan, Jordan	1997
	B.Sc.	University of Jordan, Jordan	1995
Employment	Prof.	J.U.S.T	2019- present
	Assoc. Prof.	J.U.S.T	2011-2019
	Asst. Prof.	J.U.S.T	2003-2011
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1) AGROPOPLAR: Farming with mixed agroforestry poplar systems to boost resilience and sustainable development in the Mediterranean basin. PRIMA fund 2020. 2) Impact of trees on the urban microclimate under climate change: Mechanisms and ecosystem services of urban tree species in temperate, Mediterranean and arid major cities. DFG funded 2020. 3) Evaluation of different soilless media on growth, quality and yield of Two Cucumber Cultivars (<i>Cucumis sativus</i> L.) Grown Under greenhouse conditions. Deanship of research fund JUST.2017. 		
Industry collaborations over the last 5 years	1) The technology of Water boxes in Karachi/ Pakistan – SOORTY company during the period of 21st – 24th of January, 2019.		
Patents and proprietary rights	None		
Important publications over the last 5 years	<ol style="list-style-type: none"> 1) Maher J. Tadros, Naji K. Al-Mefleh, Yahia Othman, Amani Al-Assaf. 2021. Water harvesting techniques for improving soil water content, and morpho-physiology of pistachio trees under rainfed conditions. January 2021. Agricultural Water Management, 243:106464. DOI: 10.1016/j.agwat.2020.106464. 2) Maher J. Tadros, Amani Al-Assaf, Yahia Othman, Hatem Tayfor. 2020. Evaluating the effect of <i>Prosopis juliflora</i>, an Alien Invasive Species, on land cover change using remote sensing approach. Sustainability, 12(5887). DOI: 10.3390/su12155887. 3) Maher J. Tadros, Hussam J. Omari, Munir A. Turk. 2019. The morphological, physiological and biochemical responses of sweet corn to foliar application of amino acids biostimulants sprayed at three growth stages. Australian Journal of Crop Sciences, 13(3): 412-417. 		
Activities in specialist bodies over the last 5 years	Agriculture Engineers Association. CSA, ASA, SSA. SAF	Member Member Member	1995-present 2010-2011 2006-present



Name	Dr. Nawaf M. Freihat		
Post	Pomology		
Academic career	Ph.D.	Mississippi State University, USA	1997
	M.Sc.	University of Jordan, Jordan	1986
	B.Sc.	NWFP Agricultural University, Pakistan	1983
Employment	Assoc. Prof.	J.U.S.T	2009- present
	Asst. Prof.	J.U.S.T	1997-2009
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1) Effects of four different rootstocks and Jasmonic acid treatments on growth and development of "Saturn" peach and their resistant to peach root borer. funded by JUST. 2) Effect of supplementary irrigation treatments on growth and production of Nabali Baladi and Grossidi Cultivars, and Development of Pollinia Pollini (Costa) on Nabali Baladi and Grossidi Cultivars of Olive Trees. funded by JUST. 		
Industry collaborations over the last 5 years	None		
Patents and proprietary rights	None		
Important publications over the last 5 years	<ol style="list-style-type: none"> 1) Nawaf M. Freihat, Hail K. Shannag, Mazin A. Alkelani. 2021. Effects of supplementary irrigation on performance of 'Nabali' and 'Grossa de Spain' olives under semi-arid conditions in Jordan. <i>Scientia Horticulturae</i> 275, 109696. 2) Freihat, N. M., Al-Ghzawi, A., Zaitoun, S. and Alqudah, A. 2008. Fruit set and quality of loquats (<i>Eriobotrya japonica</i>) as effected by pollinations under sub-humid Mediterranean. <i>Scientia Horticulturae</i> 117, 58-62. 3) Freihat, N. M., Al-Shannag, A. K. and El assi, N. 2008. Qualitative responses of "Nabali" olive oil to harvesting time and altitudes at sub-humid Mediterranean. <i>International Journal of Food Properties</i>. (3), 11. 561-570. 		
Activities in specialist bodies over the last 5 years	None		



Name	Dr. Ibrahim M. Makhadmeh		
Post	Vegetable crops production and physiology		
Academic career	Ph.D.	Mississippi State University, USA	2000
	M.Sc.	University of Jordan, Jordan	1990
	B.Sc.	University of Sallah Edden, Iraq	1985
Employment	Assoc. Prof.	J.U.S.T	2008- present
	Asst. Prof.	J.U.S.T	2000-2008
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1) Effect of water flow rate on quantity and quality of lettuce (<i>Lactuca sativa</i> L.) in nutrient film technique (NFT) under hydroponics. Funded by JUST. 2) Evaluation of in vitro salt tolerance in <i>Cucumis prophetarum</i> L., a crop wild relative. Funded by JUST. 3) Heavy metals in vegetables sold in the local market in Jordan. 4) Food additives & contaminants. Funded by JUST. 		
Industry collaborations over the last 5 years	1) Establishment of Hydroponic and Postharvest Training unit at Jordan University of Science and Technology. Partners: ECO Consult_Jordan. 2017-2020.		
Patents and proprietary rights	None		
Important publications over the last 5 years	<ol style="list-style-type: none"> 1) Abdel Razzaq Al-Tawaha, Ghazi Al-Karaki, Abdel Rahman Al Tawaha, Sitti Nurani Sirajuddin, Ibrahim Makhadmeh, Puteri Edaroyati Megat Wahab, Refat A Youssef, Wael Al Sultan, Adnan Massadeh. 2018. Effect of water flow rate on quantity and quality of lettuce (<i>Lactuca sativa</i> L.) in nutrient film technique (NFT) under hydroponics conditions. Bulgarian Journal of Agricultural Science, 24: 791-798. 2) Ibrahim M Makhadmeh, Abdelrazzaq Al-Tawaha, Puteri Edaroyati, Ghazi Al-Karaki, Abdel Rahman Al Tawaha, Siti Aishah Hassan. 2017. Effects of different growth media and planting densities on growth of lettuce grown in a closed soilless system. Research on Crops, 18 (2): 294-298. 		
Activities in specialist bodies over the last 5 years	None		



Name	Dr. Laith M. Rousan		
Post	Extension and transfer of Agricultural Technology		
Academic career	Ph.D.	Ohio State University, USA	1995
	M.Sc.	California State Polytechnic State University, USA	1990
	B.Sc.	Ain Shams University, Egypt	1981
Employment	Assoc. Prof.	J.U.S.T	2007- present
	Asst. Prof.	J.U.S.T	1996-2007
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1) Technology transfer program on wastewater and bio solids reuse in agriculture, funded by International Arid Land Consortium (IALC) and USAID. 2) Multinational approaches to enhance goat production in the Middle East. (MERC – Program), funded by USAID. 3) Farm Level Optimal Water Management: assistant for irrigation under deficit, funded by EU. 		
Industry collaborations over the last 5 years	1) Wastewater Reuse in Agriculture, Funded by USAID.		
Patents and proprietary rights	None		
Important publications over the last 5 years	<ol style="list-style-type: none"> 1) Rusan, M.M., Hinnawi, S., and Rousan L.M. 2007. Long term effect of wastewater irrigation of forage crops on soil and plant quality parameters, Desalination Journal, 215, PP 143-152. 2) Rousan, L.M. 2007. Factors Influencing Adoption of Improved Farm Practices among Women Farmers in Northern Jordan. American Eurasian Journal of Agricultural and Environmental Sciences, 2, No. 3, PP 220-226. 3) Rousan L.M. 2007. Women farmer and their educational needs in small ruminant production in the Northern Badia region of Jordan, "American Eurasian Journal of Agricultural and Environmental Sciences. 2, 4, 369-374 		
Activities in specialist bodies over the last 5 years	Water Users Association Al-Burz Agricultural Organization	Director Member	2017-2019 2016-present



Name	Dr. Firas M. Abu El Samen		
Post	Plant pathology and plant health management		
Academic career	Ph.D.	North Dakota State University, USA	2001
	M.Sc.	University of Jordan, Jordan	1993
	B.Sc.	University of Jordan, Jordan	1990
Employment	Assoc. Prof.	J.U.S.T	2017- present
	Asst. Prof.	J.U.S.T	2006-2017
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1) Green synthesis of silver nanoparticles using <i>Prosopis juliflora</i>. extracts and effect on plant pathogenic fungi and plant disease management. funded by JUST. 2) The etiology and molecular detection of grape vine trunk diseases causal organism in Jordan. (Submitted for funding to JUST.) 		
Industry collaborations over the last 5 years	<ol style="list-style-type: none"> 1) Establishment of Hydroponic and Postharvest Training unit at Jordan University of Science and Technology. Partners: ECO Consult_Jordan. 2017-2020. 		
Patents and proprietary rights	None		
Important publications over the last 5 years	<ol style="list-style-type: none"> 1) 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 <i>Thielaviopsis punctulata</i> in United Arab Emirates. <i>Plant Dis.</i> 100:2370-2376. 2) Abu-El Samen, F.M., Goussous, S.J., Al Shudifat A., and Makhadmeh, I.M., 2016. Reduced sensitivity of tomato early blight pathogen (<i>Alternaria solani</i>) isolates to protectant fungicides, and implication on disease control. <i>Archives of Phytopathology and Plant Protection.</i> 49:120-136. 3) 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. <i>International Journal of Pest Management.</i> 61:320-328. 		
Activities in specialist bodies over the last 5 years	APS (American Phyto- Pathological Society)	Member	2000-present



Name	Dr. Saba J. Goussous		
Post	Plant virology and biotechnology		
Academic career	Ph.D.	Virginia Tech. University, USA	1997
	M.Sc.	University of Jordan, Jordan	1983
	B.Sc.	University of Jordan, Jordan	1978
Employment	Assoc. Prof.	J.U.S.T	2011- present
	Asst. Prof.	J.U.S.T	1997-2011
Research and development projects over the last 5 years	None		
Industry collaborations over the last 5 years	None		
Patents and proprietary rights	None		
Important publications over the last 5 years	<ol style="list-style-type: none"> 1) Goussous, S.J., Ibrahim, M.A., Tahhan, R.A., Antary, M, T. 2019. Biological control of stem rot, <i>Sclerotinia sclerotiorum</i> by indigenous <i>Bacillus subtilis</i> isolates. Fresenius Environmental Bulletin 28:9517-9525. 2) Abu-El Samen, F.M., Goussous, S.J., Al Shudifat A., and Makhadmeh, I. M. 2016. Reduced sensitivity of tomato early blight pathogen (<i>Alternaria solani</i>) isolates to protectant fungicides, and implication on disease control. Archives of Phytopathology and Plant Protection. 49:120-136. 3) Abu-El Samen, F.M., Goussous, S.J., 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. 		
Activities in specialist bodies over the last 5 years	APS (American Phyto- Pathological Society)	Member	1997-present



Name	Dr. Taha A. Al-Issa		
Post	Environmental Science and Biosystems		
Academic career	Ph.D.	Oklahoma State University, USA	2001
	M.Sc.	Oklahoma State University, USA	1995
	B.Sc.	King Faisal University, Saudi Arabia	1982
Employment	Assoc. Prof.	J.U.S.T	2007- present
	Asst. Prof.	J.U.S.T	2002-2007
Research and development projects over the last 5 years	1) The effect of biochar and compost as soil amendments in combination with poultry manure on growth, yield and chemical composition of lettuce. funded by JUST.		
Industry collaborations over the last 5 years	None		
Patents and proprietary rights	None		
Important publications over the last 5 years	<p>1) Taha A. Al-Issa. 2015. The development of agricultural mechanization in Jordan. Journal of Agriculture and Environmental Sciences. Vol. 4, No. 2, pp. 71-76.</p> <p>2) Al-Mefleh, N. K., Bashabsheh, I., Talozi, S., Al-Issa, T. 2015. Field evaluation of the performance of different irrigation emitter types using treated wastewater. Water Quality Research Journal of Canada. 50 (3), 240-251.</p>		
Activities in specialist bodies over the last 5 years	Agriculture Engineers Association.	Member	1982-present
	ASAE, the American Society of Agricultural Engineers.	Member	1998-present
	Alpha Epsilon, the honourable society of Agricultural Engineers	Member	1998-present



Name	Dr. Zakaria Al Ajlouni		
Post	Plant Breeding and Genetic / Small grain		
Academic career	Ph.D.	University of Nebraska-Lincoln, USA	2008
	M.Sc.	J.U.S.T, Jordan	2001
	B.Sc.	J.U.S.T, Jordan	1997
Employment	Assoc. Prof.	J.U.S.T	2016- present
	Asst. Prof.	J.U.S.T	2009-2016
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1) Develop new cultivars of wheat, barley, and triticale for Jordan. 2) Develop useful germplasm for others to use as parents in creating new cultivars. 3) Develop new breeding methods for self-pollinated crops with an emphasis on biotechnology, advanced experimental designs, and crop modelling. 		
Industry collaborations over the last 5 years	<ol style="list-style-type: none"> 1) Working with Bakker Brothers company, Jordan to train students on eggplant pollination by hand. 2) Working with Abu Alkeshik farm to train students on management many fruit productions. 		
Patents and proprietary rights	None		
Important publications over the last 5 years	<ol style="list-style-type: none"> 1) Al-Ajlouni, Z.I. Al-Abdallat, A. Al-Ghzawi, A. Ayad, J. Abu Elenein J, Al-Quraan, N and Baenziger, P.S. 2016. Impact of pre-anthesis water deficit on yield and yield components in barley (<i>Hordeum vulgare L.</i>) plants grown under controlled conditions. <i>agronomy</i>, 6 (2) 33: 1-14. 2) Elbasyoni I.S, El-Orabey W.M, Morsy S, Baenziger P.S, Al Ajlouni Z.I., Dowikat I. 2019. Evaluation of a global spring wheat panel for stripe rust: Resistance loci validation and novel resources identification. <i>PloS one</i>. 14 (11): e0222755 3) Al-Ajlouni, Z.I. Al-Ghzawi, A. Al-Abdallat, A. Ayad, J. Abu Elenein, J Al-Quraan, N and Baenziger, P.S. 2017. Effect of Pre-Anthesis Water Deficit on Plant Height, Peduncle Length and Spike Length in 13 (<i>Hordeum vulgare L.</i>) Genotypes. <i>Jordan Journal of Agricultural Sciences</i>. Vol 13 , No.1: 163-173. 		
Activities in specialist bodies over the last 5 years	Agriculture Engineers Association.	Member	1998-present
	Sigma XI (The Scientific Research Society)	Member	2003-2008
	Crop Science Society of America (CSSA)	Member	2006-present



Name	Dr. Mohammad M. Al-Salem		
Post	Horticulture / Ornamental and Landscape Plants		
Academic career	Ph.D.	Leibniz University Hannover, Germany	2017
	M.Sc.	J.U.S.T, Jordan	2000
	B.Sc.	J.U.S.T, Jordan	1997
Employment	Asst. Prof.	J.U.S.T	2018- present
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1) Genome-wide association study of phenotypic traits in local fig (<i>Ficus carica L.</i>) landraces. 2) The effect of nursery pre-inoculation with mycorrhizal fungi on improving the quality of marigold seedlings and thereafter on their establishment, growth, and survival rate under water deficit conditions. 3) Study of the endangered oriental strawberry tree (<i>Arbutus andrachne L.</i>) and its protection through production and evaluation of morphological and physiological characteristics, and molecular characterization 		
Industry collaborations over the last 5 years	None		
Patents and proprietary rights	None		
Important publications over the last 5 years	<ol style="list-style-type: none"> 1) Al-Salem, M. and Serek, M. 2019. Development of cleaved amplified polymorphic sequence (CAPS) markers that may indicate ethylene sensitivity in miniature potted roses. Acta Horticulture. 1256,107-114. DOI: 10.17660/ActaHortic.2019.1256.15 2) Al-Salem, M., & Serek, M. 2017. Expression analysis by RT-PCR of genes involved in ethylene synthesis and signal transduction in miniature roses. Scientia Horticulturae, 216, 22-28. 		
Activities in specialist bodies over the last 5 years	Agriculture Engineers Association.	Member	1997-present
	AARINENA Biotechnology Network	Member	2019- present
	International Society for Horticultural Science	Member	2020-present



Name	Dr. Mohammad M. Al-Gharaibeh		
Post	Plant phylogeny and ecology		
Academic career	Ph.D.	Martin Luther University, Halle, Germany	2017
	M.Sc.	Yarmouk University, Irbid, Jordan	2005
	B.Sc.	J.U.S.T, Jordan	2001
Employment	Asst. Prof.	J.U.S.T	2018-present
Research and development projects over the last 5 years	1) Seed germination of <i>Rosa pulverulenta</i> M.Bieb. for conservation purposes: A locally critically endangered, promising ornamental drought tolerant native plant species from Shoubak Province, Jordan. funded by SRF.		
Industry collaborations over the last 5 years	None		
Patents and proprietary rights	None		
Important publications over the last 5 years	<p>1) Rosche, C., Hensen, I., Schaar, A., Zehra, U., Jasieniuk, M., Callaway, R.M., Khasa, D.P., Al- Gharaibeh, M., et al. 2019. Climate outweighs native vs. nonnative range effects for genetics and common garden performance of a cosmopolitan weed. <i>Ecological Monographs</i>, https://doi.org/10.1002/ecm.1386.</p> <p>2) Al-Gharaibeh, M., Hamasha, H., Rosche, C., Lachmuth, S., Wesche, K. and Hensen, I. 2017. Environmental gradients shape the genetic structure of two medicinal <i>Salvia species</i> in Jordan. <i>Plant Biology</i>. 19: 227-238.</p> <p>3) Al-Gharaibeh, M., Hamasha, H., Lachmuth, S. and Hensen, I. 2017. Local adaptation to deferent phytogeographical regions: Habitat-related variations in seed germination in response to temperature and salinity for two medicinal <i>Salvia species</i> from Jordan. <i>Plant Species Biology</i>. 32: 2535.</p>		
Activities in specialist bodies over the last 5 years	IUCN Species Survival Commission.	Member	2017-present
	IUCN Ecosystem Management Commission.	Member	2017-present
	AARINENA Medicinal plant Network.	Member	present
	Jordan Journal of Natural History	E.B.	2019-present
		Member	2019-present