


Personal Information	<p>Name: Yahaya Khalil Shakhatreh</p> <p>Address: : Yahya Shakhatreh P.O. BOX 639 Baqa' 1931 Jordan</p> <p>Phone: +962 79 5310638 (Mobile) Phone: +962 6 4725071 Ext. 304 (Office) Phone: +962 2 7101030 (Home)</p> <p>Institution: National Center for Agricultural Research and Extension E-mail: shakhatreh12@yahoo.com or yahya@ncare.gov.jo</p> <p>Nationality: Jordanian. Date of birth: 17/ 06 / 1961 Gender: Male Marital status: Married Passport No. : L637612 Expire: 25/ 01 / 2017 Additional Information: Driving Licence</p> 
University Degrees	<ul style="list-style-type: none"> - PhD (2006) in Horticulture and Crop Science, Faculty of Agriculture, The University of Jordan, Amman, Jordan. <i>Dissertation title:</i> Genetic Diversity Assessment among Jordanian Wild Barely (<i>Hordeum spontaneum</i>), and Relationship with Morphological Traits Revealed by SSR Molecular Markers - MSc (1999) in Agricultural Resources & Environment, Faculty of Agriculture, The University of Jordan, Amman, Jordan. <i>Thesis title:</i> Evaluation of Barely Lines for Drought Tolerance in Low Rainfall Areas of Jordan. - BSc (1986) in Agronomy, Faculty of Agriculture, Milan University, Milan, Italy.
Languages	<ul style="list-style-type: none"> • Arabic: Mother tongue • English: Excellent in writing, reading and speaking • Italian: Excellent in writing, reading and speaking
Computer skills	<ul style="list-style-type: none"> • Specialist in statistical software like SAS, MSTSTC, Excel and Genstat. • Excellent usage of Internet, Windows, MS-word

Employment	<ul style="list-style-type: none"> • Main Cereal Researcher and Barley Breeder at the National Center for Agricultural Research and Extension (NCARE), from 2002 till now. • Director of Field Crops Directorate (NCARE), May, 2010 till now. • Cereal Researcher (NCARE), from 1996 to 2002. • Assistant Cereal Researcher (NCARE), from 1991 to 1996. • Bread Wheat Project Manager, 1988 to 1989. Saudi Arabia.
Research Awards	<ul style="list-style-type: none"> • 2013: Focal Point of the CRP Dry System Program in Jordan. • 2012: National Coordinator of the "Mutation Induction and supportive breeding and biotechnology for improving of wheat and Barley" .(Sponsored by IAEA). • 2011: National Coordinator of the " Adaptation to Climate Change of the Mediterranean Agricultural Systems (ACLIMAS) " Project. (Sponsored by EU). • 2009: National Coordinator of the "Sustainable Agriculture production through the promotion of Conservation Agriculture in Jordan" Project. (Sponsored by FAO). • 2009: National Coordinator of the "Responding to the Transboundary Threat of Wheat Black Stem Rust (Ug99)." Project. (Sponsored by IAEA). • 2007: Executive national Coordinator for the "Access Benefit Sharing from Genetic Resources and Traditional Knowledge in Jordan" Project. (Sponsored by International Development Research Center (IDRC)). • 2007: National Coordinator of the "Mutation Induction and supportive breeding and biotechnology methodologies for improving crop productivity for field crops" in ARASIA. (Sponsored by IAEA). • 2002-2006: Principle investigator in "Genetic Diversity Assessment among Jordanian Wild Barely (<i>Hordeum spontaneum</i>), and Relationship with Morphological Traits Revealed by SSR Molecular Markers" Project. International Center for Agricultural Research in Dry Areas (ICARDA) and IDRC).

	<ul style="list-style-type: none"> • 2000-2004: National focal Point for the National Project "From Formal to Participatory Plant Breeding: Improving Barley Production in the Rainfed Areas of Jordan". NCARE, UoJ, JOHD, ICARDA and IDRC. • 1997-1999: Principle investigator in "Evaluation of Barely Lines for Drought Tolerance in Low Rainfall Areas of Jordan" Project. (Sponsored by NCARE and ICARDA).
Research Interests	<ul style="list-style-type: none"> • Cereal breeding, mainly (Wheat and Barley) under stress environments. • Conservation Agriculture. • Food security. • Molecular plant breeding. • Participatory plant breeding (PPB). • Sustainable Agriculture and Intellectual Property Rights. • Climate Change and Drought adaptation.
Publications	<ul style="list-style-type: none"> • Al Hiary, M.,Y. Shakhatreh,Y. Bani Khalaf and M. Ababneh 2015. Socioeconomic assessment of wheat varieties and the adoption of recommended technologies in North Jordan. International Journal of Agricultural Sciences, 5 (7), pp. 864-873 • Shakhatreh, Y., M. Baum, N. Haddad, M. Alrababah and S. Ceccarelli 2015. Assessment of Genetic Diversity among Jordanian Wild Barley (<i>Hordeum spontaneum</i>) Genotypes Revealed by SSR Markers. DOI 10.1007/s10722-015-0285-8 Genet Resour Crop Evol . • Shakhatreh, Y., P. Carvalho, J. Foulkes , I. Musallam, F. Ismail , Y. Khalaf, and N. Bani Hani, 2014. Improving wheat agricultural practices to cope with climate change effects in Jordan . Proceedings in : Water , environment and agriculture: Challenge for sustainable development. N. Lamaddalena, M. Todorovic, L.S. Pereira (Eds). 10-14 September 2013, Bari-Italy • Carvalho, P. , J. Foulkes , Y. Shakhatreh, I. Musallam, F. Ismail , Y. Khalaf, and N. Bani Hani, 2014. Optimising irrigation practices of durum wheat and spring barley to cope with climate change effects in Jordan . Proceedings in : Water , environment and agriculture: Challenge for sustainable development. N. Lamaddalena, M. Todorovic, L.S. Pereira (Eds). 10-14 September 2013, Bari-Italy • Shakhatreh, Y., N. Haddad, M. Alrababah and S. Ceccarelli, 2010. Phenotypic diversity in wild barley (<i>Hordeum vulgare</i> L. ssp. <i>spontaneum</i> (C. Koch) Thell.) accessions collected in Jordan. Genet Resour Crop Evol , 57:131-146 • Shakhatrey,Y. Trend Analysis for rainfall and Temperatures in three Locations in Jordan. Food Security and Climate Change in Dry Areas,

1-4 February 2010. Amman Jordan

- F. Fufa, O. Kafawin, S. Ceccarelli, S. Grando and **Y. Shakhatreh**, 2010. Efficiency of Farmers in Selecting Desirable Genotypes Assessed in Selection Phase of Participatory Barley Breeding. *Plant Breeding*, 129: 156-161
- **Shakhatreh, Y.**, N. Haddad, and S. Ceccarelli,. 2008. An integrated bipolt analysis system for interpreting, and exploring genotype × environment interaction for Wild Barley Genotypes. *Crop Research*, 36: 42-49, No. 3, 2008.
- Kafawin, O. H. Saoub, S. Ceccarelli, **Y. Shakhatreh**, A. Yasin, S. Grando, A. Bwaliez, and A. Khazaleh 2005. Selection Methodology for Participatory Barley breeding in low Rainfall Areas. *Mu'ta Lil-Buhuth wad –Dirasat*.
- Kafawin, A., H.Saoub. , S.Ceccarelli., **Y.Shakhatreh**, A. Yasin., S.Grando, A.A-Bwaliez and A.Khazaleh 2005. Participatory Barley Breeding for Improving Production in Stress Environments. *Dirasat, Agricultural Sciences* 32:57-63.
- **Shakhatreh, Y.**, S. Ceccarelli, S. Grando, and A. Bawaliez 2002. Participatory Barley Breeding Improved Barley Production in Rainfeed Areas of JORDAN. I: Selection Phase. 2nd International Agronomy Congress on “Balancing Food and Environmental Security - A Continuing Challenge”. November 26-30, 2002. New Delhi, India.
- **Shakhatreh.Y.** O.Kafawin, S. Ceccarelli and H. Saoub 2002. “Selection of Barley for Drought Tolerance in Jordan’s Low Rainfall. Ryan,J (ed). *Desert and Dryland Development: Challenges and Potential in the New Millennium. Proceedings of the Sixth International Conference on the Development of dry Lnads.*22-27 August1999.
- **Shakhatreh, Y.**, O.Kafawin, S. Ceccarelli and H. Saoub 2001. “Selection of Barley Lines for Drought Tolerance in Low-Rainfall Areas *J. Agronomy &Crop Science* 186, 119-127.
- Ceccarelli, S., O. Kafawin, H. Saoub, S. Gando, H. Halila, M. Ababneh, **Y.Shakhatreh**, E. Baily, 2000. Increasing the Relevance of Breeding to Small Farmers: Farmers Participation and Local Knowledge in Breeding for Specific Adaptation to Dry Areas in Jordan. *Proceeding of the International Symposium on PPB. Pohara, Nepal, 15 May*

	2000.
Attended Conferences & Workshops	<ul style="list-style-type: none"> • Participation in the 9th Coordination Meeting of RAS5058: “Supporting Mutation Induction and Supportive Breeding and Biotechnologies for Improved Wheat and Barley - Phase II, 14-16 November 2014, Muscat, Oman. • Participation in the Eight Coordination Meeting of RAS5058: “Supporting Mutation Induction and Supportive Breeding and Biotechnologies for Improved Wheat and Barley - Phase II, 25-28 November 2014, Vienna. • Participation in the Third Technical and Steering Committee meetings of the Improving the Food Security and Climate Change Adaptability of Livestock Producers using the Rainfed Barley-based System in Iraq and Jordan Project , 23 -24 November 2014, Amman, Jordan. • Participation in the Innovation Platforms in Dryland System: Development of a Strategic Framework, 15-18 September, Dead Sea, Jordan. • Participation in the Family Farming and Research Conference. 1-3 June 2014, Montpellier, France. • Participation in the 3rd international Workshop Global Yield Gap and Water productivity Atlas, 25-26 March 2014, Addis Ababa, Ethiopia. • Lecturer in the National Training Course on Mutation Breeding and Efficiency Enhancing Technologies, Muscat, Oman, 16 February- 6 March 2014. • Participation in the Innovation Systems Approach and Innovation Platforms (IP) for Improved Impact. 12-16/1/2014, Amman, Jordan. • Participation in the fourth biennial regional coordination meeting for ICARDA meeting West Asia Regional Program (WARP), 15-16, November, 2013, Beirut, Lebanon. • Participation in the ASA, CSS-SSSA annual meeting, 3-6 November 2013, Tampa, Florida, USA. • Participation in the Global Yield Gap Atlas for Jordan, Morocco and Tunisia (GYGA-MENA) project, 7-10 November, 2013, University of Nebraska-Lincoln, USA. • Participating in the Third Technical and Steering Committee meetings of Improving the Food Security and Climate Change Adaptability of Livestock Producers using the Rainfed Barley-based System in Iraq and Jordan project, 29 September-2 October 2013, Amman, Jordan. • Attending the 1st CIGR conference that held in Bari, Italy, 9-14 September, 2013. • Attending the 4th InterDrought conference that held in Berth, Australia, 2-6 September, 2013. • Scientific Planning Meeting of the CGIAR Research Program (CRP) on Dryland Systems for North Africa and West Asia (NAWA) Hammamet, Tunisia. 26-28 July 2013 • Course director of regional training course on Phenotypical Characterization

of Mutants, 19-23, May 2013, Amman Jordan.

- Participation in the CRP Dryland Systems Launching Meeting. 21- 23 May 2013, Amman Jordan.
- Participation in the Seventh Coordination Meeting of “Supporting Mutation Induction and Supportive Breeding and Biotechnologies for Improved Wheat and Barley - Phase II” , 14-17April 2013 Muscat, Sultanate of Oman.
- Course director of the “ Double Haploid and in Vitro Techniques”, 10-14 February 2013, Amman , Jordan.
- Participation in the Research Methods for the Research Program CRP1.1. Dryland Systems, 26-28 November 2012, Reading University, UK.
- Participation in the steering committee of the “Enhancing Food Security in Arab Countries project, 8 November, 2012, Amman, Jordan.
- Regional inception workshop under the activities of the CRP1.1. North Africa and West Asia, 2-4 July 2012, Rabat, Morocco.
- Regional workshop on the “Integrated agricultural systems for the poor and vulnerable in dry areas” organized by ICARDA, 1-4 April 2012, Amman Jordan.
- Participation in the kick-off meeting of the Adaptation to Climate Change of the Mediterranean Agricultural Systems (ACLIMAS), 21-22 March 2012, Tunis.
- Participation in the regional coordination meeting for west regional program (WARP), 3-4 January 2012, Amman Jordan.
- Participation in the summer school for the promotion of the conservation agriculture as a lecturer at the American Beirut University, 13-17 September, 2011,Beirut Lebanon.
- Sixth coordination meeting on the mutation induction project, 5-9 December, 2011, Vienna, Austria.
- Fourth Regional Coordination Meeting under the TC project RAS/5/048 (ARASIA), 9-13 November 2009, Vienna, Austria.
- Second coordination meeting for the interregional project "Responding to the Transboundary Threat of Wheat Black Stem Rust (Ug99)". (2-4) November, 2009, Nairobi, Kenya.
- Regional workshop "Strengthening capacities towards the establishment of a regional platform for the detection of genetically modified organisms", 28-30 July 2009, Amman, Jordan"
- First and steering coordination meeting for the interregional project "Responding to the Transboundary Threat of Wheat Black Stem Rust (Ug99)". (4-8 May), 2009, Vienna, Austria.
- Third National Coordinators Meeting for the Regional Project RAS/5/048" Mutation Induction and Supportive Breeding and Biotechnologies for Improving Crop Productivity ARASIA Member STATES, (13-17 October), 2008, Vienna, Austria.
- International Symposium on Mutation Induction in Plants. 12-15/08/2008,

	<p>Vienna, Austria.</p> <ul style="list-style-type: none"> • Second National Coordinators Meeting for the Mutation Induction Project. 11-15/5/ 2007. Damascus, Syria. • First National Coordinators Meeting for the Mutation Induction Project. 21-25/11/ 2007. Vienna, Austria. • Intellectual Property Rights in Agriculture. 23-24/4/ 2007. Amman, Jordan.
Teaching Experience and training	<ul style="list-style-type: none"> • Participation in the regional course on the “ Maximization of Recourses for Sustainable Increase of Wheat and Barley Productivity, 9-13 July 2012, Dundee, Scotland, UK. • Interregional Training course on Mutation Induction and Breeding for Rust Resistance.7- 18 June 2010, Siebersdorf, Austria. • Regional Training Workshop on Farmer Participation and Seed Multiplication. 9-13 May 2010, Aleppo, Syria. • Regional training Workshop on The Implementation of the SMTA through Options and Guide on Practices, procedures, Legal Matters and Polices in the Multilateral System. 20-24 Arial 2009, Siebersdorf, Austria. • Regional training Course on the Survey, Collection and Storage of Exogenous Germplasm of Potential Interest. 24-28 March 2008, CIMMYT, Obregon, Mexico. • Advanced Plant Breeding. Jordan University for Science and Technology (JUST).
Memberships	<ul style="list-style-type: none"> • A member of Jordanian Agricultural Engineers Association since 1986. • A member of Jordanian Translator’s Association for Italian Language since 1999. • A member of Jordanian Agronomy Association since 1999. • A member of the partnership board of the Agricultural Loans Corporation since 2006. • A member of the National Committee for Released Varieties since 2009.
References	<ul style="list-style-type: none"> • Mohmoud Solh (m.solh@cgiar.org) • Dr. Mahmud Duwayri, E-mail (duwayri@ju.edu.jo), University of Jordan. • Dr. William Payne, E-mail (w.payne@cgiar.org), ICARDA). • Dr. Theodor Friedrich, E-mail (Theodor.Friedrich@fao.org), FAO, Rome. • Dr. Salvatore Ceccarelli, E-mail (s.ceccarelli@cgiar.org), ICARDA, Aleppo.