



## Curriculum Vitae



### PERSONAL INFORMATION

<b>Name:</b>	Abdel Rahman Mohammad Said Al-Tawaha
	Prof. Dr. Plant Science [Plant Ecophysiology]
<b>Title</b>	Prof. Dr.
<b>Date of Birth:</b>	1 <sup>st</sup> March. 1974.
<b>Place of Birth:</b>	Irbid, Jordan
<b>Nationality:</b>	Jordanian/ Permanent Resident of Canada
<b>Marital status</b>	Married
<b>Work Address</b>	Department of Biological sciences Al Hussein Bin Talal University Ma'an, P.O. Box 20, Jordan
<b>E-mail:</b>	<a href="mailto:Abdel-al-tawaha@ahu.edu.jo">Abdel-al-tawaha@ahu.edu.jo</a> <a href="mailto:Abdeltawaha74@gmail.com">Abdeltawaha74@gmail.com</a> <a href="mailto:abdeltawaha@yahoo.com">abdeltawaha@yahoo.com</a>
<b>Tel</b>	
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<b><u>SCIENTIFIC INFORMATION</u></b>	
Citation google scholar	3700
h-index (Google scholar)	31
RG Score	40.97
My research gate	<a href="https://www.researchgate.net/profile/Abdel_Rahman_Al_Tawaha">https://www.researchgate.net/profile/Abdel_Rahman_Al_Tawaha</a>
My google scholar	<a href="https://scholar.google.com/citations?user=CXEC2PYAAAAJ&amp;hl=ar">https://scholar.google.com/citations?user=CXEC2PYAAAAJ&amp;hl=ar</a>

#### **QUALIFICATION**

<b>2003-2006</b>	PhD Plant Science, McGill University, Faculty of Agricultural and Environmental Science, Montreal, Canada. Thesis title: Factors affecting isoflavones concentration in soybean
<b>1997-2000</b>	M.Sc. Plant Production (Field Crops), Faculty of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.  Thesis title: (Evaluation of Ten Barley Genotypes in Response to Fertilization and Herbicide Application).
<b>1993-1997</b>	B.Sc. Plant Production and Protection, Faculty of Agriculture and Science, Private University of Jerash. Jerash Jordan.
<b>1992-1993</b>	High School, Tawjihi Scientific Stream, Yarmok National School, Irbid, Jordan.

#### **OTHER QUALIFICATION**

<b>28-29 October 2008.</b>	Leadership Courses "Leadership in Higher Education Managing Stimulating and Quality Assuring Research in Jordanian Universities". United Nation University, International Leadership Institute (UNU-ILI), Amman Jordan, 28-29 October 2008.
<b>22-23 April 2009.</b>	Training course" Initial Liaison Officer Training" at the Higher Council for Science & Technology organized by Support to Research and Technological Development and Innovation Initiatives and Strategies in Jordan Project, Amman Jordan.
<b>10-11 May 2009.</b>	Training course "entitled "FP7 Advisor" at the Higher Council for Science & Technology organized by Support to Research and Technological Development and Innovation Initiatives and Strategies in Jordan Project, Amman Jordan.
<b>6-13 June 2009</b>	Framework Program Internship, Brussels Enterprise Agency, Brussel, Belgium, 6-13 June 2009. Aide à la Décision

	Economique (ADE) FP Internship, the internship aimed to provide participants with deeper knowledge about the Framework Programme 7 (FP7) including financial issues, international cooperation and Jordanian potential in FP7. The participants also had a chance to carry out a practical example on how to develop budgets for an FP7 proposal, they also visited some research institutes and industrial projects such as the University Faculty of Gembloux and KRAFT Foods Company. Lectures were given by experts in the FP7 programme from DG for Research, The Brussels Enterprise Agency, Agrobiopole Wallon, Université Catholique de Louvain, Wagralim.
<b>9-14 December 2009</b>	<b>FP7 Contract Negotiation and Finance Training</b> Organized by Support to Research and Technological Development and Innovation Initiative and Strategies in Jordan EU Funded Project, Amman International Hotel Amman, December 13 – 14, 2009
<b>15-16 December 2009</b>	<b>FP7 Proposal Evaluation / How to Become an Evaluator</b> Organized by Support to Research and Technological Development and Innovation Initiatives and Strategies in Jordan (SRTD) EU Funded Project Amman International Hotel Amman, December 15 – 16, 2009
<b>3 June - 31 August 2010</b>	<b>Visiting Researcher (DFG)</b> to Institute of Plant Nutrition (Prof. Dr. Sven Schubert Laboratory), Justus Liebig University, Heinrich-Buff-Ring 26-32, Giessen D-35392, Germany .
<b>3 June - 30 August 2011</b>	<b>Visiting Researcher (DFG)</b> to Prof. Dr. Andreas Buerkert Organic Plant Production& Agroecosystems Research in the Tropics and Subtropics Steinstr. 19 University of Kassel
<b>15/June 2013-till now</b>	<b>MC Observer</b> for COST Action ES1104 Arid Lands Restoration and Combat of Desertification: Setting up a Drylands and Desert Restoration Hub. COST is an intergovernmental framework for European Cooperation in Science and Technology which was established to initiate networking and coordination of nationally funded research activities on a European level
<b>2012-2016</b>	<b>Member of the working group 3</b> “Traditional and Innovative Systems: Plants, Ecology and Microclimate Manipulation for Enhanced Vegetation Establishment Think-Tank” of the Cost action ES1104 ”Arid Lands Restoration and Combat of Desertification: Setting Up a Drylands and Desert Restoration Hub”.
<b>November 2014_ till now</b>	<b>MC Observer for COST Action FP1403 Forests, Their Products And Services Non-native tree species for european forests - experiences, risks and opportunities (NNEXT)</b> COST is an intergovernmental framework for European Cooperation in Science and Technology which was established to initiate networking and coordination of nationally funded research activities on a European level.
<b>November 2014_ till now</b>	<b>Member of the working group 3(WG3) Silviculture for COST Action FP1403 Forests, Their Products And Services Non-native tree species for european forests - experiences, risks and opportunities (NNEXT)</b>
<b>October 2016-till now</b>	<b>MC Observer for COST Action CA15206 Payments for Ecosystem Services (Forests for Water)</b> COST is an intergovernmental framework for European Cooperation in Science and Technology which was established to initiate networking and coordination of nationally funded research activities on a European level
<b>October 2016-till now</b>	<b>Member of the Working Group 2 (WG2):</b> Payment Ecosystem Service Environmental Effectiveness in cost action Action CA15206 Payments for Ecosystem Services (Forests for Water).
<b>December 2014-till now</b>	<b>MC Observer for COST Action COST Action FP1401 Forests, Their Products And Services A global network of nurseries as early warning system against alien tree pests (Global Warning)</b> COST is an intergovernmental framework for European Cooperation

	in Science and Technology which was established to initiate networking and coordination of nationally funded research activities on a European level
<b>December 2014-till now</b>	<b>Member of the working group1 (WG1) Prioritisation of tree species for sentinel for COST Action COST Action FP1401 Forests, Their Products And Services A global network of nurseries as early warning system against alien tree pests (Global Warning) nurseries</b>
<b>October 2016-till now</b>	<b>MC Observer for COST Action CA15226 COST Association Climate-Smart Forestry in Mountain Regions.</b> COST is an intergovernmental framework for European Cooperation in Science and Technology which was established to initiate networking and coordination of nationally funded research activities on a European level
<b>October 2016-till now</b>	<b>Member of the working 4(WG4): CLIMATE-SMART INNOVATIVE SCHEMES OF PAYMENT FOR ENVIRONMENTAL SERVICES (PES) for COST Action CA15226 COST Association Climate-Smart Forestry in Mountain Regions</b>
<b>17/03/2017-till now</b>	<b>MC Observer for COST Action CA16123 Safety Culture and Risk Management in Agriculture.</b> COST is an intergovernmental framework for European Cooperation in Science and Technology which was established to initiate networking and coordination of nationally funded research activities on a European level
<b>17/03/2017-till now</b>	Member of the <b>Working Group WG2. identify knowledge, attitudes, behaviours and priorities among farmers regarding safety,health and risk management</b> for . COST Action CA16123 Safety Culture and Risk Management in Agriculture.
<b>16/03/2017 till now</b>	<b>MC Observer for COST Action CA16107 EuroXanth: Integrating science on Xanthomonadaceae for integrated plant disease management in Europe.</b> COST is an intergovernmental framework for European Cooperation in Science and Technology which was established to initiate networking and coordination of nationally funded research activities on a European level.
<b>16/03/2017 till now</b>	Member of the <b>Working Group WG4: Disease Management &amp; Vector Control</b> for COST Action CA16107 EuroXanth: Integrating science on Xanthomonadaceae for integrated plant disease management in Europe
<b>1/04/2018 till now</b>	<b>MC Observer for COST Action ACA15223 Modifying plants to produce interfering RNA.</b> COST is an intergovernmental framework for European Cooperation in Science and Technology which was established to initiate networking and coordination of nationally funded research activities on a European level.
<b>1/04/2018 till now</b>	Member of the <b>Working Group WG4:Socio-economic Issues</b> COST Action ACA15223 Modifying plants to produce interfering RNA.
<b>29-30 October 2017.</b>	Attendance and com plated workshop: Higher Education Learning Strategizes in the 21st Century . British Council/ University of Plymouth U.K..
<b>18-19 December 2017</b>	Attendance and com plated workshop: Planning, Delivering and Monitoring an Academic Professional Development Program. British Council/ University of Plymouth U.K
<b>12-13 February 2018.</b>	Attendance and com plated workshop: Leadership and Management. British Council/ University of Plymouth U.K

### WORK EXPERIENCE

Research assistant: <b>Jordan University of Science and Technology</b> , Faculty of Agriculture. Since 1/1/1998-24/12/2002. Irbid, Jordan. <a href="http://www.just.edu.jo">www.just.edu.jo</a>
Research assistant (PhD Student): <b>McGill University</b> , Faculty of Agricultural and Environmental Science, Montreal, Canada. 1/1/ 2003-2006 <a href="http://www.Mcgill.ca">www.Mcgill.ca</a>
Assistant Prof. Department of Biological sciences, <b>Al Hussein Bin Talal University</b> , Ma'an, P.O. Box 20, Jordan, 12/9/ 2007- 26/3/2013 <a href="http://www.ahu.edu.jo">www.ahu.edu.jo</a>
<b>European Union Grants Laisson Officer</b> , Jordan, Higher Council of Science and Technology-Support to Research and Technological Development (SRTD) project, 2008-2011.
Associate Prof. Department of Biological sciences, <b>Al Hussein Bin Talal University</b> , Ma'an, P.O. Box 20, Jordan, 27/3/ 2013- 2/7/2018. <a href="http://www.ahu.edu.jo">www.ahu.edu.jo</a>
Chair of Department of Biological Sciences, <b>Al Hussein Bin Talal University</b> 9/3/2014- 9/9/2014
Dean assistant, Faculty of science, <b>Al Hussein Bin Talal University</b> 1/9/2015-1/9/2016
Member in the university council at Al-Hussein bin Talal University, Maan, Jordan 14/9/2016-10/9/2017.
Director of Planning, Information and Quality Unit, Al Hussein Bin Talal University 14/9/2017-1/10/2018.
Chair of Department of Biological Sciences, <b>Al Hussein Bin Talal University</b> 11/12/2018 till now.
Full Professor, Department of Biological sciences, <b>Al Hussein Bin Talal University</b> , Ma'an, P.O. Box 20, Jordan 3/7/2018- till now.

### SOCIETY MEMBER

Member in the board of ISFAE (International Society of Food, Agriculture and Environment). Helsinki, Finland. 1/1/2004-present
Member of the American Biographical Institute, Inc. distinguished Research Board of Advisors. THE AMERICAN BIOGRAPHICAL INSTITUTE, NC, USA. 28, 6/2002-Present.
Member in the Jordan Agricultural Engineering Association. Amman, Jordan 1997-present.

Member in the Canadian Society of Agronomy, Canada, 14, 4/2003-present
Member in the Arab Scientists Organization, Syria, 25/12/2003-present
Member of the Global Network for Environmental Science and Technology, 2008-present.
Arab Science and Technology Foundation (ASTF), 2008-present.

#### **AWARDS, HONORS, GRANTS AND CITATIONS**

Financial Aid from <b>Japan Weed Science Society</b> to Publish article (Awnless barley ( <i>Hordeum vulgare</i> L.) response to hand weeding and 2,4-D application at two growth stages under Mediterranean environment) in <b>Weed Biology and Management</b> Journal. 2002.
Financial Aid from <b>Japan Weed Science Society</b> to Publish article (Inhibitory effects of aqueous extracts of black mustard on germination and growth of alfalfa) in <b>Weed Biology and Management</b> Journal. 2003.
<b>MCGILL GRADUATE STUDIES FELLOWSHIP FOR 2003-2006.</b>
Research Grants from <b>AL-Hussein Bin Talal University</b> (3230 JD) to carry out the project "Evaluate the potential of using natural elicitors as a means of increasing essential oil of selected Medicinal plant in North and South parts of Jordan". 3,230 JD. 2007.
Financial Aid from <b>SRTD Project</b> (Support to Research and Technological Development and Innovation Initiatives and Strategies in Jordan EU Funded Project) to attend <b>Research connection 2009</b> , 7-8 May, 2009, Prague Congress Centre, <b>Czech Republic</b> .
Financial Aid from <b>SRTD Project</b> (Support to Research and Technological Development and Innovation Initiatives and Strategies in Jordan EU Funded Project) to attend Framework Program Internship, Brussels Enterprise Agency, Brussel, Belgium, 6-13 June 2009. Aide à la Décision
Thanks Letter from President of Al Hussein Bin Talal University. 2008.
Thanks Letter from Editor in Chief of Jordan Journal of Agricultural Science. 2010.
Financial Aid from <b>German Research Foundation to spend three months as Visiting Researcher in</b> Institute of Plant Nutrition (Prof. Dr. Sven Schubert Laboratory), Justus Liebig University, Heinrich-Buff-Ring 26-32, Giessen D-35392, Germany, 3/6/2010-31-8/2010.
Financial Aid from <b>German Research Foundation to spend three months as Visiting Researcher in</b> Institute Organic Plant Production & Agroecosystems Research in the Tropics and Subtropics (Prof. Dr. Andreas Buerkert Laboratory) Steinstr. 19 University of Kassel <b>3 June - 30 August 2011.</b>
Financial Aid from the European Cooperation in Science and Technology (COST) to attend 4th MC meeting for COST Action ES1104 arid lands restoration and combat of desertification, Italy/17/9/2013.
Financial Aid from the European Cooperation in Science and Technology (COST) to attend Working Group 2/3 meeting and Steering Group meeting for COST Action ES1104 arid

lands restoration and combat of desertification, Portugal/25/2/2014
Financial Aid from the European Cooperation in Science and Technology (COST) to attend 5th Management Committee meeting for COST Action ES1104 arid lands restoration and combat of desertification, Romania /9/09/2014
Financial Aid from the European Cooperation in Science and Technology (COST) to attend WG meeting and conference Thessaloniki for COST Action ES1104 arid lands restoration and combat of desertification, Greece 28/4/2015
Financial Aid from the European Cooperation in Science and Technology (COST) to attend Steering Group/Working Group meeting for COST Action ES1104 arid lands restoration and combat of desertification, Turkey, 8/09/2015
Financial Aid from the European Cooperation in Science and Technology (COST) to attend Final conference and MC meeting for COST Action ES1104 arid lands restoration and combat of desertification, United Kingdom, 30/3/2016

**Funded conferences and meeting by European Union:**

<b><u>Membership of Editorial Boards</u></b>
<b>Regional Editor</b> for <b>International Journal of Agriculture and Biology</b> [ISSN: 156-8530], International Journal, A publication of Friends Science Publishers P-25, St. 8, Rabani Colony Bankers, Faisalabad, Pakistan. A peer reviewed bimonthly publishing journal. It has been accepted by chemical abstract, CABI, Swets Balckwell, BIOSIS, MOLBIOL, NET, e-journals database for abstracting and indexed respectively. 1/4/2003- 2007.
<b>Regional Editor</b> for <b>Journal of Agriculture and Social Science</b> [ISSN: 1813-2235]. A publication of Friends Science Publishers P-25, St. 8, Rabani Colony Bankers, Faisalabad, Pakistan. 21/11/2004-2007..

<p><b>Regional Editor</b> for <b>Asian Journal of Plant Science</b>, [ISSN: 1682-3974], International Journal, A publication of Asian Network for Scientific Information, Located in Faisalabad, Pakistan and New York, USA. 1/1/ 2004-1/1/2005</p>
<p><b>Regional Editor</b> for <b>Bioscience Research</b>, [ISSN: 1811-9506] International Journal, A publication of Innovative Scientific information and Services network (ISISnet), Faisalabad, Pakistan. 20/6/ 2004- 2010.</p>
<p><b>Regional Editor</b> for the scientific <b>Journal of Food, Agriculture and Environment</b>, which belong to the International Society of Food Agriculture and Environment, Helsinki, Finland. 12/9/2005-present.</p>
<p><b>Associate Editor</b> for <b>Communications in Biometry and Crop Science</b>, journal, the official publisher is the Faculty of Agriculture and Biology of the Warsaw Agricultural University (WAU), Nowoursynowska 159, 02-776 Warsaw, Poland.</p>
<p><b>Member in the Editorial Board</b> of <b>African Journal of Biotechnology</b>, A publication of Academic Journals. 1/3/ 2003-1/9/2003.</p>
<p><b>Member in the Editorial Board</b> of the scientific <b>Journal of Food, Agriculture &amp; Environment (JFAE)</b>, A publication of International Society of Food, Agriculture and Environment, Helsinki, Finland. 1 /1/2004-present</p>
<p><b>Member in the Editorial Board</b> of <b>Research on Crop</b>, International Journal A publication The "Gaurav Society of Agricultural Research Information Centre (ARIC)," Hisar, India. 1/1/2004-2010,</p>
<p><b>Member in the Editorial Board</b> of <b>European Journal of Scientific Research</b>, Publisher: Lulu Press, Inc. Morrisville, Austria</p>
<p><b>Executive Editor</b> <b>Indian Journal of Crop Science</b>, 1/1/2006-Present.</p>
<p><b>Member of Advisory Board</b> for <b>International Journal of Agriculture and Biology</b> [ISSN: 156-8530], International Journal, A publication of Friends Science Publishers P-25, St. 8, Rabani Colony Bankers, Faisalabad, Pakistan. A peer reviewed bimonthly publishing journal. It has been accepted by chemical abstract, CABI, Swets Balckwell, BIOSIS, MOLBIOL, NET, e-journals database for abstracting and indexed respectively. 1/1/2007- Present.</p>
<p><b>Member of Advisory Board</b> for <b>Journal of Agriculture and Social Science</b> [ISSN: 1813-2235]. A publication of Friends Science Publishers P-25, St. 8, Rabani Colony Bankers, Faisalabad, Pakistan. 2007-2010.</p>
<p><b>Editor</b> in Chief of Australian Journal of Scientific Research, 1/1/2006-Present.</p>
<p><b>Associate Editor-in-Chief</b> of <b>Research on Crop</b>, International Journal A publication The "Gaurav Society of Agricultural Research Information Centre (ARIC)," Hisar, India. 1/1/2010- till now.</p>

**International Reviewer:**

<p>International Reviewer for <b>Revista Ciencia Rural</b> (The Scientific Journal of the Agricultural Center, Federal University of Santa Maria, RS, Brazil.</p>
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International Reviewer for <b>Australian Journal of Agricultural Research</b> , published by <u>CSIRO PUBLISHING</u> , Australia 1/5/ 2003- present.
International Reviewer for <b>Acta Biotechnologica</b> , 10/8/ 2003- present.
International Reviewer for <b>African Crop Science Journal</b> , 11/8/2003-present.
International Reviewer for <b>Agronomie Journal</b> , Published by EDP Sciences, France. 12/12/2003-present
International Reviewer for <b>New Zealand Journal of Crop &amp; Horticultural Science</b> , New Zealand.
International Reviewer for <b>Environmental and Experimental Botany Journal (EEB)</b> , Published by EDP Sciences, France.
<b>Journal of Agronomy and Crop Science</b> . Published by Blackwell Publishing, Germany.

## LANGUAGES

Arabic: mother language

English: Very good

## Research Interest:

<b>Dr Abdel Rahman Al-Tawaha research interests are in the area of crop eco-physiology. They can be broken down into several specific areas of activity.</b>
<b>One of these is the development of Mediterranean flora as a source of nutraceuticals. Nutraceuticals can be defined as any non-toxic food component that has health promoting, disease preventing or medicinal properties. Such products may include any natural bioactive chemical compounds including isoflavones. Flavonoids are natural products that are widely distributed in the plant kingdom, it consist of major subgroups: chalcone, flavone, flavonol, flavanone, anthocyanins and isoflavone. The main objective of our research in this area. To identify strategies that will allow the production of Mediterranean flora with high isoflavone concentrations, with the goal of developing a new value-added niche market for agricultural producers of Middle East</b>
A second area is to evaluate the potential of using natural elicitors as a means of increasing plant growth. Being involved in plant defence response and plant-microbe interactions, flavonoid production by plants (including isoflavones) may be increased when plants recognize certain molecules or structures that characterize a pathogen or a symbiont; such compounds are known as elicitors. Consequently the use of biotic or abiotic elicitors of plant defence response has been evaluated for a number of years as a pest biocontrol strategy
<b>A third area is the evaluation of new crop species for South part of Jordan. Here our research will focus on adapted forage species including Cactus, Fodder beet, Mustard and Oat, and industrial crop such as Jojoba. Research areas include cultivar evaluation, crop nutrition and new species evaluation.</b>
Arid Lands Restoration and Combat of Desertification: Traditional and Innovative Systems: Plants, Ecology and Microclimate Manipulation for Enhanced Vegetation Establishment Think-Tank
<b>Forests, Their Products And Services Non-native tree species - experiences, risks and opportunities:</b>
<b>Payments for Ecosystem Services (Forests for Water): Payment Ecosystem Service Environmental Effectiveness</b>

Forests, Their Products And Services A global network of nurseries as early warning system against alien tree pests (Global Warning);
CLIMATE-SMART INNOVATIVE SCHEMES OF PAYMENT FOR ENVIRONMENTAL SERVICES (PES identify knowledge, attitudes, behaviours and priorities among farmers regarding safety,health and risk management
Modifying plants to produce interfering RNA.
EuroXanth: Integrating science on Xanthomonadaceae for integrated plant disease management

#### Teaching:

1. Plant Physiology
2. Plant Anatomy
3. General Science
4. Plant Morphology
5. Economic and Medicinal Plants
6. General Biology Practical 101
7. *General Biology 101*
8. General Biology 102
9. General Biology Practical 102
10. Ecological Sciences
11. Management of Desert environment

#### Seminar Presented:

<b>Department of Biological sciences, Al Hussein Bin Talal University, Maan Jordan.</b>	Factors affecting isoflavones concentration in soybean.	March, 2007
<b>Al Hussein Bin Talal University, Maan Jordan</b>	FP7: Seventh Framework Programme for Research and Technological Development. European Union's main instrument for funding research in Europe between 2007 & 2013	May, 2010
<b>Institute of Plant Nutrition Justus Liebig University, Heinrich-Buff-Ring 26-32, Giessen D-35392,</b>	Effect of salinity and natural elicitor on Growth and chemical composition of Maize	16, June, 2010

Germany .		
"Politehnica" University of Timisoara, Romania,	Integrated Crops Production and Management Technology under Dry land condition	9-11 Sep 2014.
Al Hussein Bin Talal University, Maan Jordan	Quality Assurance in Higher Education in Jordan	28/11/2107

## LIST OF SCIENTIFIC PUBLICATIONS

### In Journals:

211	Abdel Rahman M. Al-Tawaha, Amanullah, Imran, Abdelrazzaq Al-Tawaha, Shah Khalid, Abdur Rauf, Devarajan Thangadurai, Jeyabalan Sangeetha, Samia Khanum, Samar Ghanem, Asmaa Sharf-Eldin. 2020. Adapting crop management practices to climate change. <i>Advances in Environmental Biology</i> 14(7): 10-17
210	Imran, Amanullah, and Abdel Rahman Al Tawaha, 2020. <b>Carbon Sources Application Increase Wheat Yield and Soil Fertility.</b> <i>Communications in Soil Science and Plant Analysis</i> . Accepted
209	Imran, Amanullah, Asad Ali khan, Tariq Mahmood and Abdel Rahman Al Tawaha, Samia Khanum. 2020. <b>Adequate Fertilization, Application Method and Sowing Techniques Improve Maize yield and related traits.</b> <i>Communications in Soil Science and Plant Analysis</i> . Accepted.
208	Minh Quang Chau, Van Vang Le, Anh Tuan Hoang, Abdel Rahman M. S Al-Tawaha, Van Viet Pham. 2020. <b>A simulation research of heat transfers and chemical reactions in the fuel steam reformer using exhaust gas energy from motorcycle engine</b> <i>Journal of Mechanical Engineering Research and Developments Vol. 43, No. 5, pp. 89-102</i>
207	Saranraj, P., Amala, K., Sivasakthivelan, P., & Al-Tawaha, A. R. M. (2020). Analysis of Drinking Water Quality in Tirupattur District During Winter Season. <i>Tathapi with ISSN 2320-0693 is an UGC CARE Journal, 19(44), 254-265.</i>
206	Saranraj, P., Sivasakthivelan, P., & Al-Tawaha, A. R. M. (2020). Drinking Water Quality Analysis and Moringa oleifera Seed Based Biotreatment. <i>Tathapi with ISSN 2320-0693 is an UGC CARE Journal, 19(44), 266-275.</i>
205	Singh, B., Upadhyay, A. M., Al-Tawaha, T. W., Al-Tawaha, A. R., & Sirajuddin, S. N. (2020, April). Biofertilizer as a tool for soil fertility management in changing climate. In <i>IOP Conference Series: Earth and Environmental Science</i> (Vol. 492, No. 1, p. 012158). IOP Publishing.
204	Al-Tawaha, A. R. M., Al-Tawaha, A., Sirajuddin, S. N., McNeil, D., Othman, Y. A., Al-Rawashdeh, I. M Amanullah, Imran, Qaisi A M, Jahan N, Shah M A, Khalid S, Sami R, Rauf A, Thangadurai D, Sangeetha J, Fahad S, Youssef R A, Al-Taisan W A, Al-Taey D K A (2020, April). Ecology and adaptation of legumes crops: A review. In <i>IOP Conference Series: Earth and Environmental Science</i> (Vol. 492, No. 1, p. 012085). IOP Publishing.
203	Abdel Rahman M. Al-Tawaha, Nusrat Jahan, Nidal Odat, Ezz Al-Dein Al-Ramamneh, Abdel Razzaq Al-Tawaha, Yousef M. Abu-Zaitoon, Khalid Fandi, Mohammad Alhawatema, Amanullah, Abdur Rauf, Mohammad Wedyan,

	Mohammad Ali Shariati, Ali M. Qaisi, Imran, Khaled Tawaha, Munir Turk, Samia Khanum.2020.Growth, Yield and Biochemical Responses in Barley to DAP and Chitosan Application Under Water Stress.Journal of Ecological Engineering. Volume 21, Issue 6, pages 86–93.
202	Nurhapsa, Andi Nuddin, Suherman, Sitti Nurani Sirajuddin, Abdelrazzaq M. Al-Tawaha, and <b>Abdel Rahman M. Al-Tawaha</b> .2020. Factors affecting coffee use income: a case study in the province of South Sulawesi, Indonesia. <i>Eco. Env. &amp; Cons. 26 (Suppl. Issue) :S265-S272</i>
201	Imran, Amanullah, and <b>Abdel Rahman Al Tawaha</b> .2020. The Productivity of subsequent wheat enhanced with residual carbon sources and phosphorus under improved irrigation system. Communications in Soil Science and Plant Analysis.Accepted.
200	Saud Bawazeer, Abdur Rauf, Saima Naz, Anees Ahmed Khalil, Yahia Nasser Mabkhot, Abdurhman Asayari, Abdullatif Bin Muhsinah, Hamed Algarni , Abdel Rahman Al-Tawaha, Naveed Muhammad , Ashfaq Ur Rehman, Abdul Wadood, Sergey Plygun, Mohammad Ali Shariati.2020. In vivo anti-nociceptive potential and cyclooxygenases 1 and 2 selectivity of di-naphthodiospyrols from Diospyros lotus. <i>Rev. Bras. Farmacogn. (2020)</i> . <a href="https://doi.org/10.1007/s43450-020-00057-x">https://doi.org/10.1007/s43450-020-00057-x</a>
199	Sadia Hassan, Ahsan Anwar, Muhammad Bilal Hussain, Marwa Waheed, Muhammad Abrar Asif Khan, Abdel Rahman Al-Tawaha, Asan Ospanov, Anuarbek Suychinov, Mohammad Ali Shariati 2020.TRADITIONAL AND MODERN TECHNIQUES FOR EXTRACTION AND ISOLATION OF RICE In: Aroma, Flavour and Fragrance of Rice: Perspectives Research, Recent Advances and Technological Development. Editor Deepak Kumar Verme Apple Academic Press, USA
198	Imran, Amanullah, Tariq Mahmood and Abdel Rahman Al Tawaha, Abdel Razzaq Al-Tawaha, Ali M.Qaisi' 2020.Biotechnology and nanotechnology accountable for food security of aromatic rice production. In: Aroma, Flavour and Fragrance of Rice: Perspectives Research, Recent Advances and Technological Development. Editor Deepak Kumar Verme Apple Academic Press, USA
197	Imran, Amanullah, Abdel Rahman Al-Tawaha, Asad Ali Khan, Abdel Razzaq Al-Tawaha, Ali M.Qaisi 2020. Advance Biochemical and Molecular Biology of Rice Aroma, Fragrance and Flavour under temperate environment. In: Aroma, Flavour and Fragrance of Rice: Perspectives Research, Recent Advances and Technological Development. Editor Deepak Kumar Verme Apple Academic Press, USA
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#### In Conferences:

17	National Conference on Beneficial Microbes & Sustainable Crop Production, February 19-20, 2020 ... The Department of Agronomy, Faculty of Crop Production Sciences, The University of Agriculture PeshawarAt: Pakistan. <b>EFFECTS OF SOIL TYPE AND CHITOSAN TREATMENTS IN THE GROWTH, PRODUCTIVITY OF WHEAT PLANTS CULTIVATED IN SEMIARID ENVIRONMENT.</b> Abdel Rahman M. Al- Tawaha, Abdel Razzaq Al-Tawaha , Amanullah, Imran , Shah Khalid, Alla Aleksanyan, Samia Khanum, Mohammad Ali Shariati. Page77
16	National Conference on Beneficial Microbes & Sustainable Crop Production, February 19-20, 2020 ... The Department of Agronomy, Faculty of Crop Production Sciences, The University of Agriculture PeshawarAt: Pakistan. <b>EFFECTS OF SOIL TYPE AND YEAST EXTRACT TREATMENTS IN THE GROWTH, PRODUCTIVITY OF FENUGREEK PLANTS CULTIVATED IN SEMI-ARID ENVIRONMENT</b> Abdel Rahman M. Al- Tawaha, Abdel Razzaq Al- Tawaha , Amanullah, Imra3 , Alla Aleksanyan, Laila Trioui, Soha A. Murad, Saeedeh Rahimzadeha. Page76
15	National Conference on Beneficial Microbes & Sustainable Crop Production, February 19-20, 2020 ... The Department of Agronomy, Faculty of Crop Production Sciences, The University of Agriculture PeshawarAt: Pakistan. <b>ACTINOMYCETES AS MEANS OF INCREASING YIELD AND</b>

	<b>YIELD COMPONENTS AND DECREASING THE DISEASE INCIDENCE OF LENTIL PLANTS</b> Abdel Rahman M. Al- Tawaha, Nusrat Jahan, Ezz Al-Dein Al-Ramamneh, Abdel Razzaq Al-Tawaha, Yousef M Abu-Zaitoon, Amanullah, Shah Khalid, Imran 5. H. Nasri 6 Swapnil Ganesh Sanmukh page 75
14	National Conference on Beneficial Microbes & Sustainable Crop Production, February 19-20, 2020 ... The Department of Agronomy, Faculty of Crop Production Sciences, The University of Agriculture Peshawar At: Pakistan. <b>GROWTH, YIELD AND BIOCHEMICAL RESPONSES IN BARLEY TO DAP AND CHITOSAN APPLICATION UNDER WATER STRESS</b> Abdel Rahman M. Al- Tawaha, Nusrat Jahan, Ezz Al-Dein Al-Ramamneh, Abdel Razzaq Al- Tawaha, Yousef M Abu-Zaitoon, , Amanullah, and Imran page 74
13	<b>1st PlantEd Conference Plant Genome Editing - State of the Art.</b> University of Novi Sad, Central Building, Serbia. <b>Date:</b> 5-7 November 2019. <b>Abdel Rahman Al -Tawaha. Applications of genome editing in plant: benefit, risk and safety considerations, page 60.</b>
12	<b>International Conference on Agricultural, Environment and Biological Sciences (ICAEB'S'2012)</b> May 26-27, 2012 Phuket .Effects of Site and Exogenous Application of Yeast Extract on the Growth and Chemical Composition of Soybean. Abdel Rahman M. Al-Tawaha and 2 Faisal Ababneh
11	Effect of moisture stress on germination and seedling growth of Lentils. MUNIR TURK AND ABDEL RAHMAN TAWAHA. 2010. <b>The 5<sup>th</sup> International Food Legumes research Conference. 26-30 April 2010. Antalia. Turkey</b>
10	<b>China-Asia Science &amp; Technology Cooperation Forum 2009 .Jordan INVESTMENT Conference 2009 INTERNATIONAL.</b> The forum will focus on promoting direct interaction between Chinese and Jordanian companies, and will also facilitate discussion of specific issues of common interest between Jordanian and Chinese business leaders in the ICT, Innovation, Energy, Science & Technology, bio Technology and Agriculture sectors. 11/11/2009. King Hussein Center, Dead Sea, Jordan. <b>Just Attendance.</b>
9	<b>MEDA GO TO Europe Workshop</b> (October /2009) MEDA Go To EUROPE's partners from 16 countries are met in Jordan for a transnational training session (Wednesday Oct 14, 2009). Amman Jordan. <b>Just Attendance.</b>
8.	<b>Research connection 2009</b> , 7-8 May, 2009, Prague Congress Centre, <b>Czech Republic.</b> Just Attendance.
7.	ABDEL RAHMAN AL-TAWAHA, P. SEGUIN. 2008. <i>Effect of Growth Stage and Pod Position on Soybean Seed Isoflavone Concentration.</i> THE 1ST INTERNATIONAL SYMPOSIUM ON MEDICINAL PLANTS, THEIR CULTIVATION AND ASPECTS OF USES PETRA MARRIOT HOTEL PETRA–JORDAN 15-16 October, 2008.
6	Aludatt M, Ereifej K, Arababeh T., <b>Abdel Al-Tawaha.</b> 2008. Effects of Supplementation of Milk and Soybean Proteins on Chemical, Functional and

	Baking Properties of Jordanian wheat Flour. CSCN-CSNS Annual Scientific Meeting." The Road to Excellence in Canadian Nutrition ". May-29-30. <b>Toronto, Ontario, Canada.</b>
5	M.A. TURK, R. SEN, <b>A.M. TAWAHA.</b> Using Roselle ( <i>Hibiscus sabdariffa</i> L.) in urban and Peri Urban Horticulture 2005. National Seminar on: Peri Urban Agriculture: Rural – Urban Synergy in Enhancing Food Security. Organized by: Amity School of Rural Management in Collaboration with NABARD, June 9-10, 2005, <b>New Delhi, India.</b> Page 69-73. (Invited Speaker).
4	MUNIR TURK AND <b>ABDEL RAHMAN TAWAHA.</b> 2004. Effect of variable sowing ratios and sowing rates of bitter vetch on the herbage yield of oat-bitter vetch mixed cropping. Proceeding 7 th International Oat Conference. 17-22 July 2004, <b>Helsinki, Finland,</b> page 236.
3	P. SEGUIN, W. ZHENG. A. SOULEIMANOUV, D. L. SMITH AND <b>A.M. TAWAHA.</b> 2003. Effects of cultivars and fertilization on soybean isoflavone content. The Fourth International Conference on Mycorrhizae ICOM4-August 10-15, 2003, <b>Montreal, Quebec, Canada,</b> Page, 393.
2	<b>A. M.TAWAHA.</b> AND M. A. TURK. 2002. Evaluation of two barley genotypes in response to 2, 4-D application at different growth stages. The 5 th Scientific Day, Faculty of Agriculture, Jordan University of Science and Technology, 14 May, <b>Irbid, Jordan.</b> 2002, P-24,
1	<b>TAWAHA, A. M.</b> 2001. Evaluation of ten barley genotypes in response to fertilization and herbicide application. The Fourth International Agriculture Scientific Conference (Scientific Research for Safe Agriculture Production). Jerash Private University - Faculty of Agriculture and Science, 24-26 April 2001, <b>Jerash , Jordan .</b> As Poster.

#### National and International Committee

1. Member in the Organizing Committee" **The 1st International Symposium on Medicinal Plants, Their Cultivation and Aspects of Uses** Ash-Shoubak University College, Al-Balqa' Applied University, Ashoubak, Jordan 15 – 16 October 2008".
2. Member in the Scientific Committee "**The 1st International Symposium on Medicinal Plants, Their Cultivation and Aspects of Uses** Ash-Shoubak University College, Al-Balqa' Applied University, Ashoubak, Jordan 15 – 16 October 2008".
3. Consultant for the regional project '**Saving fresh water resources with salt-tolerant forage production in the West Asia and North Africa Region:** an opportunity to raise the income of the rural poor', supported by the International Fund for Agricultural Development (IFAD), Arab Fund for Economic and Social development (AFESD), OPEC Fund for International Development (OFID), International Center for Biosaline Agriculture (ICBA) and the National Center for agricultural Research and Extension (NCARE) in Jordan.
4. Member in the Scientific Committee "**The 2nd International Symposium**

**on Medicinal Plants, Their Cultivation and Aspects of Uses (The 2nd ISMP)** November 3-4, 2010  
Petra Marriott Hotel-Petra, Jordan Ash-Shoubak University College Al-Balqa' Applied University Ash-Shoubak , Jordan.

5. Member in the Scientific Committee "**The 3rd International Symposium on Medicinal Plants, Their Cultivation and Aspects of Uses (The 3rd ISMP)** 21-23 November Beit Zaman Hotel & Resort, Petra - , Jordan Ash-Shoubak University College Al-Balqa' Applied University Ash-Shoubak , Jordan.

6. Head of Scientific Committee at First **National Conference on New Results in Agronomy**, 15 to 18 November 2011. Islamic Azad University, Shahr-e-Qods Branch, Tehran.

7. Member in the Scientific Committee 1st International **Symposium on Horticultural Insects Management** (ISHIM 2012) 19-22 November, 2012, Amman – Jordan

8. **MC Observer** for COST Action ES1104 Arid Lands Restoration and Combat of Desertification: Setting up a Drylands and Desert Restoration Hub. COST is an intergovernmental framework for European Cooperation in Science and Technology which was established to initiate networking and coordination of nationally funded research activities on a European level.

9. Attendance COST ES1104 'Arid Lands Restoration and Combat of Desertification 'Management Committee Meeting, Bari, Italy 17-18 September 2013.

10. Attendance COST Action ES1104 : Arid Lands Restoration and Combat of Desertification'; Working Group Meetings in Lisbon University of Lisbon, Portugal, on 25-26 February 2014.

11. Keynote Speakers for the Accounting, Economics and Financial Management Conference will be held in Tehran, Iran 26-27 October, 2014.

12. Honorary Conference Advisor for International Conference on Business, Science and Technology 25/26/4/2014 Hatyai, Thailand .

13. Attendance COST ES1104 'Arid Lands Restoration and Combat of Desertification 'Management Committee Meeting, Timisoara, Romania, 9 – 11 September 2014.

14. Executive n stuff for 1st International Conference on Economics, Management, Accounting and Social Sciences (EMASS 2014), **June 21, 2014 Location: Hekamt Hall, The University of Guilan, Rasht, Iran**

[http://emass.ir/en/org\\_chart.php](http://emass.ir/en/org_chart.php)

15. Honorary Advisor for International Conference on Agriculture, Biotechnology, Science and Engineering 2014, Ho Chi Minh City, Vietnam August 29-30, 2014.

16. Honorary Advisor for International Conference on Business, Banking and Finance 2014, Ho Chi Minh City, Vietnam August 29-30, 2014.

17. Honorary Advisor for International Conference on Mathematics and Statistics 2014, Ho Chi Minh City, Vietnam August 29-30, 2014.

18. Honorary Advisor for International Conference on Materials, Mechatronics, Manufacturing and Mechanical Engineering 2014, Kuching, Malaysia October 24-25, 2014.

19. Honorary Advisor for International Conference on Industrial Technology and Applications 2014, Kuching, Malaysia October 24-25, 2014.



20. Member of the **Organizing Committee** The 1st International Conference on Communication and Computer Engineering (ICOCOE), May 20-21, 2014 Melaka Malaysia.  
<https://ekoharsono.wordpress.com/2013/11/01/the-1st-international-conference-on-communication-and-computer-engineering-icocoe-2014-may-20-21-2013-melaka-malaysia/>
21. **International Committee**, International Conference on Recent Trends in Information and Communication Engineering will be held during **27th March 2015** in Jayaraja Annappaiah CSI College of Engineering, Nazareth, Tuticorin Dt, TamilNadu, India. ITICE'15.  
<http://itice15.jacsice.in/technical-committees.html>.
22. Attendance COST Action ES1104 : 'Arid Lands Restoration and Combat of Desertification'; Working Group Meetings in Antalya, Turkey, 8-10/9/2015.
23. The final conference and MC meeting of COST Action ES1104 at the University of Greenwich, London, on 30 and 31 March 2016.
34. Attendance COST Action : FP1403 (NNEXT) 'Non-native tree species for European forests - experiences, risks and opportunities (NNEXT ) Working Group Meeting in Lisbon, Portugal, on Tuesday 4th and Wednesday 5th of October 2016.
25. Attendance COST Action : 'CLIMO Climate-Smart Forestry in Mountain Regions' CA15226 in San Michele all'Adige (TN). Italy February, 7-8 2017.
26. . Attendance first full meeting (Workshops, Working Group Meetings and Management Committee) of COST Action 15206, PESFOR-W (Payments for Ecosystem Services (Forests for Water) – 14 rue Girardet – 54000 Nancy – France on Tuesday 28th February and 1st March, 2017.
27. 31st session of EFC/FAO Working Party on the Management of Mountain Watersheds, Prague (Czech Republic), September 4-6, 2017.
28. Attendance full meeting (Workshops, Working Group Meetings and Management Committee) for COST Action FP1401 'Forests, Their Products And Services A global network of nurseries as early warning system against alien tree pests (Global Warning), in Offenburg, Germany, 15-16 September 2017.
29. Attendance second full meeting (Workshops, Working Group Meetings and Management Committee) of COST Action 15206, PESFOR-W (Payments for Ecosystem Services (Forests for Water) Opatija, Croatia on 17th, 18th and 19th October 2017.
30. Attendance, third full meeting (Workshops, Working Group Meetings and Management Committee) of COST Action 15206, PESFOR-W (Payments for Ecosystem Services (Forests for Water) Castelfranco Veneto, Italy, From 12th to 15th March 2018.
31. Attendance, fourth full meeting (Workshops, Working Group Meetings and Management Committee) of COST Action 15206, PESFOR-W (Payments for Ecosystem Services (Forests for Water) Jæren Hotel, Solhøgda 3, 4340 Bryne, Norway From 3rd to 5th July 2018.
32. Attendance Final (8th) MC Meeting/International Conference COST Action FP1403 (NNEXT) 'Non-native tree species for European forests – experiences, risks and opportunities' Vienna, Austria 12 – 14 September 2018.
33. Attendance, Working Group 4 meeting of the CLIMO COST Action in Hotel Cristal Porto, Travessa Antero de Quental, 360, 4000-087 Porto, Portugal, on the 5<sup>th</sup> and 6<sup>th</sup> of March, 2019

## Funded Project:

### 1. COST Action ES1104 Earth System Science And Environmental Management Arid Lands Restoration and Combat of Desertification: Setting Up a Drylands and Desert Restoration Hub.

<b>Start Date:</b>	3 April 2012	<b>End Date:</b>	2 April 2016
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There is great need to restore existing despoiled drylands and to combat increasing desertification. Restoring habitats improves biodiversity, increases carbon sequestration, enhancing the quality of life for people. An essential measure is the planting of and reestablishment of vegetation. The successful establishment of vegetation in arid areas is complex requiring the multi-disciplinary skills of arid land experts with various capabilities (soils, hydrology, ecology etc.) However, vegetation restoration techniques in arid areas requires review and development. This Action is required as access to information is acutely limited, disjointed and new techniques are available and not universally tested. This Action aims to create an 'Arid Lands Restoration Hub' to provide the science and practical guidance for dryland restoration and combat of desertification through a dynamic and productive international network of initially 29 participants from 15 COST countries and 2 partners from outside Europe. The Action will deliver an integrated database within a harmonized information hub of current and new methods and techniques of restoration, trials and field studies, assessment indicators, academic and practical publications, and tools to identify and support practical restoration projects and decision makers in planning and restoring drylands and the combat of desertification. The Action promotes open knowledge, innovation in procedures and methods for improved restoration in dry lands.

### 2. COST Action FP1403 Forests, Their Products And Services Non-native tree species for european forests – experiences, risks and opportunities (NNEXT)

<b>Start Date:</b>	21 November 2014	<b>End Date:</b>	20 November 2018
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The management of tree species non-native to European geographical regions has a long tradition within forestry management practice. Their introduction to Europe (initially focussed on growing tree species) dates back to the 18th century when enormous demands were being made on natural resources to sustain the on-going industrialization of Europe. Today issues of biomass production and C sequestration as well as the question of whether these species could increase the adaptive capacity of forests to long-term climate change patterns have fuelled a growing interest in non-native tree species in Europe. In order to determine their fullest potential (and

associated management options, but also assess associated risks and challenges) the need for a communication platform – allowing for discussions with stakeholder groups from within and beyond European borders; is argued.

### **3. COST Action FP1401 Forests, Their Products And Services**

#### **A global network of nurseries as early warning system against alien tree pests (Global Warning).**

<b>Start Date:</b>	2 December 2014	<b>End Date:</b>	1 December 2018
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The international trade in live plants is a major pathway for the introduction of invasive tree pests and pathogens, resulting in environmental and economic damage. Many recently introduced pests and diseases were not known to be harmful, or unknown to science, and were not regulated before they invaded, indicating that the current system to identify harmful species does not provide sufficient protection from invasions by alien pests and pathogens. A novel way of identifying potentially harmful organisms for regulation is by monitoring European trees planted in regions that export plants to Europe. The Action will 1) establish a global network of scientists and regulators in countries where sentinel nurseries could be established from seed or where there are botanical gardens or arboreta with exotic trees, 2) develop common protocols for the monitoring and identification of pests and 3) explore ways to regulate the establishment of such nurseries and the use of data collected through them. This Action will also bring together detailed information about the international trade in trees and the environmental value of native trees in Europe. The Action will produce written, electronic and workshop outputs, as well as at least five short-term scientific missions per year.

### **4. COST Action CA15226 COST Association**

#### **Climate-Smart Forestry in Mountain Regions**

<b>Start Date:</b>	17 October 2016	<b>End Date:</b>	16 October 2020
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Climate-Smart Agriculture (CSA) integrates the three-dimensions of sustainable development (economic, social and environmental), and aims at sustainably increasing agricultural productivity and incomes, adapting and building resilience to climate change (CC), and reducing greenhouse gas emissions. CLIMO wants to translate the CSA concept for a Climate-Smart Forestry (CSF). Three main pillars will be considered: improve livelihood of mountain inhabitants by sustainably increasing forest ecosystem services (ES); enhance the adaptation and resilience to CC of mountain forests; optimise the CC mitigation potential of mountain forests, focusing on the most efficient and cost-effective mitigation options and capitalising on adaptation-mitigation synergies. The main objective is to define CSF in the European context, which will require the

identification of key silvicultural characteristics and the harmonisation of CSF in mountain areas to create a common knowledge at European level. The “smartness” of the European forests will be defined according to the sustainability of forest management and mitigation potential. The “smartness” will be defined on the basis of measurable criteria and a checklist of parameters of “smartness” for mountain forests will be proposed. Experimental forest sites with available data to quantify the “smartness” of mountain forests will be identified to build a European Smart Forest Network (ESFONET). A feasibility study for the development of a cyber-technology able to quickly transfer data from monitoring sites to stakeholders will be developed. Innovative schemes of payment for ES (PES) will be developed to shift the objective of mountain forest management from the production of timber to the production of ES.

#### 5. COST Action CA15206 COST Association Payments for Ecosystem Services (Forests for Water)

<b>start Date:</b>	18 October 2016	<b>End Date:</b>	17 October 2020
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The EU Water Framework Directive aims to ensure restoration of Europe’s water bodies to “good ecological status” by 2027. Many Member States will struggle to meet this target, with around half of EU river catchments currently reporting below standard water quality. Diffuse pollution from agriculture represents a major pressure, affecting over 90% of river basins. Accumulating evidence shows that recent improvements to agricultural practices are benefiting water quality but in many cases will be insufficient to achieve WFD objectives. There is growing support for land use change to help bridge the gap, with a particular focus on targeted tree planting to intercept and reduce the delivery of diffuse pollutants to water. This form of integrated catchment management offers multiple benefits to society but a significant cost to landowners and managers.

New economic instruments, in combination with spatial targeting, need to be developed to ensure cost-effective solutions – including tree planting for water benefits – are realised. Payments for Ecosystem Services (PES) are flexible, incentive-based mechanisms that could play an important role in promoting land use change to deliver water quality targets. The PESFOR-W COST Action will consolidate learning from existing woodlands for water PES schemes in Europe and help standardize approaches to evaluating the environmental effectiveness and cost-effectiveness of woodland measures. It will also create a European network through which PES schemes can be facilitated, extended and improved, for example by incorporating other ecosystem services linking with aims of the wider forests-carbon policy nexus.

## اللجان:

### على مستوى الجامعة:

2. ضابط ارتباط مشروع "دعم مبادرات واستراتيجيات التطوير التكنولوجي والابداع" في جامعة الحسين بن طلال لدى المجلس الأعلى للعلوم والتكنولوجيا.

### "Support to Research and Technological development & Innovation Initiative & Strategies in Jordan (SRTD)" Project

3. عضو لجنة إنشاء معهد للدراسات الصحراوية تابع لجامعة الحسين بن طلال 2008.
4. رئيس لجنة امتحان الكفاءة الجامعية/ كلية العلوم 2015-2016.
5. عضو لجنة مهمتها دراسة الخطة الاستراتيجية لمركز تطوير اداء اعضاء هيئة التدريس .
6. عضو لجنة مهمتها تحديد الأولويات في التخصصات التي تحتاجها الجامعة لعام 2018.
7. ضابط ارتباط جامعة الحسين مع وزارة التعليم العالي لمتابعة كافة الملاحظات والمخالفات بحق الجامعة وذلك للفصلين الاول والثاني من الاعوام الجامعية (2015/2016/2017)
8. عضو مجلس مركز تطوير اداء اعضاء هيئة التدريس 2018/4/18 حتى الان

: 11"/9/14

- انجاز التقرير السنوي للجامعة 2017.
- انجاز التقييم الذاتي للجامعة 2017.
- انجاز تقرير حقائق وارقام جامعة الحسين 2017.
- انجاز الوثائق المتعلقة بالتصنيف الاردني للجامعات.
- استلام وتوزيع شهادات الكفاءة للطلبة 423 طالبا.
- انجاز استبانة تم توزيعها على 300 طالب من الذين شاركوا في امتحان الكفاءة وتحليلها للحصول على تغذية راجعة عن امتحان الكفاءة.
- تزويد هيئة اعتماد مؤسسات التعليم العالي بتغذية راجعة من كليات الجامعة المختلفة لكل تخصص وتضمينها لامتحان الكفاءة الجامعية في الدورات القادمة.
- التنسيق مع مجالس الجامعة المختلفة وهيئة اعتماد مؤسسات التعليم العالي وضمان جودتها ووزارة التعليم لإنشاء كلية القانون.
- التنسيق مع كليات الجامعة المختلفة وهيئة اعتماد مؤسسات التعليم العالي وضمان جودتها لزياره الجامعة وذلك للنظر في تحديد الطاقة الاستيعابية للعديد من التخصصات.

التنسيق مع كليات الجامعة المختلفة لاستحداث برامج الماجستير حيث تم اخذ موافقة مجلس الامناء لاستحداث برنامج الماجستير في اللغة الانجليزية/الدراسات الأدبية المقارنة و ماجستير ادارة المعلومات والارشافة الرقمية وماجستير الفيزياء وتم التسجيل الكترونيا للبرنامجين في موقع الهيئة

- القيام بعرض إلكتروني ل ( امتحان الكفاءة الجامعية ) للخريجين للتعريف بالامتحان وآليته ومستوياته وأهدافه في مسرح عمادة شؤون الطلبة في جامعة الحسين بتاريخ 2017/11/13 م .

- المشاركة في مؤتمر ( Microsoft Academic day ) في فندق Fairmont في عمان 2017/11/23 .
- قام الدكتور الدكتور عبدالرحمن الطواها مدير الوحدة بإعطاء دورة تدريبية عن معايير الجودة في مؤسسات التعليم العالي استهدفت أكثر من 30 محاضر وأستاذ مساعد من أعضاء هيئة التدريس في الجامعة بتاريخ 2017/11/28 .
- المشاركة في الإجتماع مع سعادة المستشار الثقافي الصيني في السفارة الصينية في عمان بتاريخ 2017/12/3 بحضور عطفة الأستاذ الدكتور رئيس الجامعة .
- مشاركة الدكتور عبدالرحمن الطواها مدير الوحدة في ورشة العمل حول تخطيط و رصد برنامج التطوير المهني الأكاديمي بتاريخ 2017/12/19-18 في الجامعة الهاشمية .
- المشاركة في ورشة العمل الخاصة بمناقشة نتائج التصنيف الأردني للجامعات لعام 2017 و امتحان الكفاءة الجامعية للفصل الدراسي الأول من العام الجامعي 2018/2017 و ذلك يوم الأربعاء 2017/12/27 في مبنى الهيئة .
- المشاركة في ورشة عمل " القيادة والإدارة" في جامعة العلوم التطبيقية الخاصة خلال الفترة 12-2018/2/13 .
- المشاركة في ورشة العمل حول الشراكة الاستراتيجية بالشراكة مع سفارة بريطانيا في عمان و المجلس الأعلى للعلوم و التكنولوجيا في الجمعية العلمية الملكية بتاريخ 2018/2/28 .
- التعاون مع المجلس الاقتصادي والاجتماعي الاردني بخصوص اعداد دراسة حول واقع الاوضاع المالية للجامعات الاردنية والحلول والمشاكل التي تواجهها
- المشاركة في الاحتفالية التي أُقيمت في منزل السفير البريطاني بمناسبة إنشاء صندوق نيوتن الخالدي بتاريخ 2018/2/28.
- المشاركة في ورشه العمل المنعقدة في جامعة موتة بتاريخ 2018/4/15 بعنوان Ranking and Rating as Tool for Transparency and Accountability