



Biographical Resume

Prof. Dr. Rida Shibli

Department of Agricultural Biotechnology and Genetic Engineering
Faculty of Agricultural technology
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Vital

Birth date: July 15, 1962

Birth Place: Mursa / Jarash, Jordan

Title: Professor of Plant Biotechnology and Biodiversity.

Education

- Sabbatical: Sept. 2005-Aug.2006. Department of Natural Resources and Environmental Sciences. University of Illinois, Urbana-Champaign, USA. Research: In vitro production of secondary metabolites from medicinal plants. Salinity tolerance in tomato in vitro.
- Fulbright: (used as sabbatical leave) Sept. 1999-Aug.2000. Purdue University, West Lafayette, IN, USA. Plant Tissue Culture/ Plant Cell Culture and Physiology. Research: Cell culture cold acclimation, cryopreservation, cell protein, carbohydrate, RNA and other physiological and biochemical aspects.
- Post Doctorate: Sept. 1995/Jan 1997. Department of Natural Resources and Environmental Sciences, University of Illinois, Urban-Champaign, USA. Plant Tissue Culture/ Plant Cell Culture and Physiology. Research: Production of secondary metabolites via cell culture; in vitro conservation and cryopreservation of plant cells.
- Post Doctorate: Sept. 1990/June 1991. Department of Applied Sciences, Langston

University. Langston, OK. USA. Research: Plant Physiology/ Salinity Stress.

- Ph.D. 1990. Department of Horticulture, University of Illinois. Illinois, USA. Horticulture, plant physiology and tissue culture. Thesis: In Vivo and In Vitro Physiological Studies of Water Requirements and Water Relations of Chrysanthemum morifolium Ramat.
- M.Sc. 1986. University of Jordan, Amman, Jordan. Plant Production, Physiology (Vegetable Crops). Thesis: Effect of Plant Population and Burst Application on Yield, Growth and Fruit Quality of Field Tomato in the Jordan Valley.
- B.Sc. 1984. Plant Production, College of Agriculture, University of Jordan, Jordan.

Professional Experience and Activities (Examples):

- Member, Higher Consultation Committee for Al Albyat University/ Sustainable Development and Research. Aug. 2022-present, Mafraq, Jordan.
- Local Consultant , FAO-Jordan Office, June 26-present. Amman, Jordan.
- Council Center Member; Nanotechnology Center. The University of Jordan. Amman – Jordan. October. 10/2/2022- present
- Dean. Faculty of Agricultural technology, Al-Ahliyya Amman University, Amman, Jordan. 6/2021- Present,
- The Advisory Board Member. The Jordan Journal of Agricultural Sciences. Deanship of Scientific Research. University of Jordan, Amman, Jordan. 6/2021- Present.
- Member. The Scientific Council of the Regional Center for Water, Environment and Renewable Energy. Jerash University. 3/2021
- Professor, 2/2021- Present, Department of Agricultural Biotechnology and Genetic Engineering, Faculty of Agriculture technology, Al-Ahliyya Amman University, Amman, Jordan
- Chair, Scientific committee, Shoman Foundation. Jordan, 11/2019-present
- Member, Shoman Foundation Fund Higher Committee, Shoman Foundation. Jordan, 11/2019-present
- Member, College of Reviewers, Research Quality Plus (RQ+), IDRC, Ottawa, Canada. 11/2019-present
- International Advisory Board; Jordan Journal of Earth and Environmental Sciences (JJEES). The Hashemite University, Zarqa –Jordan. July/2019- present
- President of Jordan Society for Scientific Research; Entrepreneurship and Innovation; 2/2019- Present.
- Executive Secretary of The Association of Agricultural Research Institutions in the Near East and North Africa (AARINENA), Jordan 2/2019- present
- Member, Agriculture partnership Council, Amman- Jordan. Jan. 28. 2019-present
- Council Center Member; Hmadi Mango Center for Scientific Research. The University of Jordan. Amman –Jordan. October. 2018- present
- Member in the Board of Trustees, Petra University, Jordan 11/ 2017- Present
- Member of the editorial board of Jarash University Journal of Agricultural Sciences, Jerash – Jordan, 2017- Present
- The Senate member, 27/9/2016- 9/2020, Jordan.

- Member of Health, Environment and Population Committee, The Senate. 9/2016- 9/2020
- Member of Agriculture and Water Committee, The Senate. 9 /2016- 9/2020
- Member of Education Committee, The senate. 9/2016- 9/2020
- Member Health and Enviroment Comitte, The Senat. 9/206-9/2020
- Minister of Agriculture, Jordan. 1/6/2016- 26/9/2016
- President, Mu'tah University, 1/4/2013- 31/5/2016. Jordan.
- Vice President. 3/2015-2/2019. Jordan Society for Scientific Research. Amman-Jordan
- Member, of the Panel of Referees, The El Hassan bin Talal Award for Scientific Excellence. Amman, Jordan. 2013.
- President, The University of Jordan Aqaba Branch, 1/4/2012- 51/4/2013. Jordan.
- Editor in chief, Jordan Journal for Agricultural Sciences, 04/2012-4-2016. Ministry of Higher Education, Amman, Jordan.
- Member in the Committee of " Format the Second National Report on the implementation of the Cartagena Protocol on Biosafety. Ministry of Environment. Amman, Jordan. 2011.
- Vice-President for Scientific Faculties and Institutes. 10/2010- 5/4/2013. University of Jordan, Amman, Jordan.
- University Board Member, University of Jordan, 9/2010-4/2013, Amman- Jordan.
- Member, Technical Committee, Agriculture and Veterinary Scientific Research. Scientific Research Fund. Ministry of Higher Education, Jordan. 2010.
- Member, The Higher Committee for Agriculture Research and Extension, Center for Agriculture Research and Extension, 2010-2015. Baqa, Jordan.
- Member, Who's Who in Agriculture Higher Education. Jan. 2010.
- Dean, Institute of Agriculture Research, Extension, Training and Education. 12/2009-10/2010. University of Jordan, Amman, Jordan.
- Member, Degrees and Certificate Monitoring Committee. Ministry of Higher Education, Jordan. 11/2009- 8/2010.
- Member, Agriculture Curriculum Supervising Committee, 12/2009-11/103. Ministry of Education. Amman, Jordan.
- Member, Committee, Research Priorities in Jordan (Agriculture and Veternary). 10/2009-5/2010. The Higher Council for Science and Technology, Amman, Jordan.
- Professor, 9/2008- 9/2016, Department of Horticulture and Agronomy, College of Agriculture, University of Jordan, Amman, Jordan.
- Faculty Board Member, 9-2008/8-2009. Faculty of Agriculture, University of Jordan, Amman, Jordan.
- Member, Jordan Biosafety Clearing House Committee, 8/2008-Present. Ministry of Environment, Amman, Jordan.
- Olive Program, The National Center for Agricultural Research and Technology Transfer

- (NCARE), Baq'a, Jordan. 2008- 2015.
- Member, Evaluation Committee of the Arab Center for Biotechnology and Genetic Engineering. 2008-2009. The Arab Authority for Agriculture Investment and Development. Sudan.
 - Associated Editor, In Vitro Cellular and Developmental Biology-Plant, USA. 2007-2016.
 - Assistant President. 2/2007- 3/2015. Jordan Society for Scientific Research. Amman-Jordan
 - Editorial Board Member. Jordan Journal of Agricultural Sciences. 2005-2012.
 - Director, Center for Agriculture Research and Production. 9/ 2004- 8/ 2005. Jordan University of Science and Technology. Irbid-Jordan. Professor.
 - Reviewing Editor, In Vitro Cellular and Development Biology-Plant.2004-2007.
 - Member, Technical Committee, Conservation of the Medicinal and Herbal Plants Project. Ministry of Planning. May 2003 – 2005.
 - Member, The higher Coordination Committee, The National Strategy for Agriculture Development, Ministry of Agriculture, Jordan. Jan. 2003 – Jan.2005.
 - Member, the Science Committee, the National Strategy for Agriculture Development, Ministry of Agriculture, Jordan. Jan. 2003 – Jan. 2005.
 - Communal Management And Optimization Of Mechanized Microcatchment Water Harvesting For Combating Desertification In The East Mediterranean Region. The International Center For Agricultural Research In The Dry Areas. 2003
 - Dean, College of Agriculture. 10/2002-8/2005. Jordan University of Science and Technology, Irbid, Jordan.
 - Board member of the National Center for Research and Extension (NCARE). Baqa, Jordan. 11/2002- 8/2009.
 - Professor, 8/2001-8/2008. Department of Plant Production, College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
 - University Board Member, 9/2001/ - 9/2008. Jordan University of Science and Technology, Irbid. Jordan.
 - Technical Committee for Herbal Plants in Jordan, Member, 1 / 2001-1/2007. National Center for Agriculture Research and Technology Transfer (NCAR-TT). Baqa, Jordan.
 - National Plant Genetic Resources Committee, Member, 1 / 2001-1/2007. National Center for Agriculture Research and Technology Transfer (NCAR-TT). Baqa
 - Chairman, Plant Propagation Group, Agriculture Biodiversity Project 1/ 2000 – 8/2005, Plant Biodiversity Project. National Center for Agriculture Research and Technology Transfer (NCARTT). Baq'a, Jordan.
 - Fulbright Scholar. 9/1999-8/ 2000. Department of Agronomy, Purdue University, West Lafayette, IN. USA.
 - Chairman, Dept. Plant Production, 8 / 1998-8 / 1999, College of Agriculture. Jordan University of Science and Technology. Irbid-Jordan.
 - Associate Professor, 8/1997-2002. Department of Plant Production, Jordan University of Science and Technology, Irbid-Jordan

- Director, Center for Agriculture Research and Production. 2/ 1997-8/1998. Jordan University of Science and Technology. Irbid-Jordan.
- Researcher, 8/1995- 8/1996. Department of Natural Resources and Environment. University of Illinois, Urbana IL 61801.
- Director, Center for Agriculture Research and Production. 9 / 1994-8 / 1995. Jordan University of Science and Technology. Irbid-Jordan.
- Plant Genetic Resources Committee. 8/1994-8/1995. National Center for Agriculture Research and Technology Transfer (NCAR-TT). Baqa, Jordan.
- Director, Biotechnology Section, 1/1993-8/1995. Jordan University of Science and Technology. Irbid- Jordan.
- Coordinator, Plant Tissue Culture Projects, 1/1992-8/1995. Jordan University of Science and Technology. Irbid- Jordan.
- Biotechnology Committee, Member, 3/1992-8/1995. Jordan University of Science and Technology, Irbid-Jordan.
- Plant Tissue Culture Committee, Member, 2/1992-8/1995. Jordan University of Science and Technology, Irbid-Jordan.
- Assistant Professor, 7/1991-8/1997. Department of Plant Production, Jordan University of Science and Technology, Irbid-Jordan.
- Faculty Board, Member. 7/1991-8/2008. College of Agriculture. Jordan University of Science and Technology, Irbid-Jordan.
- University Faculty, Member, 7/1991- 8/2008. Jordan University of Science and Technology, Irbid-Jordan.
- University Board, Member. 9/1991-9/1992. Jordan University of Science and Technology, Irbid-Jordan.
- Department Committee, Member, 7/1991-8/2008. Department of Plant Production, Jordan University of Science and Technology, Irbid-Jordan.
- Department Board Secretary, 9/1991-9/1992. Department of Plant Production, Jordan University of Science and Technology, Irbid-Jordan.
- Assistant Professor, 9/1990-1991. Department of Applied Sciences-Horticulture. Langston University, Langston, OK, USA.
- Graduate Research Assistant, 8/1988-5/1991. Department of Horticulture/University of Illinois, Urbana, Illinois, USA.
- Teaching and Research Assistant, 2-8/1988. Faculty of Agriculture, Jordan University of Science and Technology, Irbid-Jordan.
- Zarqa Valley Basin Development Project Committee, 2-8/1988, Ministry of Agriculture, Amman-Jordan.
- Al-Wir Fruit Tree and Vegetable Farm Planning Committee, Member, 2/1986-8/1988, Zarqa-Jordan.
- Director of the University Orchard, 6/1987-2/1988. Jordan University of Science and

Technology, Irbid-Jordan.

- Director and Propagator, 8/1986-6/1987. Al-Wir Nurseries, Zarqa, Jordan.
- Farming Engineer and Consultant, 1-6/1986. Al-Wir Fruit Tree and Vegetable Farm, Zarqa, Jordan.
- Al-Wir Nurseries Planning Committee, 2/1986-8/1988. Zarqa-Jordan.
- Graduate Research and Teaching Assistant, 2/1984-2/1986. Faculty of Agriculture, University of Jordan, Jordan.

Honors (Examples):

- **The 2019 'Best Paper Award'** published by the Sultan Qabous University (SQU) Agricultural and Marine Sciences Journal. Paper entitled "Improving Solanin production in in-vitro cultures of Solanum nigrum L. using different chemical and physical factors". Sultan Qaboos University. Oman.
- **The 2019 ACES Award of Merit.** College of Agricultural, Consumer and Environmental Sciences (ACES) Alumni Association. University of Illinois. USA.
- **Philadelphia University Award** for best authorized book "Plant Genetic Resources and their Preservation methods", Amman- Jordan, 2013.
- **ISESCO Prize in Science and Technology (in Biology)**, Islamic Educational, Scientific and Cultural Organization. Rabbat Morocco, 2012.
- **Ali Mango Distinguished Researcher Award for Scientific Faculties**, Hamdi Mango Center for Scientific Research (HMCSR), University of Jordan, Amman, Jordan, 2011.
- **University Distinguished Researcher Award**, University of Jordan, Amman, Jordan, 2011.
- **University Distinguished Researcher Award**, University of Jordan, Amman, Jordan, 2010.
- **Distinguished Research Award (Agriculture Sector)**, The Ministry of Higher Education, 2008, Amman, Jordan.
- **Iris Award for Distinguished Agricultural Research**, The Technical Consultancy Center. Amman, Jordan. 2006.
- **Applied Research Award**, The Agricultural Engineers Association, 2006, Amman, Jordan.
- **Distinguished Researcher Award (Agriculture Sector)**, The Ministry of Higher Education, 2004, Amman, Jordan.
- **The NCARTT/ICARDA honorarium**, 2006, Due to efforts and contribution to the agricultural research and development, Amman, Jordan.
- **Arab Fund Fellowship Program Award**, Distinguished Scholars, Arab Fund for Social Development, 2005, Kuwait.
- **The National Center For Agriculture Research and Technology Transfer Plaque**

(Awarded for Distinguished Researchers in Agriculture in Jordan) 2003, Jordan.

- **The Scientific Foundation of Hisham Adeeb Hijjawi Award** (awarded to best applied researches in Jordan) in Agriculture Sector. 2001 (for the second time). Amman, Jordan.
- **One Year Seniority in Promotion to a Professor Rank.** 2001. Due to distinguish research work.
- **Fulbright Recipient,** 1999/2000.
- **American Biographical Institute,** Research Board of Advisors, 1998.
- **King's Reward. 1997.** Distinguished Scientists at Jordan University of Science and Technology. Irbid, Jordan.
- **Showman Foundation Prize for Young Arab Scientists Agricultural Sector,** 1996.
- **Islamic Development Bank Scholarship** (Jeddah, Saudi Arabia). 1995/1996.
- **The Scientific Foundation of Hisham Adeeb Hijjawi Award** (awarded to best applied researches in Jordan) in Agriculture Sector. 1994. Amman, Jordan.
- **Phi Kappa Phi,** 1990. University of Illinois, Urbana-Champaign, Illinois, USA.
- **Gamma Sigma Delta,** 1990. University of Illinois, Urbana-Champaign, Illinois, USA.
- **5.0 grade point average on a 5 point scale during Ph.D.** course work at University of Illinois. Urbana-Champaign, Illinois, USA.
- **King's Reward for University Top Graduate Students,** (M.Sc. student with the highest GPA) in his department at the University of Jordan, 1986. Amman-Jordan.
- **King's Reward for The University Outstanding Undergraduate Student,** (highest graduating student GPA in his department) at the University of Jordan, 1984. Amman-Jordan.

Society Membership (Examples):

- MEMBS – Middle East Molecular Biology Sources for the year 2017-2018 in accordance with the membership number A008870 Member,
- International Society for Horticultural Science. 2008-Present.
- Member, Jordan British Friendship Society, 2004 –Present. Amman, Jordan..
- Fulbright Alumni Member, 1999-Present. Amman, Jordan.
- Jordan Society of Scientific Research, 1999 – Present. Amman, Jordan.
- Agricultural Engineers Association (1987-Present). Amman, Jordan.
- Jordan Alumni Society for Graduates of U.S. Universities and Institutes (1998-Present).
- Cryoletters (1999-2000), UK.
- Bangladesh Association of Plant Tissue Culture (1999-2003).

Teaching Experience (primary responsibility):

- Plant Tissue Culture (MS program). 2009- present University of Jordan, Amman, Jordan.
- Plant Cell Culture (MS program). 2009- present University of Jordan, Amman, Jordan.
- Plant Science 101. Introductory Plant Science. 2008-Present. University of Jordan, Amman, Jordan.
- Genetic Engineering 423. Plant Biotechnology. 2007-2008. Jordan University of Science

- and Technology.
- Plant Production 423 (Plant Propagation), 2001 – 2008. Jordan University of Science and Technology. Irbid, Jordan.
 - Plant Production 725 (Plant Tissue Culture). 1997-2008. Jordan University of Science and Technology. Irbid, Jordan.
 - Plant Production 792 (Plant Cell Culture). 2001-2008. Jordan University of Science and Technology. Irbid, Jordan.
 - Plant Production 711 (Crop Physiology). 2001-2008. Jordan University of Science and Technology. Irbid, Jordan.
 - Plant Production 325 (Vegetable Production). 1997. Jordan University of Science and Technology. Irbid, Jordan.
 - Plant Production 621 (Plant Tissue Culture). 1993. The University of Jordan, Amman-Jordan.
 - Agriculture Science 322 (Deciduous Fruit Trees Production). 1992-1997. Jordan University of Science and Technology. Irbid-Jordan.
 - Agriculture Science 423 (Nursery Management). 1992-2008. Jordan University of Science and Technology. Irbid-Jordan.
 - Agriculture Science 319 (Practical Training in Agriculture). 1992-2008. Jordan University of Science and Technology. Irbid-Jordan.
 - Biology 322 (Plant Physiology). 1992-Present. Jordan University of Science and Technology. Irbid-Jordan.
 - Agriculture 200 (Floriculture) 1988. Jordan University of Science and Technology, Irbid, Jordan.
 - Plant Production 302 (Practices in Vegetable Production, lab section) 1984-1986. University of Jordan. Amman-Jordan.

Teaching Experience (guest lecturer and seminars)

Have given more than 300 lectures and seminars in different tissue culture, agriculture and environment disciplines in USA, Jordan, and many other countries.

Major Fund Received (examples):

2020 Application of tissue culture techniques for massive propagation, conservation, and investigation of medicinal properties of Ephedra Foeminea and Origanum petraeum (two endemic plants to Jordanian environment)

45.000 JD, Scientific Research Fund, Ministry of Higher Education, Jordan.

- 2019 New Business opportunities & Environmental suSTainability using MED GRAPE nano technological products. European Union **ENI CBCMED**. € 3.323.614,57.
- 2019 National Biodiversity Network. , Jordan, UNDP. \$ 35.000
- 2018 *In vitro* propagation and evaluation of the anticancer potentials for *Commiphora gileadensis*, an extinct plant from Jordan. Deanship of Research. University of Jordan. (total amount JD 17,000)
- 2017 Biosorption of toxic chromium, lead and cadmium from Jordanian surface water and biosynthesis of their nanoparticles by *Lactobacillus acidophilus*. 2017. Hamdi Mango Center For Scientific Research. The University of Jordan. (total amount JD 7,000)
- 2017 Application of Biotechnological approaches for massive propagation, conservation, enhancement of secondary metabolites production and assessment of genetic biodiversity and anti-oxidant, microbial and turmeric activities of *Salvia dominica* L. Deanship of Research. University of Jordan. (total amount JD 8,000)
- 2015 Application of tissue culture techniques for secondary metabolites production and cryopreservation of Jordanian Hairy nightshade *Solanum villosum* (L.) Mill Deanship of Research. University of Jordan. (total amount JD 15,000)
- 2013 *In vitro* propagation and *in vitro* conservation of wild Fennel (*Feniculum vulgare*).Deanship of Research. University of Jordan. (total amount JD 10,000)
- 2012 BOT-ERA Project, The Royal Botanic Garden (RBG) of Jordan , FP7-funded program. (total amount EURO 250,000)
- 2011 *In vitro* preservation and Cryopreservation of Transgenic Tomato plants (*Lycopersicon esculentum*) overexpressing novel cold tolerance genes. Deanship of Research . University of Jordan . (total amount JD 29,000)
- 2009 Micropropagation, and *In vitro* Conservation of *Arum palaestinum*. Deanship of Research . University of Jordan . (total amount JD 21,000).
- 2009 Production possibility of transgenic and preserved date palm resistant to Red Palm Weevil. Scientific Research Fund, Ministry of Higher Education. Jordan. (Total amount JD 81,000)
- 2009 Genetic diversity and *in vitro* conservation of selected endemic medicinal plant species grown in Jordan. Scientific Research Fund, Ministry of Higher Education.

Jordan. (Total amount JD 50,000)

- 2004 Molecular and morph-agronomic characterization and evaluation of landraces and wild types of some plant species natives to Jordan. The Higher Council of Science and Technology. Jordan. (Total amount of fund received JDs 22,777)
- 2001-2003 *In vitro* and *In vivo* propagation and conservation of black iris: The national flower of Jordan. Funded by the Higher Council of Science and Technology, Amman, Jordan. (Total amount of fund received, JDS 25,000).
- 1991-2008 Different projects were funded from the Deanship of Research at Jordan University of Science and Technology (Total amount of fund received is about JD 80,000).
- 1993 (Production of disease-free Vegetable seeds and seedlings via tissue culture). Funded by the Ministry of Agriculture (Agriculture Development Funding; ADF) JDS 79,400.
- 1993 Joint fund for the above mentioned project (The Higher Council of Science and Technology). , JDS 29,000

Research Experience (Examples)

- Wide understanding of plant Biotechnology and molecular characterization of plant genetic resources.
- Wide understanding of plant cell culture and secondary metabolites production.
- Wide understanding of plant physiology and tissue culture, Cryopreservation and Molecular Physiology.
- Wide understanding and experience with plant stress physiology and water relations research.
- Wide understanding of plant tolerance to salinity.
- Characterization of plant water requirements and monitoring plant water status.
- Developed a protocol for investigating in vivo and in vitro osmotic adjustment and osmoregulation as well as growth characterization under induced water stress conditions.
- Developed an in vitro system for screening plant responses to stress responses.
- Used Hydroponic system to study plant responses to saline stress conditions and the adaptaion of plants to water deficit.
- Initiated an efficient micropropagation system for many plant species.
- Experienced in applying microcomputerized video image analysis to studies of in vivo and in vitro plant growth response to stress.
- Studied photosynthetic and expansion growth responses of plants to stress conditions.
- Investigated the effect of plant growth regulators on vegetable crop physical and chemical properties.
- Studied the effect of plant density on the yield, growth and quality of tomatoes.
- Have done massive research in plant tissue culture and micropropagation.

Workshops; Seminars and Training Courses (attended or participated) (Examples):

- Field Day, Date Palm Innovation Platform, Jordan Valley, organized by FAO and AARINENA, Aug. 30, 2022, Jordan.
- BESTMEDGRAPE event general agenda (26 – 28 September 2022)
BESTMEDGRAPE Steering committee meeting - Monday 26th September 2022
- The Asian Arab Parliamentary Annual Meeting for Population and Development. 2-3 March 2022. Cairo Egypt
- Smart agriculture. Aliyah Amman university. Feb. 2022. Salt, Jordan
- “OWSD-Jordan National Chapter Local Hub” And “The 2021 OWSD General Assembly” . JJSRE.
- Scientific research: writing proposal. AL Horani center for electronic education. Aliyah Amman university. Dec. 2021. Salt, Jordan.
- Contribution of National Institutions to the National Network for Biodiversity (NBN) in the southern region. Aqaba Governorate. National Biodiversity Network Project (NBN). The Jordanian Society for Scientific Research, Entrepreneurship and Innovation, in cooperation with the Royal Society for the Protection of the Marine Environment. 13-14 / 2/2021
- Workshop on Intellectual Property Rights for Innovation in Industrial and Agricultural Sectors in Support of Economic Development. United Nations ESCWA (Kempinski Hotel, Amman, Jordan, 14-15 December 2019).
- Regional Meeting On Promoting Food and Water Security In The Arab Region – United Nations – ESCWA; Amman- Jordan; 27-28-Nov/2019.
- Workshop on Implementing of National Goals to promote decent work in the Agricultural Sector in Jordan for the year 2019-2020. Movenpick Dead Sea / (11-12) / 10 /2019
- Counselor; China-Arab States Technology & Culture Transfer Center and China-Arab States Youth Entrepreneurship Park. Aug. 24th, 2019. China.
- The 7th ESCWA Technology Centre’s Technical Committee Meeting and ETC’s EGM on "Green Technology Transfer, Adaptation and Investment Required for Implementing SDG 12. 29-31. July.2019. Kempinski Hotel. Amman-Jordan.
- Fostering Innovation and Creativity to Bolster Global Competitiveness of Industries in Jordan. "Successes in Networking Jordanian Industries in the Academic Sector". A Newton-Khalidi Funded workshop. Prof. Rida Shibli; AARINEA, Agricultural Innovation Platforms, AARINEA's Role in Research, Networking and Innovation. May, 5.2019. Al Hussein Technical University, Maan –Jordan.

- Building Capacity for International University Cooperation and Research Collaboration International Conference and Workshops . U.S.-Jordanian University Cooperation Network (UCN). Panel Discussion; Roundtable for Research Leaders and Program or Center Directors: Setting Priorities for Cooperation. University of Jordan with North Carolina State University .June 24 – 26, 2019, Amman, Jordan
- "Jordanian Agricultural Marketing" Workshop, Center of Training and Scientific Research Station of the Agricultural Engineers Association, Al Karama / Jordan Valley . 9/3/2019.
- TAIEX Workshop on Impact of Climate Change on Agriculture, Ecosystems and Food Security organised in co-operation with National Agricultural Research Centre (NARC). Seven Roses Hotel. Amman-Jordan; Amman - Jordan - 15 - 16 April 2019.
- 2nd Meeting of ERASMUS+ CBHE 585822-EPP-1-2017-1-EL-EPPKA2-CBHE-JP project:Innovation for the Leather Industry in Jordan and Egypt (INNOLEA), NTUA, Patisision Complex (Patisision 42, Athens, Greece, 3-5 May 2018.
 - FoodQA workshops for the food industries in Jordan, which are part of the Erasmus+ FoodQA Project. Under the patronage of H.E. Senator Prof. Rida Shibli, the former Minister of the Ministry of Agriculture, and the Honorable Chairman of the Academia Industry Council, which is initiated by the FoodQA Project. April 28, 2018 in Jerusalem International Hotel, Amman - Jordan.
- SDGs readiness and advocacy in the Arab World 12-14 December 2017 Tunis, Tunisia
- Precision Engineering of the Genome – Ethical Perspectives in Societies with Islamic and Christian Heritage” of the Arab-German Young Academy of Sciences and Humanities (AGYA) in Tunisia, Hammamet-Nabeul, 15 -18 December 2017.
- The fourth training workshop on "Marriage and Family in the Arab Region" Cairo - Egypt (10-11 July 2017)
- “Entrepreneurship and Innovation Challenges in the 21st Century” . Ras Al Khaimah, November 12-15 as a keynote speaker. Genetically Modified Crops: Current Status and Future Prospects
- Asian and Arab Parliament meeting and study visit on population and development. Amman- Jordan. 2017.
- International Workshop of the Arab-German Young Academy of Sciences and Humanities (AGYA) Food Security, Migration and Climate Change, Keynote Speech: Climate Change and its impact on Agriculture ,30 November-3 December 2016, Agricultural University of Athens, Greece.
- 7th Annual International Arab Workshop on Biotechnology: Plant Biotechnology & Biodiversity. Oral presentation. August, 2016. Amman, Jordan. Rescuing endangered *Moringa peregrina* (Forssk.) Fiori by cryopreservation using

- vitrification and encapsulation-vitrification protocols.
- A regional symposium on "Scientific Research in the Arab countries: the challenges and solutions". Plant Biotechnology Research and its outputs in Jordan. Arab Open University, 18 to 19 March 2014.
 - Symposium on Restoring Degraded Ecosystems: Regional and International Perspectives at the Landmark Hotel The Royal Botanic Garden , March 2015
 - Royal Botanic Garden 1st Annual Scientific day. Amman, January 12, 2012.
 - Workshop on "enerMENA R & D Infrasructure Workshop- Almeria, support to establish R& D and test infrastructure at partner institutions, German Aerospace Center (DLR). 15-16/12/2011. Almeria Spain.
 - Shibli R.A. 2011. Basic vs. Applied Research in Jordan. Workshop on Research and Higher Education: A Discussion Hosted by Columbia University Middle East Research Center.
 - Workshop on "enerMENA Launching workshop" advanced CSP-Teaching Materials. 29-June/ 1 –July, 2011. Cologne, Germany.
 - Workshop on "The Use of Nanotechnology in Agriculture". The national Center for Agriculture Research and Extension. July, 26, 2010. Baqa, Jordan.
 - Workshop on Identification of Native Plants in Jordan to Prepare for A Red List. The Royal Botanical Garden. July 12, 2010, Amman, Jordan..
 - Workshop on Strengthening Capacities towards the Establishment of a Regional Platform for the Detection of Genetically Modified organisms. FAO and NCARE, July 28-30/7, 2009. Amman, Jordan.
 - Workshop on the Uses of the Synchrotron Center. Al-Zytoneh University. Amman, Jordan. June 2009.
 - Workshop on Promoting Innovation and Intellectual Property for Development. (April 27, 2008), Royal Scientific Society. Amman, Jordan.
 - Workshop on Freezing and Its Influences on Agriculture Sector in Jordan. The National Center for Agriculture Research and Extension (NCARE). April 2008, Baqa, Jordan.
 - Workshop on Launching the International Assessment of Agricultural Science and Technology Development (IAASTD) (October 8th 2008).. International Center for Agricultural Research in the Dry Areas. Amman, Jordan.
 - Training Course in Production of Virus Free Plants by Plant Tissue Culture. March, 16th, 2008.National Center for Agriculture Research & Extension. Baqaa, Jordan.
 - Workshop on Accreditation for Agriculture Specialties. April 23, 2005. Jerash University, Jordan.
 - Workshop on National Partnership in the Implementation of the National Biodiversity Strategy. March 14, 2005. Amman. Jordan.
 - WorkShop on Jordan National Network for Medicinal Plants. March 8, 2005. Jordan University of Science and Technology, Jordan.
 - Environmental Regulations with Perspectives to Biodiversity. Jordan Environment Society. July 29, 2004. Amman, Jordan.
 - Influence of Salinity on Plant Growth and Development (Plant physiology-growth stages/ germination). July 19-22, 2004. National Center for Agriculture

- Research and Technology Transfer (NCARTT). Baqa, Jordan. (Lecturer).
- Promoting Regional Cooperative Agricultural R&D in the Middle East. Binational Agricultural Research and Development Fund. July 6-7, 2004. Istanbul, Turkey.
 - Upgrading and sustaining the parliamentarians participation in the understanding of Jordanian environmental legislation with reference to emerging key issues. Strategies of agriculture and its reflections on environment. May 3-4, 2004. Amman, Jordan.
 - Regional Workshop on Technology Transfer. Association of Agricultural Research Institution in the Near East and North Africa (AARINENA). 11-13 April, 2004. Oman, Muscat.
 - Sub-regional Workshop on Technology Transfer. FAO. March 31-April 1, 2004. Jordan University of Science and Technology, Irbid, Jordan
 - Conjugate Research Project to Determine DNA-fingerprint of Different Olive Cultivars in Jordan, Egypt, and Morocco. Arabic Organization for Agricultural Development. Dec. 10-12, 2003. Cairo, Egypt.
 - Food Security Projects of Jordan. FAO. Dec. 2, 2003. Amman, Jordan.
 - The Frontiers of Science and Engineering. The national Academies, Advisors to the Nation on Science, Engineering, and Medicine. Istanbul, Turkey. September 21 – 23, 2003. KOC University.
 - Biosafety in Agricultural Biotechnology, theoretical. 30 August – 1st September, 2003. Damascus, Syria.
 - Biosafety in Agricultural Biotechnology, practical. September 1 – 4, 2003. Aleppo, Syria.
 - Biosafety regulations. May 25, 2003. Ministry of Environment. Amman, Jordan.
 - Medicinal and Herbal Plant Project. June 14, 2003. Ministry of Planning. Amman, Jordan.
 - Agricultural Biotechnology Expert Meeting Oct. 27-29,2002. Coordination of agricultural biotechnology research efforts in the Arab world. Organized by the Arab organization for agriculture development, Cairo, Egypt (Participant)
 - Commercialization of Genetically Modified Crops (GMC). April 14, 2002. American Embassy –USAID Program. Amman, Jordan. (participant).
 - Plant Tissue Culture and In vitro Conservation. Feb. 3-7, 2002. National Center for Agriculture Research and Technology Transfer (NCARTT). Baqa, Jordan. (Lecturer)
 - Plant Tissue Culture. Sept. 23-27, 2001. National Center for Agriculture Research and Technology Transfer (NCARTT) and The Agriculture Engineering Association. Baqa, Jordan (Lecturer).
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110. Abu- Shama M. M., R. A. Shibli, and K. I. Ereifej. Physiological Responses of Tomato (*Lycopersicon esculentum* Mill.) to In Vitro Induced Water Deficit. 2003. Proceeding, Sixth Scientific Day. College of Agriculture, Jordan University of Science and Technology. Irbid, Jordan.
111. Abed-Alrahman N. M., R. A. Shibli, and K. I. Ereifej. Influence of Salinity on Growth and Physiology of in vitro Grown Cucumber (*Cucumis sativus* L.). 2003. Proceeding, Sixth Scientific Day. College of Agriculture, Jordan University of Science and Technology. Irbid, Jordan.
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116. Shibli, R.A., M.A.L. Smith, and M. Kushad. 1998. Influence of ethylene on the production of anthocyanin and carotenoid from callus culture of *Vaccinium pahalae*, ohelo. Third Arab Conference on Modern Biotechnology and Areas of Application in the Arab World. 14-17 December, 1998. Cairo, Egypt.
117. Shibli, R.A., M.A.L. Smith, and M. Kushad. 1998. Influence of ethylene on the production of anthocyanin, and carotenoid from callus culture of *Vaccinium pahalae*, ohelo. Third Arab Biotechnology Conference. Dec. 14-17, 1998. Cairo; Egypt.
118. Conference of Biological Research and Studies in Jordanian Badia. March 30, 1998. Al-Albait University, Mafraq, Jordan.
119. Shibli, R.A., A. Jaradat, M. Ajlouni, S. Aljanabi and M. Shatnawi. 1997. Micropropagation in wild pear (*Pyrus syrica*). Proceedings; 2nd Arab Agriculture Conference, Jordan.
120. Shibli, R.A., M.A.L. Smith, and M. Kushad. 1997. Headspace ethylene accumulation reduces secondary metabolites production in *Vaccinium pahalae* cell culture. In *Vitro Cellular and Developmental Biology- Plant*. 33: 77A. Abstr. # P-1130. The Congress on IN Vitro Biology. Washington D.C., USA.
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125. Aljanabi, S.M., R. Shibli, M.M. Alajlouni. 1996. Insertion of maize transposable element Ac into soybean (*Glycin max* L. Merr.) by novel *Agrobacterium tumefaciens*-mediated transformation method. *In Vitro Cell. Devel. Biol.* 32: 111A. Abstract # P-1199. World Congress on In Vitro Biology. San Francisco, CA, USA.
126. Shibli, R.A., A.A. Jaradat, M.M. Ajlouni, S. Aljanabi. 1996. In vitro multiplication of bitter almond (*Prunus amygdalus*) from north Jordan. World Congress on In Vitro Biology, San Francisco, CA, USA.
127. Shibli, R.A., A. Jaradat, M. Ajlouni and M. Shatnawi. 1996. In vitro multiplication and rooting of wild pear (*Pyrus syrica*). 2nd Arab Agriculture Conference, Jordan.
128. Shibli, R.A., A. Jaradat, and M.M. Ajlouni. 1995. Salt tolerance in *Aegilops* species from Jordan. Proceedings, 87th Annual Meeting. American Society of Agronomy, Crop Science Society of America, Soil Society of America. St. Louis, MO. USA.
129. Shibli, R.A., A.M. Abu-Ein and M.M. Ajlouni. 1995. In vitro and in vivo multiplication of disease-free 'Spunta' potato. (May). Congress On In Vitro Biology. Denver. Colorado. USA. Congress On In Vitro Biology. Denver, CO. USA.
130. Shibli, R.A., A. Abu-Ein and M.M. Ajlouni. 1994. In vitro propagation and in vivo acclimatization of MM 106 apple rootstock. Proceedings, First Arab Agriculture Conference. (Jordan).
131. Second Arab Conference on Perspectives of Modern Biotechnology. April 24-28, 1993. Amman-Jordan
132. Shibli, R.A., L.A. Spomer and M.A.L. Smith. 1991. Osmotic adjustment and growth responses of in vitro grown *Chrysanthemum morifolium* Ramat. under induced water deficit. Abstract. *HortScience*. 25: 1125.
133. Shibli, R.A. and L.A. Spomer. 1991. Physiological responses of *Chrysanthemum morifolium* Ramat. to water deficit. Abstract. *HortScience*. 26: 714. ASHS 88th Annual Meeting. Philadelphia, Pennsylvania. USA.
134. Shibli, R.A. and L.A. Spomer. 1991. Characterization of *Chrysanthemum morifolium* Ramat. water requirements. (July). 88th ASHS Annual Meeting. Philadelphia, Pennsylvania. USA. Abstract. *HortScience*. 26: 741
135. Shibli, R.A. and L.A. Spomer, and M.A.L. Smith. 1990. Osmotic adjustment and growth responses of three in vitro grown *Chrysanthemum morifolium* Ramat. cultivars to osmotic stress. ASHS 87th Annual Meetings. Tucson, Arizona. USA.

136. Global change. November 19-22, 1990. Washington D.C., U.S.A. First Arab Conference on Perspectives of Modern Biotechnology. October 16-19, 1991. Amman-Jordan.

Advisor or Co-Advisor on Thesis Project (Examples):

1. **Darweesh Doaa**. 2020. Micropropagation, Callus Culture and Secondary Metabolites Production in wild *Chiliadenus montanus* (Vhal.) Brullo. School of Agriculture, University of Jordan, Amman. Jordan.
2. **Khawldeh Refad**. 2020. Micropropagation and conservation of *Thymus bovei* Benth, and evaluation of its geraniol content after slow growth conservation. School of Agriculture, University of Jordan, Amman. Jordan.
3. **Malek Roba**. 2020. Ph.D. Physiological responses of micropropagated *Chenopodium quinoa* Willd under different induced abiotic stresses and silver nanoparticles. School of Agriculture, University of Jordan, Amman. Jordan.
4. **Nori Nahed**. 2018-2020. M.Sc. Effect of different stress factor on growth, and antimicrobial activity of *Paronychia argentea*. School of Biotechnology and Agriculture. Balqa Applied University, Salt Jordan
5. **Adaileh Batool**, Co-Advisor. 2018- 2019. M.Sc. Thesis . Establishment of Callus and Cell Suspension Cultures for *Commiphora gileadensis*. School of Agriculture, University of Jordan, Amman. Jordan.
6. **Alkateeb Faten**, Advisor. 2017- 2018, M.Sc. Thesis. Thesis Studying the influence of salinity stress on growth, physiological changes, and phenolic compounds production of in vitro grown *Paronychia argentea*. School of Agriculture, University of Jordan, Amman. Jordan.
7. **Al Eshosh Anfal**, Advisor. 2015-2017, M.Sc. Thesis. Effect of some chemical factors on production of pentacyclic triterpenoids in callus and cell suspension culture of *Lantana camara* L. School of Agriculture, University of Jordan, Amman. Jordan.
8. **Al Enzi Abrar**, Advisor. 2015-2017, M.Sc. Thesis. In Vitro propagation and evaluation of some phenolic compounds in wild *Paronychia argentea* L. School of Agriculture, University of Jordan, Amman. Jordan.

9. **Mehirat Mawdeh**, Co-Advisor. 2015-2017, M.Sc. Thesis. In vitro propagation and antimicrobial activity of *Tetragonolobus palaestinus*: A medicinal plant from Jordan. School of Biotechnology and Agriculture. Balqa Applied University, Salt Jordan
10. **Darweesh Maysaa**, Advisor. 2015-2016, M.Sc. Thesis. In vitro propagation and antimicrobial activity of Qurdi *ochradenus baccatuc* daleli. *School of Agriculture, University of Jordan, Amman. Jordan.*
11. **Al –Saleh Majd**, Advisor. 2015-2016, M.Sc. Thesis. Antibacterial and Antifungal activity of in vitro grown *Ammi visnaga*(L.) Lam. **School of Agriculture, University of Jordan, Amman. Jordan.**
12. **Zghool Tamara, Advisor. 2014-2016, M.Sc. Thesis.** AL-Zghoul . Regeneration via somatic embryogenesis of the ornamental endangered *Narcissus tazetta* L. School of Agriculture, University of Jordan, Amman. Jordan.
13. **AL- Kiyam Mu'ad A.**, Advisor. 2014-2016 Ph.D. *In vitro* production of alkaloids in black nightshade *Solanum nigrum* L. and evaluation of genetic stability in the microshoot, callus and cell suspension cultures. **School of Agriculture, University of Jordan, Amman. Jordan.**
14. **Sabbah Bushra** , Advisor. 2014-2016, M.Sc. Thesis. Influence of salinity stress on growth and biochemical changes in transgenic barely (*Hordeum vulgare* .L) over-expressing *HvABF2* gene. School of Agriculture, University of Jordan, Amman. Jordan.
15. **Bin Edrees Hassan**, Advisor. 2012-2013 Ph.D. Dissertation. In vitro preservation and cryopreservation of *Artemisia judaica* L and their effect of genetic stability. School of Agriculture, University of Jordan, Amman. Jordan.
16. **Rweiay Hamdan**, Advisor. 2013-2014 Ph.D. Dissertation. In vitro preservation and cryopreservation of *Moringa peregrine* (Forssk) Fiori and their effect of genetic stability. School of Agriculture, University of Jordan, Amman. Jordan.
17. **Tahtamony Reham**, Advisor. 2012-2013 Ph.D. Dissertation. In vitro conservation and cryopreservation of L. and its effect on genetic stability, volatile oil yield and carvacrol content. School of Agriculture, University of Jordan, Amman. Jordan.
18. **Younes, L.** Advisor. 2011-2012 Ph.D. Dissertation. " *In vitro* multiplication and conservation of *Achillea fragrantissima* Forssk Sch. Bip.). School of Agriculture, University of Jordan, Amman. Jordan.
19. AL-Hawmdeh F. Advisor. 2011-2012 M.Sc. Thesis. *In Vitro* Propagation and Secondary Metabolites production In Milk Thistleb (*Silybum marianum* L.). School of Agriculture, University of Jordan, Amman. Jordan.
20. **Sharaf, S.** Advisor. 2009-2011. Ph.D. Thesis. "*Micropropagation and in vitro conservation of Artemisi herba Alba*). School of Agriculture, University of Jordan, Amman. Jordan.

21. **Rabaa, M.** Advisor. 2009-2011. M.Sc. Thesis. In vitro conservation of Felty germander (*Teucrium polium L*) shoot tips. School of Agriculture, University of Jordan, Amman. Jordan.
22. **Al Qudah, T.** Co-Advisor. 2007-2009. M.Sc. thesis “*Micropropagation ,Callusing And Secondary Metabolites in Teucrium polium L* ” College of Agriculture, Jordan University of Science and Technology. Irbid, Jordan.
23. **Mustafa, S.** Co- Advisor, 2007-2009, M.Sc. thesis “In Vitro Propagation of oriental strawberry tree (*Arbutus Andrachne.L*)” College of Agriculture, Jordan University of Science and Technology. Irbid, Jordan.
24. **Baghdadi, S.** Advisor. 2006-2008. M. Sc. Thesis “In vitro preservation and cryopreservation of embryogenic callus of wild crocus (*Crocus hyemalis* and *C. moabiticus*) ”, College of Agriculture, Jordan University of Science and Technology. Irbid, Jordan
25. **Al-Qudah, A.,** Co-advisor. 2005-2008. Ph. D. Dissertation “In vitro micropropagation of apricot cvs Baladi, Ajami, and rootstock reine claud P3116 (Torinel)”, College of Agriculture, Jordan University of Science and Technology. Irbid, Jordan.
26. **Daradkah, N.,** Advisor. 2004-2007. M.Sc. Thesis “Callus, cell suspension culture and colchicines production in *Colchicum hierosolymitanum*”, College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
27. **Nazzal, K.,** Advisor. 2004-2007. M. Sc. Thesis “Genotypic and phenotypic variation of Jordanian *Crocus spp.* In Mafraq and Ajloun Areas”, College of Agriculture, Jordan University of Science and Technology. Irbid, Jordan.
28. **Al-Qurashi, S.** Co-advisor. 2002-2005. M. Sc. Thesis “A study of in vitro and in vivo seed germination of black iris (*Iris nigricans*)”, College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
29. **Zatimeh, A.** Advisor. 2002-2005. M. Sc. Thesis “ Comparative responses of Muskmelon (*Cucumis melo L.*) Microshoots and hydroponic culture to salinity”, College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
30. **Subaieh, W.** Advisor. 2001-2004. M. Sc. Thesis “Influence of some chemical factors on regeneration in date palm (*Phoenix dactelifera L.*)”, College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
31. **Al-Khassawneh, N.** Co-advisor 2001-2004. M. Sc. Thesis “The use of plant growth regulates to break dormancy and regulate flowering of Black Iris (*Iris nigricans D.*)” College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
32. **Al-Khasawneh, A.** Co-advisor 2001-2004. M. Sc. Thesis “Patterns of phenotypic and genetic variation of Black Iris (*Iris nigricans D.*) in three different provinces in Jordan” College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
33. **Ibrahim, N.** Advisor. 2000-2004. M Sc. Thesis “ Micropropagation of some coffee (*Coffea arabica L.*) cultivars from Yemen”, College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.

34. **Abdelrahman, N.** Advisor. 2000-2003. M Sc. Thesis “The effect of induced salinity stress on tolerance and physiology of wild pear in vitro”, College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
35. **Dagnew, A.** Advisor. 2000-2003. M Sc. Thesis “Slow growth preservation and cryopreservation in African violet”, College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
36. **Al-Hussein, S.** Advisor. 2000-2003. M Sc. Thesis “Direct and indirect regeneration in African violet”, College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
37. **Abu-Sham’a, M.** Advisor. 2000-2003. M Sc. Thesis “Response of wild pear to in vitro induced water deficit”, College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan
38. **Oweis, D.** Advisor. 2000-2003. M Sc. Thesis “In vivo and in vitro propagation of Akoub”, College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
39. **Taye, E.** Advisor. 2000-2002. M Sc. Thesis “Morphological and Physiological and Yield traits of faba bean genotypes as affected by drought stress”, College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
40. **Abu-Khadejeh, A.** Advisor. 2000-2002. M Sc. Thesis “Comparative responses of tomato (*Lycopersicon esculentum* Mill.) microshoots, cell suspension and hydroponic cultures to salinity”, College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
41. **Al-Khateeb, W.** Co-Advisor. 2000-2002. M Sc. Thesis “Orobanche and tomato interaction as influenced by salinity and water deficit under in vivo and in vitro conditions”, College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
42. **Harb, A.** Co-Advisor. 2000-2002. M Sc. Thesis “The role of indole-3-acetic acid in host-parasite (orobanche) interaction”, College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
43. **Abu-Sharbi, A.** Co-Advisor. 1997-2001. Ph.D. Thesis “The role of thermal therapy and tissue culture on virus elimination in grape vine”, College of Agriculture, University of Jordan, Amman, Jordan.
44. **Al-Ababneh, S.** Advisor. 1998-2001. M Sc. Thesis “Cryopreservation of bitter almond and source orange”, College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
45. **Ajlouni, Z.** Co-Advisor. 1998-2001. M Sc. Thesis “Callus and in vitro regeneration systems in Barley (*Hordeum vulgare* L.): Influence of genotype”, College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
46. **Shawawreh, K.** Co-Advisor. 1998-2002. M.Sc. Thesis “Productivity and growth tomato (*Lycopersicon esculentum* Mill.)”, College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
47. **Al-Shyab, S.** Advisor, 1998-2001. M Sc. Thesis “ Influence of salt stress on in vitro growth and mineral uptake in sour orange”, College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
48. **Al-Sane’, K.** 1997-2000. Advisor, M.Sc. Thesis “Factors Affecting Callusing, Cell Sus

pension Culture and Production of Secondary Metabolites in African Violet (*Saintpaulia ionantha* Wendl.)”. College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.

49. **Arafah, R.** 1997-1999. Advisor, M.Sc. Thesis. “Factors Affecting In Vitro Propagation, Callusing, Cell Suspension Culture and Secondary Metabolites Production in Sweet Marjoram (*Origanum vulgare* L.) and Syrian Marjoram *Majorana syriaca* L. Rafin (*Origanum syriacum* L.)”. College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
50. **Tahtamoni, R.** 1996-1998. Advisor, M.Sc. Thesis “In Vitro Conservation of wild Pear (*Pyrus syriaca*)”. College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
51. **Hozain, M.** 1994-1996. Co-Advisor, M.Sc. Thesis “Effect of Various Media on Micropropagation of M111 Apple Rootstock”. College of Agriculture, University of Jordan, Amman, Jordan.

Committee Member on Thesis Examination (examples):

1. Hantash; Lamees, 2019 M.Sc. Thesis. Phytoremediation In *Solanum vilosum*. Faculty of Agriculture, University of Jordan, Amman, Jordan
2. Al- Mohusaien Ruba. 2018. M.Sc. Thesis Physiological responses of olive trees under deficit irrigation and olive mill wastewater irrigation. Biological Sciences, Hashemite University. Zarqa - Jordan, University of Jordan, Amman, Jordan
3. Al-Assoli Islam. Physiological responses of selected carrot (*Daucus carota* L.) genotypes to different levels of NaCl. 2018.M. Sc. Thesis. Faculty of Agriculture, University of Jordan, Amman, Jordan
4. Hasan Shireen, 2018. M. Sc. Thesis. Establishment of TY-Based F2 population using marker assisted selection of tomato (*Solanun lycopersicum*) plants. Faculty of Agriculture, University of Jordan, Amman, Jordan
5. Al Saggar Hala, 2016. M. Sc. The influence of Salt and osmotic stress on GABA meabolsim and ROS aacumilation in barley (*Hordeum vulgare*). Faculty of Agriculture, Jordan University of Science and Technology, Amman, Jordan
6. Shatnawi, M; Al Shahab, M.; Abu-Rummann, S; Shibli, R. and Al-Domoor, H. clonal propagation, medium- term conservation and antimicrobial activity of *Ruta graveolens*: a medicinal plant. 2013. 8th IVCHB, International Symposium on In Vitro Culture and Horticultural Breeding, 2-7 June, University of Coimbra, Portugal.
7. Abbas Shifaa, 2015, In vitropropagation and anitimicrobial of *Ruta graveolens* M. Sc. Faculty of Agriculture, Jordan University of Science and Technology, Amman, Jordan
8. Alrayyes Linda, 2014, Factors affecting in vitro growth of *Moringa peregrina* (Forssk) Fiori and the plant antimicrobial activity M.Sc. Faculty of Agricultural Technology. Al Balqa Applied University. Al Salt- Jordan.
9. Al Zyoud, Yousef. 2013. Factors affecting in vitro propagation, callus induction, antimicrobial and insecticidal activities of *Artemisia herba-alba* plants. M.Sc. Faculty of Agricultural Technology. Al Balqa Applied University. Al Salt- Jordan.
10. Al Shhab, M. A. 2011. Clonal propagation medium term conservation and antimicrobial activities of *Ruta gravolens*: Jordanian medicinal plant. M. Sc. Faculty of Agriculture, Al

- Balqaa Applied University, Salt, Jordan.
11. Shahrestani, S. 2011. Physiological Response of three olive cultivar under saline conditions. M. Sc. Faculty of Science, the Hashemite University, Zarqa, Jordan.
 12. Al Majali, R. 2011. Analysis of short Tandem Repeats (STRs) of Y-Chromosome Among the Arab Iraqi Population. M. Sc. Faculty of Science, Al Al-Bait University, Mafraq, Jordan.
 13. Zaeater, A. 2010. Bioinformatics Analysis of the Proanthocyanidin Biosynthetic Pathway in Hawthorn (*Crataegus* spp.). M. Sc. Faculty of Agriculture, University of Jordan, Amman, Jordan
 14. Zatimeh, A. 2010. Diversity Analysis and Conservation of Milk Thistle (*Silybum marianum* (L.) Gaertn. Populations in Jordan .Ph.D. Dissertation. Faculty of Agriculture, University of Jordan, Amman, Jordan
 15. Barakat, A. 2010. A study of tissue compatibility between almond rootstocks and apricot using micro and ordinary grafting. Ph.D. Dissertation. Faculty of Agriculture, Aleppo University, Aleppo- Syria.
 16. Bawaliz A. 2010. Assessment of Agro-morphological and genetic variation among two Jordanian landraces of vetch (*Vicia sativa* and *Vicia ervilla* L.) revealed by AFLP molecular marker. Ph.D. Dissertation. Faculty of Agriculture, University of Jordan, Amman, Jordan
 17. Al-Tamimi, H. 2010. Identification and Cell Culture of Green Microalgae from the Gulf of Aqaba. Ms.C., thesis, faculty of Agriculture, University of Jordan, Amman, Jordan.
 18. Hussien, M. 2009. Response of Soybean and pearl millet grown in a row intercropping system under different soil salinity and irrigation levels. Ph.D., faculty of Agriculture, University of Jordan, Amman, Jordan.
 19. Zoubi, B.H. 2009. Establishment of callus and cell suspension culture of hawthorn (*Crataegus azarolus* L.). The University of Jordan, Amman, Jordan.
 20. Saleh, B.A. 2008. ATR analysis of Y-chromosome in the population of middle district of Jordan. In Al-Albayt University. Mafraq, Jordan.
 21. Al-Hazayme, I., 2007. Antibiotic production from *Streptomyces* QU66C. In Al-Albayt University. Mafraq, Jordan.
 22. Al-abadi, B., 2007. Genetic variations among Jordanian tomato landraces using simple repeat (SSR) and their salt tolerance at germination and seedling stages. In Jordan. Jordan University of Science and Technology. Irbid, Jordan.
 23. Husain, M., 2007. Tissue Culture Studies on Propagation of Two Multipurpose Tree Species- *Pterocarpus marsupium* Roxb. and *Melia azedarach* L. In Aligrah Muslim University. Aligrah, India.
 24. Rawashdeh, I., 2007. Variation among and within Populations of *Achillea fragrantissima* (Forsk.) Schultz Bip. From Jordan and Their Cultivation Potential. University of Jordan.
 25. Al-Omouh, M. 2007. Gross Chemical Composition, Mineral Content, Phenolics, Anthocyanines and Antioxidant Determination in Some Wild Plants with Medical Potential from Jordan. In Jordan. Jordan University of Science and Technology. Irbid, Jordan.
 26. Al-Lozi, S. 2007. Phenotypic and Genotypic Variation of Arum Species In Jordan. Jordan University of Science and Technology. Irbid, Jordan.
 27. Rawashdeh, I. 2007. Variation Among and within Populations of *Achillea Fragrantissima* (Forsk.) Schultz Bip. From Jordan and Their Cultivation Potential. University of Jordan.

- Amman, Jordan.
28. Ahmed F. Hussain. 2005. Development of Transgenic Tomato Plants Resistant to Tomato Yellow Leaf Curl Virus (TYLCV) via Gene Silencing Technology. Al-Balqaa' Applied University. Sult, Jordan.
 29. Isleem, W.R. 2005. In vitro Establishment of Somaclonal Olive (*Olive europeae L.*) cultivar. College of Agricultur, University of Jordan, Amman, Jordan.
 30. Al Sakran, L. S. 2004. M. Sc. Arabicization of Agricultural Terms from a Terminology Planning Perspective. Yarmouk University, Irbid, Jordan.
 31. Al-Rawashdeh, N. 2004. M.Sc. Phenotypic diversity for agronomic and morphological traits for durum wheat landraces from Jordan. College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
 32. Al-Fawaz, A., 2003. Production of Antimicrobial Agents from Cyanobacteria. In Al-Albait University. Mafraq, Jordan.
 33. Al-Omari, Y. 2003. M.Sc. Influence of Potassium and Salinity on cucumber plants (*Cucumis sativus L.*) grown in hydroponics. College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
 34. Abu-Rumman S. M. 2003. In vitro study of the physiological responses of 'Sultan' cucumber to induced salinity and osmotic stress. College of Agricultur, University of Jordan, Amman, Jordan.
 35. Damer S. I. 2003. *Gysophila paniculata L.* Micropropagation. College of Agriculture, University of Jordan, Amman, Jordan.
 36. Al Dehadheh A. M. 2003. Morphological and biochemical characteristics of pollen from some olive (*Olea europaea L.*) cultivars in Jordan. College of Agriculture, University of Jordan, Amman, Jordan.
 37. Al Shbail, N. 2003. Antibacterial activity of some plant extracts from al mafraq area. De partment of Biology. Al-Albyt University. Mafraq, Jordan.
 38. Naji, A. S. 2002. Agar production from marine algae in the red sea (Gulf of Aqaba, Jordan and Port of makha, Yamen). Department of Biology. Al-Albyt University. Mafraq, Jordan.
 39. Arikat, N.A. 2002. M.Sc. In vitro propagation and secondary metabolite production in sage (*Salvia fruticosa L.*). College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
 40. Haddad J. 2002. M.Sc. Effect of H₂O₂ and ethephone on seedling chilling tolerance, fruit yield and post harvest qualities of tomato. College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
 41. Al-Hamouri, A. 2002. M.Sc. Fertilizer use efficiency under vegetable drip fertigation systems. College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
 42. Al-Mahadeen, A. Y. 2001. Ph.D. Analysis of growth and seed production of onion in response to GA₃, bulb size, cold storage, planting and population pressure at Ghor Al-Safi. University of Jordan, Amman, Jordan.
 43. Al-Sukkar, O.A. 2000. M.Sc. Germination studies on *Pistacia palestina Boiss* seeds using chemical and physical treatments. University of Jordan, Amman, Jordan.
 44. Chibani, K.A. 2000. M.Sc. Effect of auxin source and concentration on in vitro regeneration of two citrus rootstocks. University of Jordan, Amman, Jordan.
 45. Qubaj, T. 1999. M.Sc. Effect of acid or base treatments on rooting of semi-hard

- wood cuttings of ‘Nabali’ olive cuttings. University of Jordan, Amman, Jordan.
46. Al-Majthoub M. 1999. M.Sc. In vitro propagation of wild cyclamen (*Cyclamen persicum* Mill). College of Agriculture, Jordan University of Science and Technology, Irbid, Jordan.
 47. Al-Salhi, T. 1998. M.Sc. Identification of Potato Virus Y (PVY) Variants Affecting Pepper Cultivars (*Capsicum* spp.) in Jordan. College of Agriculture, University of Jordan, Amman, Jordan.
 48. Al-Soudi, L. 1998. M.Sc. Removal of Wastewater Nutrients and Heavy Metals by Immobilized Microalgae. Department of Biology. Al-Albyt University. Mafraq, Jordan.
 49. Bashabsheh, N. 1998. M.Sc. Effect of Soil Conditioners and Plastic Mulches on the Performance of ‘Ashuri’ Pistachio in Almuqar Area. College of Agriculture, University of Jordan, Amman, Jordan.
 50. Al-Azizi, M.J. 1998. M.Sc. The effect of potassium fertilizers on yield and quality of processing tomatoes. University of Jordan, Amman, Jordan.
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Community Education:

- Have helped many private companies and institution in developing their biotechnology projects and programs.
- Have participated in many radio programs and TV shows explaining the aspects of utilizing tissue culture techniques for nursery production and farming.
- Have written many newspaper and magazine articles (i.e. Agriculture Engineer Magazine) about tissue culture and its utilization.
- Have participated in many forums explaining different aspects of plant tissue culture and biotechnology to interested people.
- Have participated in the organization of many workshops and was a member of the Committee of many conferences in Jordan.

References:

- Dr. Mary Ann Lila, Professor of Plant Physiology *
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