



Tamara Said Ali Al-Qudah

Plant tissue culture Lab. Supervisor
Hamdi Mango Center for Scientific Research (HMCSR)
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PERSONAL INFORMATION

Nationality: Jordanian

Place of Birth: Ajloun, Jordan

Date of Birth: May 2nd 1984

Gender: Female

Marital status: Married

Residence place: Sweileh - Amman- Jordan

EDUCATION

2010

M.Sc., Plant Production, Jordan University of Science and Technology (JUST), Irbid, Jordan.
Thesis entitled "In vitro propagation, callusing and secondary metabolites in (*Teucrium polium*)".
GPA: 90.6% (Grade A).

2006

B.Sc., Plant Production, Jordan University of Science and Technology (JUST). GPA: 82.0% (Grade B+).

2002

General Secondary Education Certificate Examination – Scientific Stream. Ain-Jana secondary school for girls. GPA: 74.8% (Grade B).

CURRENT JOB

🌸 **Lab. Supervisor (plant tissue culture laboratory)**, Hamdi Mango Center for Scientific Research (HMCSR), University of Jordan, Dec./ 2011- till now.

TRAINING Courses and EXPERIENCES

🌸 **Summer Training Course**, B.Sc., June-Aug 2005- in:-

- ✿ Private sector (AL- Rajaa modern farm- Al- Koom Al-Ahmer- Mafraq- Jordan)
- ✿ National Center for Agriculture Research and Extension (NCARE) / Seed Technology Lab, Biotechnology lab and Virology Lab (Al-Baqaa – Jordan).
- ✿ Al-Faisal Nursery (Government Nursery/ Jerash- Jordan)
- ✿ Agriculture Center for Research and Production, JUST (Tissue Culture Lab).
- ✿ JUST model farm.

🌸 **Computer Skills** (Windows, WinWord, Excel, PowerPoint, Microsoft Office, Internet explorer, publisher).

🌸 **Professional Printing skills** in Arabic and English Language.

🌸 **Teaching Assistant (TA)** at Department of Plant Production- Jordan University of Science and Technology for these courses:

- Principles of Plant Science (first semester /2006-2007).
- Crop Production (first semester /2006-2007).
- Green Forage Production (second semester 2006/2007)
- Vegetable Plant Production (second semester /2006/2007 – first and second semester 2007/2008- first semester 2008/2009).
- Insect Science (first semester 2008-2009).

🌸 **Research assistant.** Department of Horticulture and Agronomy, College of Agriculture, University of Jordan, Amman, Jordan. Under the project research title (Micropropagation, and In vitro conservation of *Arum palaestinum*). From 4/2009- 12/2011.

🌸 Excellent experience in the preparation and organization of several events including seminars, lectures, meetings.....etc.

🌸 Excellent experience in the preparation of manuscript of (Biotechnology, Agriculture and Scientific Topics) for publication in international Journals such as (Plant Cell and Development

Biology, In Vitro Cellular and Development Biology, Cryoletters, Scientia Horticulturae, Jordan Journal Of Agricultural Science,... etc) and at the rules of this journals.

- ☼ Excellent experience in the preparation of brochures and posters for conferences and other events.
- ☼ Excellent experience in the research and laboratory works; including experimental works, data collecting and analysis, and overall rules of public safety in the laboratoryetc.

SKILLS and LANGUAGES

- ☼ Experimental design and data analysis using SAS and SPSS software.
- ☼ Experience in Microsoft office (MS-Word, Access, PowerPoint, and Excel), Versions: Microsoft Office 9X, XP, 2000, 2003, 2007, and 2010.
- ☼ **Languages:**
 - ☼ **Arabic:** Very excellent Arabic Language, (Reading, Writing and Speaking), (Mother tongue language).
 - ☼ **English:** Very excellent, (Reading and Writing) and very good command of speaking.

SPECIAL SKILLS

- ☼ Participating in workshops and attending conferences such as:
 - International Conference on the Conservation and Use of Socio- Economically Important Wild Plants in the Fertile Crescent, The Royal Botanic Garden, April 8-9, 2014. Amman-Jordan
 - JOCHERA Final Conference, Hamdi Mango Center for Scientific Research, Amman, Jordan, Nov., 2013
 - The Fifth Conference on Scientific Research in Jordan. Jordan Society of Scientific Research. Landmark Hotel, Amman, Jordan. Nov. 2011.
 - The 2nd International Symposium on Medicinal Plants, Their Cultivation and Aspects of Uses (Petra-Jordan /2010)".
 - The Fourth Conference on Scientific Research in Jordan. Jordan Society of Scientific Research. Landmark Hotel, Amman, Jordan. Nov. 7, 2009.
- ☼ Participating in interviews, such as the interview in the Jordan University radio about distinct master thesis.
- ☼ Experience in writing and preparation of proposals for research funding and application.
- ☼ Doing training to Royal botanic garden staff on plant cryopreservation at HMCSR (Hamdi Mango Center for Scientific Research).
- ☼ Sharing on the European- Funded project in the ERA: BOT-ERA "Reinforcing cooperation between the Royal Botanic Garden of Jordan and ERA" in collaboration with Hamdi Mango Center to apply the project entitled "Joint Research project: Effect of liquid nitrogen (LN) exposure on survival of selected plant species from Jordan" from 4/2013-4/2014.
- ☼ Taking a Training course in IRD Montpellier, France May 26 to 2nd June 2013 on cryopreservation techniques for long-term conservation of plant genetic resources (V- Cryoplate, Droplet-Vitrification, Encapsulation dehydration and seed cryopreservation) and scientific visit to review joint research progress, under the supervision of Dr. Florent Englemann, IRD, France.

PUBLICATIONS

- **Tamara S. Al-Qudah**, Rida A. Shibli, Feras Q. Alali. In vitro propagation and secondary metabolites production in wild germander (*Teucrium polium* L.). In Vitro Cellular and Developmental Biology– Plant, (2011) 47, 496-505.
- R.A. Shibli, M. A. Duwayri, J. S. Sawwan, M. A. Shatnawi and **T. S. Al-Qudah**. Regeneration via somatic embryogenesis of the endangered wild arum (*Arum palaestinum*). In Vitro Cellular and Developmental Biology – Plant, (2012), 48:335-340.
- Daradkeh N.Q., R. A. Shibli, I. M. Makhadmeh, F. Alali, **T. S. Al-Qudah**. 2012. Cell Suspension and *in vitro* production of colchicine in wild *Colchicum hierosolymitanum* Feib. The Open Conference Proceedings Journal. 3 (Suppl 1-M9), 52-59.
- Daradkeh N.Q.; R.A. Shibli, I. Makhadmeh; F. Alali and **T. S. Al-Qudah**. 2012. Callus culture and somatic embryogenesis in wild *Colchicum hierosolymitanum* Feib. Jordan Journal of Agricultural Sciences. 8: 536-556.
- Al Hawmdeh F., R.A. Shibli, **T.S Al Qudah**. 2014. In vitro Propagation of *Silybum marianum* L. Jordan Journal of Agricultural Sciences. 10: 120-129.
- Al Hawmdeh F., R.A. Shibli, **T.S Al Qudah**. 2013. In vitro Production of Silymarin from *Silybum marianum* L. Medicinal & Aromatic Plants. In press.
- Tahtamouni RW, Shibli RA, Al- Abdallat AM, **Al-Qudah TS**, Younis L, Al- Baba H and Al- Ruwaiei H. **2014**. Analysis of *Thymbra spicata* L. var. *spicata* microshoots as affected by slow growth conservation Turkish Journal of Agriculture and Forestry. In press.
- Tahtamouni RW, Shibli RA, Al- Abdallat AM, **Al-Qudah TS**, Younis L, Al- Baba H and Al- Ruwaiei H. **2014**. In Vitro Conservation and Cryopreservation of Medicinal and Aromatic Plants: A Review. Jordan Journal of Agricultural Sciences. In press.
- Younis L, Shibli RA, **Al-Qudah TS**. In vitro propagation and acclimatization of *Achillea fragrantissima* Forssk Sch. Bip . **2014**. Jordan Journal of Agricultural Sciences. In press.
- Younis L, Shibli RA, **Al-Qudah TS**. Medium-Term Conservation of *Achillea fragrantissima* Forssk Sch. Bip microshoots. **2014**. Jordan Journal of Agricultural Sciences. In press.
- Al Hawmdeh F., R.A. Shibli, **T.S Al Qudah**. **2014**. In vitro Propagation of *Silybum marianum* L. Jordan Journal of Agricultural Sciences. 10: 120-129.
- Sharaf S, Shibli R.A, Kasrawi M.A, **Al Qudah T.S**. **2014**. Vitrification & droplet Vitrification for wild Artemisia (*Artemisia herba alba asso.*) shoot tips. Jordan Journal of Agricultural Sciences. In press

Papers submitted to journals

- Laila S. Younes, Rida A. Shibli, **Tamara S. Al-Qudah**. In Vitro Medium Term Conservation of *Achillea fragrantissima* Forssk Micro-shoots. 2014. Jordan Journal of Agricultural Sciences.

- Reham W. Tahtamouni, Rida A .Shibli, Ayed M. Al- Abdallat, **Tamara S. Al-Qudah**. Assessment of genetic stability of cryopreserved *Thymbra spicata* L. var. *spicata* shoot tips using Amplified Fragment Length Polymorphism (AFLP) technique. 2014. Scientia Horticulturae.

- Reham W. Tahtamouni, Rida A .Shibli, Ayed M. Al- Abdallat, **Tamara S. Al-Qudah**. Analysis of *Thymbra spicata* L. var. *spicata* microshoots as affected by slow growth conservation. 2014. Turkish journal of Agricultural and Forestry.

- Laila S. Younes, Rida A .Shibl, **Tamara S. Al-Qudah**. Cryopreservation of *Achillea fragrantissima* Forssk Sch. Bip Shoot-tips by Vitrification and Encapsulation-Dehydration. 2014. Physiology and Molecular Biology of Plants

Sarab A. Sharaf¹, Rida A. Shibli^{1*}, Mahmood A. Kasrawi¹, Savinaz H. Baghdadi¹, **Tamara S. Al-Qudah**² Vitrification and droplet-vitrification cryopreservation for wild Artemisia (*Artemisia Herba-ALBA ASSO.*) shoot-tips. Physiology and Molecular Biology of Plants. 2013

Papers in preparation

-Sawwan, J. S.; A. M. Al Abdallat, T.S. Al Qudah, M. Kushad, M. Zucoloto. Hawthorn (*Crataegus aronia* L.) Hawthorn (*Crataegus aronia* L.) polyphenols profiling using electron spray ionization liquid chromatography mass spectroscopy (LCMS). Journal of Food Agriculture and Environment. 2014

- R.A. Shibli, M. A. Duwayri, J. S. Sawwan, M. A. Shatnawi and **T. S. Al-Qudah**. Cryopreservation of the endangered wild arum (*Arum palaestinum*) Shoot-tips by Vitrification. 2014.

- R.A. Shibli, M. A. Duwayri, J. S. Sawwan, M. A. Shatnawi and **T. S. Al-Qudah**. Cryopreservation of the endangered wild arum (*Arum palaestinum*) Shoot-tips by Encapsulation-Dehydration and Encapsulation-vitrification. 2014.

Sawwan J. S., A. M. Al Abdallat, Al Rawshdeh N., **T.S. Al Qudah**. Effect of *moringa* extracts on Hawthorn *Crataegus aronia* L.) Callus growth. 2014

Abstract (published) examples:

- **Al- Qudah T.**, R. Shibli and F. Alali. 2010. In vitro propagation and secondary metabolites production in wild germander (*Teucrium polium* L.). The Second International Symposium on Medicinal Plants: Their Cultivation and Aspects of Uses. Nov. 3-4. Petra, Jordan.

- Englman F, **Al Qudah T.**, Saifan S, Shibli R. International Conference on the Conservation and Use of Socio- Economically Important Wild Plants in the Fertile Crescent, The Royal Botanic Garden, April 8-9, 2014. Amman-Jordan

- Al Qudah T, Shibli R, Saifan S, Engelmann F. In Vitro Multiplication and Cryopreservation of Silvery Whitlow Wort (*Paronychia argentea*) shoottips by V-Cryoplate Technique. مؤتمر الانتاج الزراعي في الوطن العربي بين الواقع و الطموح. Jerash University, June, 24-26/2014. Jerash- Jordan

Ongoing project

- 1- Influence of salinity stress on growth and physiological changes of *in vitro* transgenic barely (*Hordeum vulgare* L.) cultures overexpressing stress tolerance gene.
- 2- The effect of temperture on the quality and qunantity of secondary metabolites produced from *in vitro* callus of *Crataegus aronia* L

Completed project

- 1- In vitro regeneration of *Narcissus tazetta*.
- 2- *In vitro* production of alkaloids in black nightshade *Solanum nigrum* L. , and assessment of their anti- cancer , in addition to evaluation of genetic stability in the microshoot, callus and cell suspension cultures.
- 3- In vitro propagation and conservation of wild *Feniculum vulgare*.
- 4- Effect of liquid nitrogen (LN) exposure on survival of selected plant species from Jordan
- 5- In vitro propagation, callus establishment and secondary metabolites production *Solanum nigrum* L and *Solanum villosum* L. Mill

Special workshops

- ⊗ Participating in a workshop on new plant cryopreservation techniques, IRD, Montpellier, France, 27-31, May, 2013. Under supervision of Dr. Florent Englmann.
- ⊗ Participating in the organizing comity for International Conference on the Conservation and Use of Socio- Economically Important Wild Plants in the Fertile Crescent, The Royal Botanic Garden, 8-2012/4-2014.

HOBBIES

- ⊗ Hand Crafting
- ⊗ Reading
- ⊗ Traveling
- ⊗ Gardening


Memberships


- Member in professional Association of Agricultural Engineers, since 2006.
- Attending many courses in the Association of Agricultural Engineers. Such as the management of small project.


PERSONALITY


- Hard worker, and do very well under stress.
- Having the first grade on both the B.Sc. batch in 2006 and the M.Sc. in 2010 .
- Having excellent certificates for being a distinct over the students in school and university.
- Outgoing and aims of learning new experience in both life and scientific research.
- Ambitious and planning for the future is a must in order to complete studies and own a PhD in Biotechnology.


REFERENCES


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Providing reference letters upon request