

السيرة الذاتية
د. خالدون عثمان الصانع



Permanent Address:

Amman, Jordan

Mobile: (00962) 798420584

E-mail: khaldoun1975@hotmail.com

Personal Profile البيانات الشخصية

- **Date of Birth:** March 14, 1975
- **Place of Birth:** Irbid, Jordan
- **Marital Status:** Married (+3 children)
- **Nationality:** Jordanian

[You Tube](#) /khaldounalsane

Education المؤهلات العلمية

الدولة	الجامعة	الكلية والقسم	التخصص الدقيق	التخصص العام	السنة	المؤهل
ITALY	Sant'Anna School of Advanced Studies	كلية علوم الحياة	التنوع الحيوي النباتي Plant Biodiversity	علم النبات Plant Science	2010	الدكتوراه PhD
JORDAN	Jordan University of Science and Technology	كلية الزراعة - قسم الإنتاج النباتي	البستنة - زراعة الأنسجة Horticulture - Tissue Culture	الإنتاج النباتي Plant Production	2001	الماجستير MSc
JORDAN	Jordan University of Science and Technology	كلية الزراعة - قسم الإنتاج النباتي	علم النبات Plant Science	الزراعة Agriculture	1997	البكالوريوس BSc

PhD Dissertation عنوان رسالة الدكتوراة

Molecular regulation of anthocyanin biosynthesis in some tomato mutants: a gene expression approach

MSc Thesis عنوان رسالة الماجستير

Factors Affecting Callusing, Cell Culture and Production of Secondary Metabolites
in African violet (*Saintpaulia ionantha* Wendl.)

الخبرات الوظيفية Professional Experience

أبرز المهام	المكان	التاريخ	الوظيفة
<p>- تدريس مقررات البكالوريوس التالية:</p> <p>الأحياء العامة، الشكل الظاهري للنبات، فسيولوجيا النبات (1، 2)، نبات إقتصادي، تصنيف النبات التجريبي، بحث التخرج، علوم أساسية (طلاب كلية التربية).</p> <p>- تدريس مقررات الماجستير التالية:</p> <p>التنوع الحيوي، دراسات حقلية، النباتات الطبية، ندوة</p> <p>- منسق مقرر الأحياء العامة (101 حيا) لمدة 6 فصول دراسية</p> <p>- رئيس لجنة تطوير مقرر الأحياء العامة (101 حيا)</p> <p>- عضو لجان تطوير مقررات البكالوريوس المذكورة أعلاه</p> <p>- إعداد مذكرات القسم لبعض المقررات التي أقوم بتدريسها</p> <p>- تفعيل نظام التعلم الإلكتروني (البلاك بورد)</p> <p>- عضو في لجان القسم التالية:</p> <ul style="list-style-type: none"> • لجنة الجودة والإعتماد الأكاديمي (لمدة 4 سنوات) • اللجنة الثقافية والاجتماعية • لجنة شؤون الطلاب والخريجين <p>- نشر 5 أبحاث باسم جامعة الملك خالد، اضافة الى بحث آخر تتم حالياً مراجعته وتحكيمه.</p> <p>- المشاركة في مؤتمرات عالميين: في ماليزيا وفي تركيا.</p> <p>- المشاركة في تحكيم كتابي فسيولوجيا النبات لأحد أعضاء هيئة التدريس واعتمادهما للتدريس في القسم.</p> <p>- المشاركة في لجان التحكيم لبعض أبحاث طلاب البكالوريوس والماجستير.</p>	<p>جامعة الملك خالد كلية العلوم قسم الأحياء المملكة العربية السعودية</p>	<p>سبتمبر - 2011 سبتمبر 2015</p>	<p>أستاذ مساعد</p>
<ul style="list-style-type: none"> □ A study of salt tolerance in tomato (<i>Solanum lycopersicum</i> L.) and pepper (<i>Capsicum annuum</i> L.) using <i>in vitro</i> and hydroponic culture systems □ Isolation, identification and quantification of essential volatile oils extracted from Thyme (<i>Origanum syriacum</i> L.) grown in Jordan 	<p>الجامعة الأردنية كلية الزراعة الأردن</p>	<p>مارس - 2010 سبتمبر 2010</p>	<p>باحث</p>

<ul style="list-style-type: none"> ❑ Molecular and Morpho-agronomic Characterization and Evaluation of Landraces of Some Wild Plant Species Native to Jordan: Crocus Project ❑ Conservation & Sustainable Use of Dryland Agro-Biodiversity Project in Jordan Funded by: Global Environment Facility (JEF) & United Nations Development Programme (UNDP). Implemented by: NCARE. 	<p>المركز الوطني للبحث الزراعي والإرشاد الأردن</p>	<p>فبراير - 2005 يناير 2006</p>	<p>باحث</p>
<ul style="list-style-type: none"> ❑ Supervising (3) sections: Crops, Horticulture and Landscaping including about 90 employees with the following main duties: ❑ In crops section: Supervising forage production (center pivots planted mainly with alfalfa & rhodes); center pivots operation, irrigation, fertilization and pest control programs including insecticides, fungicides and herbicides application, harvesting, baling, green forage chopping and alfalfa bagged silage operations, forage quality control and assessment both physically and chemically. In horticulture section: Supervising vegetable production in open field and under greenhouse systems (15 greenhouses), lemon orchard management (600 trees), date palm trees management (1000 trees), in addition to pest control programs. In landscaping section: Supervising planting and management of outdoor ornamental plants, trees and flowers. 	<p>شركة العثمان (ندى) للإنتاج والتصنيع الزراعي المملكة العربية السعودية</p>	<p>ابريل - 2001 أغسطس 2004</p>	<p>مشرف قسم المحاصيل والبساتين</p>
<ul style="list-style-type: none"> ❑ Perform research work in the field of plant tissue culture. ❑ Review of several research proposals. 	<p>جامعة العلوم والتكنولوجيا الأردنية كلية الزراعة الأردن</p>	<p>ديسمبر - 2000 ابريل 2001</p>	<p>مساعد بحث</p>

<ul style="list-style-type: none"> ❑ Teaching Laboratory sections of Deciduous Fruit Trees, Irrigation and Drainage. ❑ Supervising the department greenhouse and computer lab. 	جامعة العلوم والتكنولوجيا الأردنية كلية الزراعة الأردن	سبتمبر - 1997 مايو 2000	مساعد بحث وتدریس
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Conferences & Workshops المؤتمرات وورش العمل

- **5th International Conference on Biology and Medical Sciences (ICBMS'15) ---- Jun, 2015**
Antalya, Turkey
- **Using PREZI Software in Presentation e-Training Workshop ----- May, 2015**
Saudi Digital Library, Riyadh, Saudi Arabia
- **"CABI database" e-Training Workshop ----- Apr, 2015**
Saudi Digital Library, Riyadh, Saudi Arabia
- **International Conference on Advances in Environment, Agriculture and Medical Sciences (ICAEAM'14) ----- Nov, 2014**
Kuala Lumpur, Malaysia
- **1st Saudi Scientific Publishing Conference ----- Jan, 2014**
Abha, Saudi Arabia
- **Workshop on the National Science, Technology and Innovation Plan (NSTIP) ----- Oct, 2013**
Abha, Saudi Arabia
- **"Qudra Tech" Initiative for Research Skill Development ----- Mar, 2013**
Abha, Saudi Arabia
- **An International Workshop**
"Tomato 2006 Genetics, Physiology and Technology" ----- Oct, 2006
Pisa, Italy
- **A National Workshop**
"The Functional Agrobiodiversity: The Point of View of Agronomists--Oct, 2006
Pisa, Italy
- **Program Management Workshop ----- Aug, 2005**
United Nations Development Program (UNDP), Amman, Jordan

الدورات التدريبية والشهادات **Training Courses & Certificates**

- **Students' Activity Appreciation Certificate** ----- May, 2015
Abha, Saudi Arabia
- **"Secrets of Success " Training Course** ----- Dec, 2014
Trainer: Dr. Rashad Faqiha
Abha, Saudi Arabia
- **A National Symposium on Present and Future of English in Saudi Arabia:
Research Concerns** ----- Oct, 2014
Abha, Saudi Arabia
- **"Cooperative Learning" Training Course** ----- Nov, 2013
Abha, Saudi Arabia
- **"E-learning Skills" Training Course** ----- 2012
Blackboard 9.1
Abha, Saudi Arabia
- **"E-learning Skills" Certificate** ----- Oct, 2011
Abha, Saudi Arabia
- **"Virtual Classes-Eluminate" Certificate** ----- Oct, 2011
Abha, Saudi Arabia
- **Congress for the preparation and competition in the 3rd Conference of
Higher education students** ----- 2011
Abha, Saudi Arabia
Deanship of Students Affairs, King Khalid University
- **Integrated Pest Management (IPM) for Medicinal and Herbal Plants --Jul., 2005**
Baq'a, Jordan
The Project of Conservation of Medicinal and Herbal Plants of Jordan
National Center for Agricultural Research & Extension (NCARE)
- **Internal Quality Auditing (ISO 9001:2000) Certificate** ----- Nov, 2001
Dammam, Saudi Arabia
National Inspection and Technical Testing Co. Ltd. (FAHSS/TUV)
- **Environment Conservation Certificate** ----- Aug., 1996
Amman, Jordan
The Jordanian Society for Desertification Control and Badia Development

المنح والجوائز التقديرية **Awards and Honors**

- ✓ **Sant'Anna Scholarship** **منحة الجامعة الإيطالية سانتانّا للدراسات العليا** **2006**
Winner of doctoral scholarship for the international doctoral program at Sant'Anna School of Advanced Studies of Pisa (Biodiversity)
Pisa, Italy
- ✓ **Prince Firas Bin Raid's Award** **جائزة سمو الأمير فراس بن رعد** **2001**
Distinguished Graduate Students at Jordan University of Science & Technology
Irbid, Jordan

✓ King Hussein's Award جائزة جلالة الملك الحسين بن طلال رحمه الله 1997

Distinguished Students at Jordan University of Science & Technology

Irbid, Jordan

✓ Deanship Honor List لائحة شرف الكلية Several semesters, 1994-1997

College of Agriculture, Jordan University of Science & Technology

Irbid, Jordan

✓ University Golden Honor List لائحة شرف الجامعة الذهبية 2nd Semester, 1995/1996

Jordan University of Science & Technology

Irbid, Jordan

✓ Senate Council Head's Award جائزة رئيس مجلس الأعيان 1995

Distinguished Students at Jordan University of Science & Technology

Irbid, Jordan

Teaching Philosophy الفلسفة التعليمية

This brief description of my philosophy provides a basis for what I feel about the education process, and what I want my students to feel when they attend my courses.

I can realize that my task in the department is to increase knowledge of the students and their understanding of the courses being taught, and to facilitate complex issues and creating ways to develop their different academic skills. Furthermore, long-term goals for students should be set, and goal-oriented education system has to be followed allowing students to achieve these goals. As a part of this, continuous monitoring and development of each student should continue over time, allowing students to bear the responsibility and use what they are learning later in their life.

I believe that some of the main pillars of the teaching process are:

- To have a clear set of objectives and trying the maximum to meet the quality standards
- To develop unique and independent ideas among students to solve problems and reach the right conclusions
- To encourage group interaction and teamwork among students so that they would be able to share ideas and build a strong social life.
- To establish a student-teacher evaluation process and benefit from their feedback to develop or even change my teaching methods and strategies or trying new ideas or strategies on regular basis as well.
- To build a strong relationship with my students in and out of class so that students would appreciate the scientific material more and like being involved in the course.
- To encourage my students to participate in the class. This can reveal their proficiency levels and, on the other hand, resembles a “mirror” that reflects my effort with the students inside the class.

Languages اللغات

- ❑ Arabic (mother tongue)
- ❑ English
- ❑ Italian

Skills & Other Experiences المهارات والخبرات الأخرى

- Skilled in internal quality auditing as per:
 - National Commission for Academic Accreditation & Assessment (NCAAA) requirements and procedures, Saudi Arabia
 - *ISO 9001:2000* requirements and procedures
- Has been selected for the system of (Research Management and Follow up) in Northern Boarder University.
- Very good knowledge of Microsoft Office (Word, Excel, PowerPoint), and other windows- based software.
- Very good knowledge of internet applications and have social media personal pages on facebook, twitter, youtube & linkedin.
- Skilled in plant tissue culture, separation of chemicals and oils, HPLC analysis, and running reactions of real time-PCR for gene expression detection.
- Data processing and statistical analysis using different statistical software.

Research Interests الإهتمامات البحثية

- Plant Tissue Culture, Biotechnology, and Biodiversity studies
- Plant biology, physiology, and molecular biology

Publications النشر العلمي

Articles-Published:

- Barhoumi Zouhaier, Maatallah Mariem, Rabhi Mokded, Aida Rouached, **Khaldoun Al Sane**, Abdelly Chedly, Smaoui Abderrazek, Atia Abdallah. **2016**. Physiological and biochemical responses of the forage legume *Trifolium alexandrinum* to different saline conditions and nitrogen levels. *J Plant Res* 129:423 – 434. DOI 10.1007/s10265-016-0791-6
- Kamel Msaada, Sonia Tammar, Nidhal Salem, Olfa Bachrouch Jazia Sriti, Majdi Hammami, Sawsen Selmi, Sana Azaiez, Adel Hadj-Brahim, **Khaldoun Al Sane**, Ferid Limam, and Brahim Marzouk. **2016**. Chemical Composition and Antioxidant Activities of Tunisian *Thymus capitatus* L. Methanolic Extract. *International Journal of Food Properties*, 19:1381–1390. DOI: 10.1080/ 10942912.2015.1082138

- **Khaldoun O. Al Sane. 2015.** Phenotypic and molecular characterization of anthocyanin biosynthesis and accumulation in fruit tissues of a selected tomato mutant. *International Journal of Chemical, Environmental and Biological Sciences (IJCEBS)*. Volume 3, Issue 4 (2015) ISSN 2320–4087
- **Khaldoun O. Al Sane** and Abd El-Latif Hesham. **2015.** Biochemical and genetic evidences of anthocyanin biosynthesis and accumulation in a selected tomato mutant. *Rend. Fis. Acc. Lincei*. DOI 10.1007/s12210-015-0446-x
- Kamel Msaada, Nidhal Salem, Olfa Bachrouch, Slim Bousselmi, Sonia Tammar, Abdulkhaleg Alfaify, **Khaldoun Al Sane**, Wided Ben Ammar, Sana Azeiz, Adel Haj Brahim, Majdi Hammami, Sawsen Selmi, Ferid Limam, Brahim Marzouk. **2015.** Chemical Composition, Antioxidant and Antimicrobial Activities of Wormwood (*Artemisia absinthium*) Essential Oils and Phenolics. *Journal of Chemistry*. Volume 2015, Article ID 804658, 12 pages. <http://dx.doi.org/10.1155/2015/804658>
- Safwan Shiyab, Bassam Al-Qarallah, Mohanad Akash, Mohammed Statieh, Jamal Ayad , **Khaldoun Al Sane. 2014.** Response of Okra (*Abelmoschus esculentus* L.) to Different Levels of Hoaglands Solution. *Life Science Journal*;11 (10). pp:1080-1086.
- **Khaldoun O. Al Sane**, G. Povero and P. Perata. **2011.** Anthocyanin tomato mutants: overview and characterization of an anthocyaninless somaclonal mutant. *Plant Biosystems*. vol. 145. pp: 1-9. ISSN 1126-3504 print/ISSN 1724-5575 online. DOI: [10.1080/11263504.2010.548914](https://doi.org/10.1080/11263504.2010.548914)
- **Khaldoun O. Al Sane**, R. Shibli, N. Freihat, and M. Hammouri. **2005.** Cell Suspension Culture and Secondary Metabolites Production in African violet (*Saintpaulia ioanantha* Wendl.). *Jordan Journal of Agricultural Sciences (JJAS)*, vol. 1. pp: 84-92.

[Articles-Submitted to journals for Peer-review:](#)

- Abdul Latief A. Al-Ghzawi, Wesam Al Khateeb, Abdoul Rjoub, Abdel Rahman M. Al-Tawaha, **Khaldoun O. Al Sane. 2017.** Lead Toxicity Affects Growth and Biochemical content in Various Genotypes of Barley (*Hordeum vulgare* L.): Future Horizons (Submitted).
- Abdul Latief A. Al-Ghzawi, **Khaldoun O. Al Sane. 2017.** Evaluation of Yield Components, Agronomic and Physiological Characters of Three Wheat (*Triticum aestivum* L. and *T. durum* Desf.) Varieties under Four Water Regimes in Dry Regions of Jordan (Submitted).



Articles-in preparation:

- **Khaldoun O. Al Sane. 2017.** Variations in the protein content for some *Juniperus* species grown in Saudi Arabia: a biodiversity approach.

Research Proposal(s) submitted:

- **Khaldoun O. Al Sane. 2015.** Expression Profile of Selected Genes in Different Tomato Genotypes under Drought Stress Conditions in Saudi Arabia. Submitted to: the National Science, Technology and Innovation Plan (NSTIP), King Abdel Aziz City for Sci. & Tech., Saudi Arabia.

Committees & Tasks اللجان والمهام

- Committee of (Plant Physiology) course improvement 2nd semester, 2015
- Committee of (Economic Plants) course improvement 2nd semester, 2015
- Head of Committee of (General Biology-BIO101) course improvement 1st semester, 2014
- Committee of (Plant Morphology) course improvement 1st semester, 2014
- Committee of (Student's Affairs) 2nd semester, 2013 - 2015
- Committee of Final Exams (for 3 semesters) 2011-2012
College of Science, King Khalid University
- Committee of Quality & Academic Improvement 2011 - 2015
Dept. of Biology and College of Science, King Khalid University
- Cultural & Social Committee 2013 - 2015
Dept. of Biology, King Khalid University
- Representative of the National Plan of Information Technology and Communication (TAHAWL) Management Office Feb, 2013 – Apr, 2014
Establish Social Media Networks in the College of Science, King Khalid University
   /kkuscience
- Department Website Jan, 2014 – July, 2014
Dept. of Biology, King Khalid University.

Membership عضوية الجمعيات والهيئات العلمية

- **Jordan Agricultural Engineering Association** نقابة المهندسين الزراعيين
Amman, Jordan. Membership No. 6254
- **Royal Agricultural Society of England**
- **British Science Association**
- **Institute of Research Engineers and Doctors (IREDD)**
- **Taxonomic Databases Working Group (TDWG)**
Also known as the Biodiversity Information Standards.

References المَعْرِفُون

Prof. Rida Shibli Khawaldeh
Professor of Plant Biotechnology and Biodiversity
Member of Senate Council
Former Minister of Agriculture
Former President of Mu'tah University
Amman 11181 Jordan
Mobile: +962 796862222
E-mail: r.shibli@uj.edu.jo

Prof. Ghazi Nazzal Al-Karaki
Professor of Plant Physiology
Faculty Member, Dept. of Plant Production
College of Agriculture
Jordan University of Science and Technology
Irbid 22110 Jordan
Tel: +962 2 7201000 Ext. 22243
E-mail: gkaraki@just.edu.jo

Dr. Hashim K. Al Zahrany
Assistant Prof. of Environmental Microbiology
Former Head of the Dept. of Biology
College of Science
King Khalid University
Abha 61413 Saudi Arabia
Mobile: +966 550392178
E-mail: h.alzahrany@kku.edu.sa

Eng. Amjad F. Melhem
Agricultural Engineer
Manager, Dept. of Horticulture and Crops
Al Othman Agricultural Production & Processing Co. (NADA Dairy)
Al Ahsa 31982 Saudi Arabia
Mobile: +966 505921141
E-mail: amjadm@nadadairy.com