

CURRICULUM VITAE

Dr. Khaled Suliman Elmeer

Specialisation : Plant Biotechnology and Molecular biology.
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Qualifications

- PhD in Plant Biotechnology - UCD University College Dublin, Ireland, 2004.
- MSc in Plant Breeding - Tripoli University, Libya, 1997.
- BSc in Horticulture and Agronomy Science - Garyounis University Libya, 1983.

Experience and achievements

- Assistant Professor of Plant Breeding and Biotechnology in Horticulture Department, Faculty of Agriculture, University of Tripoli (UOT).
- Assistant Professor of Plant Breeding and Biotechnology, Omar Al-Mukhtar University from 2012 to 2016. Duties include: (i) lecturing under graduate students of Genetic, Cytology, Plant breeding and Plant Genetic Improvements courses, in addition to lecturing post graduate students of DNA Molecular Markers and Genetic Engineering. (ii) Supervising a number of Masters student. (iii) Evaluating the scientific research of lecturing staff members up for promotion. (iv) Internal and external examiner for post graduate students in a number of Libyan universities.
- Published more than 30 papers in high rank journals with a total impact factor reaching 48.07 and a total of more than 315 citations.
- Head of the Genetic Engineering department in the Biotechnology Centre, Ministry of Environment, Doha Qatar from 2010 to 2012.
- Contributed in the establishment of a Biotechnology Centre in Qatar, including three laboratories and launched researches in the field of plant molecular biology from 2006 to 2012.
- Working knowledge of DNA extraction, PCR and DNA fingerprinting of many plants, including palm tree, *Prosopis cineraria*, *Prosopis juliflora* and some varieties of vegetables using several techniques such as RAPD, SSR and ISSR.
- Experience in extraction and sequencing and identification of cytochrome oxidase gene in mitochondria of *Oryx leucoryx*, *Chelonia mydas* and *Sardinella longiceps*.
- Working knowledge of several aspects of plant tissue culture including preparation of stock solutions, proliferation nutrient agar medium (NAM), Aseptic techniques, micropropagation/clonal propagation, callus induction/maintenance, subculture of adventitious shoots, rooting and plant acclimatization.
- Introduced new primers of Date Palm microsatellites which were published in "3biotech Journal" 2011, in addition to a contribution with (ICARDA) research group to discover

more than 1000 microsatellite locus in date palm which was published in the “Acta Horticulturae” journal in 2010.

- Contributed with researchers from Will Cornell University and various research centres for the genome sequencing of date palm which was published in Nature Biotechnology in 2011.
- Participated in international conferences and several training courses and workshops in the field of biotechnology including the International Centre for Genetic Engineering Biotechnology (ICGEB), in India, Ireland, UK, Oman, Qatar, Bahrain and Sri Lanka.
- Experience in statistical data analysis with at least 6 courses (Statistics, Experimental design, Economics statistics, Microeconomic analysis, Field plot technique and Advanced Experimental design).
- Certified by the department of statistics, University College Dublin in statistical/computing with SAS software.
- Head of plant production in the Sarir project, Libya from 1984 to 1988. The project contains more than 250 fields with an area of 100 hectares each, using pivot irrigation systems for crops such as wheat and sorghum.

Published researches

1. Khaled Elmeer, Mai Alghanem, Latifa Al-Latifi and Hayat Alhemairi, 2017. “Efficiency of RAPD and ISSR Markers for the Detection of Polymorphisms and Genetic Relationships in Date Palm”. *Biotechnology*: 16:19-26.
2. Khaled Elmeer, Amina Ahmed and Salah Serqiwa. 2016. “Morphological diversity of three elite date palm (*Phoenix dactylifera* L.) cultivars grown in South of Libya”. The Fourth Scientific Conference of Environment and Sustainable Development in the Arid and Semi-Arid Regions. 20-22. Nov: 85-92.
3. Khaled Elmeer, Ameena Al Malki, Imene Mattat , Elfatih Mahdi, 2016. “Morphological and Molecular Evaluation of Elite Date Palm Cultivars from Qatar”. VI International Symposium on Tropical and Subtropical Fruits 26-28. Sep. ISHS.
4. Khaled Elmeer and Mohamed Bakory, 2016. “Amplified Fragment Length Polymorphism (AFLP)”. *Al Mukhtar Journal of Sciences* Vol (31), No. (01):72-90.
5. Khaled Elmeer, Eman Abduljawad and Ebtisam Eljrary, 2016. “Investigation of EMS effect on *Vicia faba* seed germination and seedling growth under saline condition”. *Al Mukhtar Journal of Sciences* Vol (31), No. (01):1-11.
6. K. Elmeer and I. Mattat, 2015. “Genetic diversity of Qatari date palm using SSR markers”. *Genetic and Molecular Research* 14 (1):1624-1635.
7. David P. Robinson, Mohammed Y. Jaidah, Rima W. Jabado, Katie Lee-Brooks, Nehad M. Nour El-Din, Ameena A. Al Malki, Khaled Elmeer, Paul A. McCormick, Aaron C. Henderson, Simon J. Pierce and Rupert F. G. Ormond, 2013. “Whale Sharks, *Rhincodon typus*, Aggregate around Offshore Platforms in Qatari Waters of the Arabian Gulf to Feed on Fish Spawn”. *PLOS ONE*, Volume 8, Issue 3, e58255:1-10.
8. Khaled M. Suliman Elmeer, 2013. “Factors Regulating Somatic Embryogenesis in Plants”, PP: 56:81 (Somatic Embryogenesis and Gene Expression) Editors: Junaid Aslam, P. S. Srivastava and M. P. Sharma Copyright 2013, Narosa Publishing House, New Delhi.
9. T. A. Ahmed, S. A. Alsamarae, H.Z. Zaidan and K. Elmeer, 2012. “Inter-simple Sequence Repeat (ISSR) Analysis of Somaclonal Variation in Date Palm Plantlets Regenerated from Callus” *IPCBEE* Vol.(35) : 126-130.
10. K. Elmeer, A Almalki, K.A. Mohran, K.N. Al-Qahtani and M. Almarri, 2012. “DNA barcoding of *Oryx leucoryx* using the mitochondrial cytochrome C oxidase gene”. *Genetic and Molecular Research* 11 (1):539-547.
11. Khaled Elmeer and Imene Mattat, 2012. “Marker-assisted sex differentiation in date palm using simple sequence repeats”. *3Biotech* 2 (3):241-247.
12. Khaled Elmeer and Ameena Almalki, 2011. “DNA Finger Printing of *Prosopis cineraria* and *Prosopis juliflora* Using ISSR and RAPD Techniques”. *American Journal of Plant Sciences*. 2:527-534.

13. Sara Ageel and Khaled Elmeer, 2010. "Effects of Casein Hydrolysates and Glutamine on Callus and Somatic Embryogenesis of Date Palm (*Phoenix dactylifera* L.)". *New York Science Journal* 4(7):121-125.
14. Khaled Elmeer, Paul McCormick and Ameena Almalki, 2011. "Sequencing of Cytochrome C Oxidase Subunit I Gene of Mitochondrial DNA from *Chelonia mydas* in Qatar". *Journal of American Science*, 7(7):783-788.
15. Eman K Al-Dous, Binu George, Maryam E Al-Mahmoud, Moneera Y Al-Jaber, Hao Wang, Yasmeen M Salameh, Eman K Al-Azwani, Srinivasa Chaluvadi, Ana C Pontaroli, Jeremy DeBarry, Vincent Arondel, John Ohlrogge, Imad J Saie, Khaled M Suliman-Elmeer, Jeffrey L Bennetzen, Robert R Kruegger and Joel A Malek, 2011. "De novo genome sequencing and comparative genomics of the date palm (*Phoenix dactylifera*)". *Nature Biotechnology* 29(6):521-528.
16. Khaled Elmeer, Hina Sarwath, Joel Malek, Michael Baum and Aladdin Hamwiah, 2011. "New microsatellite markers for assessment of genetic diversity in date palm (*Phoenix dactylifera* L.)". *3Biotech*. 1(2):91-97.
17. Hamwiah A, Farah J, Moussally S, Al-Shamaa K, Elmeer K, Khierallah H, Udupa S, Lababidi S, Malek JA, Aaouine M, Baum M., 2010. "Development of 1000 microsatellite markers across the date palm (*Phoenix dactylifera* L.) genome". *Acta Hort* 882:269-277.
18. Ameena Al Malki and Khaled Elmeer, 2010. "Influence of auxin and cytokinin on in vitro multiplication of *Ficus Anastasia*". *African Journal of Biotechnology* Vol. 9(5), pp. 635-639.
19. Kamla Alromaihi and Khaled Elmeer, 2009. "The combined role of sucrose with IBA and NAA in rooting of date palm somatic embryos cv. Khanaizi". *Plant Tissue cult. & Biotech*. 19(2): 127-132.
20. Khaled M. Suliman Elmeer 2009. "Micropropagation of date palm (*Phoenix dactylifera*)". *Qatar University Life Science Symposium (QULSS) Date Palm Research, Biotechnology and Conservation perspectives* 15-16 December.
21. Kamla Alromaihi and Khaled Elmeer, 2009. "Influence of different media on in-vitro roots and leaves of date palm somatic embryos Cvs. Kapkap and Tharlaj". *American-Eurasian Journal of Agricultural & Environmental Sciences* 6 (1): 100-103.
22. Ameena Al Malki and Khaled Elmeer, 2009. "Effect of Medium Strength and Charcoal Combined with IBA and NAA on Root Initiation of *Ficus Anastasia*". *Academic Journal of Plant Sciences* 2 (3): 169-172.
23. Khaled M. Suliman Elmeer, Thomas F. Gallagher and Michael J. Hennerty, 2009. "RAPD-based detection of genomic instability in cucumber plants derived from somatic embryogenesis". *African Journal of Biotechnology*, Vol. 8 (14), pp. 3219-3222.
24. Khaled M. Suliman Elmeer and Michael J. Hennerty, 2008. "Observations on the combined effects of light, NAA and 2,4-D on somatic embryogenesis of cucumber (*Cucumis sativus*) hybrids". *Plant Cell Tissue and Organ Culture*, (95):381-384.
25. Khaled M. Suliman Elmeer and Michael J. Hennerty, 2007. "Genetically Stable Somatic Embryos of F1 Cucumber Hybrids". *Acta Hort.* (764) 49-56.
26. Khaled M. Suliman Elmeer and Michael J. Hennerty, 2006. "Coculturing Explants of Two Cucumbers Show that One Cultivar can Influence the Callus Output of Another". *27th International Horticultural Congress & Exhibition (IHC 2006)*:354
27. Suliman Elmeer, K.M. and M.J. Hennerty, 2004. "Inducing somatic embryogenesis in an F1 cucumber hybrid". *Res. Rep. fac. Agri-food and the environment, Univ. Coll. Dublin 2002-3*:62-64.
28. Khaled M. Suliman Elmeer and Michael J. Hennerty, 2004. "The effects of sucrose concentration and sodium chloride on callus formation and somatic embryogenesis of an F1 cucumber hybrid". *Paper abstracts Irish Plant Scientists' Association Meeting, Queen's University Belfast, 21-23 April 2004*:38.
29. Suliman, K. M. and M. J. Hennerty, 2003. "The effect of two different auxins in combination and photoperiod on the induction and maturation of somatic embryos of an F1 cucumber hybrid". *Abstracts Irish Plant Scientists Association Meeting, Trinity College, University of Dublin, 19-21 March 2003*: 16.

30. Suliman, K. M. and M. J. Hennerty, 2002. "Somatic embryogenesis of F1 cucumber hybrids". Proc. Irish Bot. Meet. National University of Ireland, Maynooth 3-5 April 2002: 9.
31. Khaled M. Suliman Elmeer and Ahmed T. Elfigih, 1997. "Induction of male flowers in gynocious cucumber (*Cucumis sativus*) by GA₃ and AgNO₃ for seed production". First life science conference. Garyounis University, Benghazi-Libya. 6-8 May 1997.

Current Researches

1. Genetic diversity and relatedness in Arabian Oryx (*Oryx leucoryx*) revealed by microsatellite DNA markers.
2. Extent and Cause of Intra-Cultivar Variability at Microsatellite Loci in a Popular Date Palm Cultivar, Khalas Across the GCC Countries.
3. Assessing Genetic Diversity of Shishi Date Palm Cultivar in Saudi Arabia and Qatar Using Microsatellite Marker.
4. Detecting Distinctive Tomato's Genotypes in Segregated Generation using Marker Assisted Selection (MAS).
5. Genetic diversity of *Artemisia herba alb* populations grown in different altitude and topography of Libyan Green Mountain.
6. Genetic fingerprint of south Libyan's date palms (*Phoenix dactylifera* L.) using molecular markers.
7. Fingerprinting of *Thymus capitatus* population polymorphisms in Libyan Green Mountain.
8. Influence of altitude and topography's variance of Green Mountain on genetic diversity and chemical composition of *Spartium junceum* L.

References to be submitted upon request