

CURRICULUM VITAE OF ALI EL-KEBLAWY

Name Ali A. M. El-Keblawy
Nationality Egyptian
Date of Birth October 30, 1961
Marital Status Married with three children
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QUALIFICATIONS:

Full Professorship	<i>Plant Ecology, January 2016</i> , Dept. Applied Biology, Faculty of Science, University of Sharjah, (according to the rules of the University of Sharjah Promotion committee)
Full Professorship	<i>Plant Ecology, April 2006</i> , Dept. Biology, Faculty of Education, Suez Canal Univ., Al-Arish, Egypt (according to the rules of the Egyptian Promotion committee)
Associate Professorship	<i>Plant Ecology, October 2003</i> , Dept. Biology, Faculty of Science, UAE University (according to the rules of the UAE University)
Associate Professorship	<i>Plant Ecology, November 2000</i> , Dept. Biology, Faculty of Education, Suez Canal Univ., Al-Arish, Egypt (according to the rules of the Egyptian Promotion committee)
Ph.D.	<i>Desert Plant Ecology, December 1994</i> Tanta University, Tanta, Egypt in a joint supervision program with University of Windsor, Canada Title: Variability among sexual phenotypes of <i>Thymelaea hirsuta</i> (L.) in the Egyptian Deserts.
M. Sc.	<i>(Desert Plant Ecology, December 1987</i> Alexandria University, Egypt Title: A study of <i>Thymelaea hirsuta</i> (L.) Endle. population in Egypt
B.Sc.	<i>Botany, May 1983</i> Tanta University, Egypt

EMPLOYMENT HISTORY:

1. FULL TIME EMPLOYMENT

Professor: January. 2016 – Jill now Dept of Applied Biology, Sharjah University, Sharjah, UAE

Associate Professor: Jan. 2011- Jan. 2016 Dept of Applied Biology, Sharjah University, Sharjah, UAE

- Director of Sharjah Seed Bank and Herbarium, Sharjah research Academy

Associate Professor: Sept. 2010 – Jan. 2011 Plant Ecology, Department of Aridland Agriculture, Faculty of Food and Agriculture, UAE University, Al-Ain, UAE

Associate Professor Oct. 2003 – Sept. 2010 Plant Ecology, Department of Biology, College of Science, UAE University, Al-Ain, UAE

Assistant Professor Plant Ecology, Department of Biology, College

<i>Feb. 1998 – Oct. 2003</i>	of Science, UAE University, Al-Ain, UAE
<i>Assistant Professor</i>	Plant Ecology, Dept. Biology, Faculty of Education, Suez Canal University, Al-Arish, Egypt.
<i>March 1994-Feb. 1998</i>	
<i>Assistant Lecturer (Instructor),</i>	Dept. Biology, Faculty of Education, Suez Canal University, Al-Arish, Egypt.
<i>Aug. 1988 - March 1994</i>	
<i>Associate Professor</i>	AlHosn University, Abu Dhabi, UAE, to teach “Natural Science” course
<i>Academic year 2005/06</i>	
<i>Assistant Professor May - June 1997</i>	Dept. Biology, Wayne State University, Detroit, MI, USA. to teach “Evolutionary Ecology” course
<i>Research Assistant 1987 – 1990</i>	Botany Dept., Faculty of Science, Alexandria University, Egypt
<i>Demonstrator</i>	Botany Dept., Faculty of Science, Alexandria University, Egypt
<i>1986 -1987</i>	

3. VISITING SCIENTIST FELLOWSHIPS

<i>Visiting Professor 2001 (June- Aug.)</i>	Dept. Biology, Univ. Windsor, Windsor, Canada.
<i>Visiting Professor 1998 (June- Aug.)</i>	Dept. Biology, Univ. Windsor, Windsor, Canada.
<i>Visiting Professor 1997 (July -Nov.)</i>	Dept. Biology, Univ. Windsor, Windsor, Canada.
<i>Visiting Professor 1997 (April- July)</i>	Dept. Biology, Wayne State University, Detroit, MI, USA
<i>Visiting Professor 1995 (June-Nov.)</i>	Dept. Biology, Univ. Windsor, Windsor, Canada.
<i>Pre-doctoral Fellowship 1993-1994</i>	Dept. Biology, Univ. Windsor, Windsor, Canada.

ACADEMIC ACTIVITIES

1. RESEARCH ACTIVITIES

1. RESEARCH INTERESTS

My major research interests are varied from the ecology of desert plant populations and communities to reproductive ecology and seed germination ecology. I am interested mainly in applying the main concepts of plant ecology in different fields of environmental sciences, such conservation of natural flora and Biodiversity, combating desertification, restoring degraded habitats, using indigenous plants as fodder and in greening the cities, weed ecology and weed control. The following are the main trends in my research:

1.1. Biodiversity and Conservation in Desert Plant Communities:

Specifically, I am working on the following topics

- Effects of grazing on plant communities and rangeland management
- Impacts of exotic plants on local flora. Specifically, I am studying life history traits of invasive to understand how we can manage them.
- Artificial Forests management and their use as a conservation sites
- Management of wildlife and livestock populations in desert ecosystems
- Impact of global changes on plant communities, especially at the high mountains

1.2. Propagation of Desert Plants

Exotic forage and landscape plants in the Gulf regions usually use large amounts of water and are less tolerant to the prevailing environmental stresses. Adoption of native plants will

reduce the amount of used fresh water. However, most of the desert plants are hard to propagate because of their seed innate dormancy. I have secured several research projects to study the whole life cycle of native plants, especially those that could be used as forage plants, ornamental plants for landscaping cities and as forest trees. In one of these projects that have been funded from Qatar Foundation with one million USAD, we studied the whole life cycle of 120 plant species native to the Arabian Peninsula. These plants included small flowering plants, small and big shrubs, grasses and trees. All the factors that might affect the domestication of these plants are well studied. For ever species, we determined the best time of seed collection, types of seed dormancy and how to break the dormancy, requirements to attain optimum seed germination, suitable conditions for seed storage, plant propagation under greenhouse and nurseries, water and fertilizer requirements during different stages of the plants' life cycle. Out of these plants, 80 species are currently growing for the last two year under an experimental site conditions in Doha, Qatar. I already tested different types of maintenance treatments to keep plants at the best conditions and shape. More than 40 publications about plant propagations have been published in international peer reviewed journals.

Provided several consultancies for propagating native plants for several companies, including Expo City, Dubai; Al Nakheel, Doha; Environmental Agency, Abu Dhabi; Al-Ain Wildlife Park and Resort; Masdar City; Pearl Garden-Dubai; Diamond Developers-Dubai; Pergula-Doha; Gulf Contracting Company-Doha; Khansaheb-Dubai; Greening the Deserts-Australia, among many other companies.

1.3. Restoration Ecology

We started a big project for restoration and combating desertification in different habitat type of Sharjah Emirates. The project is funded from both Sharjah Research Academy and University of Sharjah in collaboration with a team of researchers from Malaga University and Pyrenean Institute of Ecology (CSIC), Spain. In this project, we are using innovative technique, called "Ecological Engineer", in which we are using the native desert shrubs and trees that have the potential to facilitate the environment to other small herbs and shrubs. Growing nurse plants usually results in increasing the productivity of the degraded habitats and hence their biodiversity and stability.

1.4. Plant Reproductive Ecology

Specifically, I am working on the following topics

- Breeding System and Population Dynamics of Desert Plants
- Resource Allocation and Maternal Effects in Plants
- Impact of global warming on plant phenology and reproduction, especially at the top of the high mountains, where many of the threatened plants are facing extinction

2. Research Projects and Scholarships

1. Kareem Mosa, Ali El-Keblawy (2016 – 2018). Transcriptomics and Metabolomics analysis to Reveal Stress Related Genes, Phytohormones, and Osmolytes in Facultative Halophytes plants of the UAE. **Funded by University of Sharjah Research Office** (200,000).
2. **Ali El-Keblawy**, Inderjit, Ragan M. Callaway, Kumud Acharya and Ismail Saadoun (2016-2018). Employing congeneric and biogeographic approaches to study *Prosopis juliflora* invasion at regional and global scale. **Funded by University of Sharjah and Sharjah Research Academy** (400,000).

3. Maryam Al-Nesf, **Ali. El-Keblawy**, M Mar Trigo, Ammira S. Akil, Amjad Tuffaha, Mehdi Al-Adeli, Hassan Mobayed and Hisham A. Sattar (2016 – 2019). Aerobiological studies in Qatar and Sharjah: Toward establishment of a network for pollen analysis and Allergenicity. **Funded by Qatar Foundation, Qatar**, Grand number NPRP9-241-3-043 (AED 2,610,000)
4. **El-Keblawy A.**, A. Al-Marzouqi and B. Jobe (2012 – 2016) Ecological Studies and Seed Oil Composition of the Indigenous *Moringa peregrina*: Toward Conservation and Economic Use of UAE plants, **Funded by Emirates Foundation**, Abu Dhabi, UAE (AED160,000)
5. **El-Keblawy A** and Tamer Khafaga (2013 -2016). Assessment of Forage Productivity and Carrying Capacity of Dubai Deserts rangelands: Dubai Desert Conservation Reserve as a case study "Phase 2". **Funded by National Research Foundation**, UAE (AED 160,000).
6. **El-Keblawy A** and Hamad Alkuwari (2012-2015). Potential Native Plants for Urban Landscape of Gulf Countries: Propagation and Adaptation under Nursery and Street Conditions, **Funded by Qatar Foundation, Qatar** (AED 3,670,000)
7. **El-Keblawy A** and Tamer Khafaga (2012 -2014). Assessment of Forage Productivity and Carrying Capacity of Dubai Deserts rangelands: Dubai Desert Conservation Reserve as a case study "Phase 1". **Funded by National Research Foundation**, UAE (AED 173,000).
8. Gallacher D., **Ali El-Keblawy** and Lisa Banfield (2012-2015). Population structure, reproduction and sustainable management of the ghaf tree (*Prosopis cineraria*) in the UAE", **Funded by National Research Foundation**, UAE (AED 200,000).
9. **El-Keblawy A.** (2011) Collection of Indigenous Plants' Seed For Landscaping Museum of Islamic Arts Park in Qatar, **funded by Al Nakheel Agriculture & Trading WLL**, Doha, Qatar (2011) (QAR66,000)
10. **El-Keblawy A.** (March. 2011 – July 2011). Compiling Creation of vegetation map for the Northern Emirates. **Funded by GRM International Pty Ltd and Environmental Agency-Abu Dhabi** (AED60,000)
11. **El-Keblawy A.** (Nov. 2010 – March 2011). Compiling a vegetation key for the plants of the northern emirates of the UAE: Toward a creation of vegetation maps. **Funded by GRM International Pty Ltd and Environmental Agency-Abu Dhabi** (AED46,080)
12. **El-Keblawy A** (May 2009- May2011). Establishment of A Seed Bank in the Sharjah Academy of Scientific Research: Toward restoration of endangered rare plants" **Funded by Sharjah Academy of Scientific Research** (AED230,400)
13. **El-Keblawy A** (March –Nov. 2010). Assessing Floral Abundance and Diversity of Wadi Helo Protected Area: Towards Building a Database for Future Management", **funded by Environmental and Protected Areas Authority - Sharjah**, UAE (AED 138,000)
14. **El-Keblawy A** (Feb. 2010 –Feb 2011). Selection and Propagation of indigenous plants for Landscaping Al Saada Street, Abu Dhabi, **Funded by Environmental Agency-Abu Dhabi**, UAE (AED199,670)
15. **El-Keblawy A** (April – July 2010). Collection of Indigenous Plants' Seed For Landscaping Al-Ain Wildlife Park and Resort, **Funded by Al-Ain Wildlife Park and Resort**, Environmental Agency-Abu Dhabi, UAE (AED72,000)
16. **El-Keblawy A.**, Madduri V. Rao, A. Al-Marzouqi and S. Al Neyadi (2007-2008). A Study on the Germination Ecology and Composition of the Seeds of

- indigenous *Cyperus conglomeratus*: A sand dune binder: An individual project funded by **Scientific Research Council, UAE University** (AED 23,000)
17. **El-Keblawy A.**, T. Ksiksi and N. Fawzy (2007) Assessing Floral and Faunal Diversity in Proposed Jabal Ali Airport, Dubai: An environmental Impact Assessment consultancy funded by **Emirates Marine Environmental Group, Dubai, UAE** (AED 150,000).
 18. **El-Keblawy A.** (2006-2007). Overcoming Salinity Induced Dormancy in UAE Native Forage Grasses. An individual project funded by **Scientific Research Council, UAE University**. (AED 20,000)
 19. Ksiksi T., **A. El-Keblawy**, F. Al-Ansari and G. Alhadrami (2003 – 2006). Artificial Forests and Desert Ecosystems of the UAE: The Latest Technology for Sound Management of Wildlife and Livestock Populations”. An interdisciplinary project funded by **Scientific Research Council, UAE University**, (AED 160,000).
 20. Ksiksi T., **A. El-Keblawy** and T. Youssef (2006-2008). Assessing the Improvement of Soil Water and Nutrient Content through Incorporation of Bioresin (Nattoresin) to Hyper Arid Soils. An externally funded project funded by **Cyber Central Capital Pty. Ltd. – Japan** (AED 654,000)
 21. **El-Keblawy A.** and A. J. Dakheel (2004 – 2005). Overcoming Innate Dormancy and Determination of Germination Requirements of Economic Salt tolerant Native plants of the UAE, An individual project funded by **Scientific Research Council, University of United Arab Emirates** (AED 20,000)
 22. **El-Keblawy A.** (Summer 2002). Potentiality of using solar energy in weed control under the environment of the UAE, a project supported by **SURE (Summer Undergraduate Research Experience) program for training undergraduate students on scientific research, UAE University**.
 23. **El-Keblawy A.** (2001 -2002). Evaluation of the potentiality of using artificial forests as conservation sites for native flora of the UAE, An individual project funded by **Scientific Research Council, University of United Arab Emirates** (AED 23,000)
 24. **El-Keblawy A.** (2000 – 2001). Causes and consequences of the invasion of the exotic *Prosopis juliflora* to the environment of the UAE, An individual project funded by **Scientific Research Council, University of United Arab Emirates** (AED 30,000)
 25. **El-Keblawy A.** (1999 – 2000). Evaluation of current grazing intensities on rangelands of the UAE: Abu-Dhabi Emirate as a case study, An individual project funded by **Scientific Research Council, University of United Arab Emirates** (AED 14,000)
 26. A scholarship from University of Windsor, Windsor, Ontario, Canada for in the two months of summer of 2001
 27. A scholarship from University of Windsor, Windsor, Ontario, Canada for in the two months of summer of 1998
 28. A scholarship from University of Wayne State, Detroit, Michigan, USA for the period between April and July 1997

29. A scholarship from University of Windsor, Windsor, Ontario, Canada for in the period between July and November, 1997
30. A scholarship from University of Windsor, Windsor, Ontario, Canada for in the period between June and November 1995.
31. A scholarship from the Egyptian government to complete the “Ph D. thesis” in University of Windsor, Ontario, Canada (1993-1994)

3 PUBLICATIONS

1.3.1 Articles in peer-reviewed journals

1. Soliman, S. S., Semreen, M. H., El-Keblawy, A. A., Abdullah, A., Uppuluri, P., & Ibrahim, A. S. (2017). Assessment of herbal drugs for promising anti-Candida activity. *BMC Complementary and Alternative Medicine*, 17(1), 257
2. Gairola S., T. Mahmoud, H. Shabana and **A. El-Keblawy**, (2016). Growing knowledge about the floral diversity of United Arab Emirates: new additions and conservation through seed banking. *Tribulus* 24: 136 - 143
3. **El-Keblawy, A.** (2017). Light and temperature requirements during germination of potential perennial grasses for rehabilitation of degraded sandy Arabian Deserts. *Land Degradation & Development*. DOI: 10.1002/ldr.2700
4. **El-Keblawy, A.** (2017). Impact of Fencing and Irrigation on Species Composition and Diversity of Desert Plant Communities in the United Arab Emirates. *Land Degradation & Development* 28(4): 1354 - 1362
5. Rodriguez, C, T. Navarro and **A. El-Keblawy**. (2016). Effect of macroclimate and dune types on plant dispersal traits in the Mediterranean coastal dunes of southern Spain. *Turkish Journal of Botany* 41(2), 161-170
6. **El-Keblawy, A** and S. Gairola (2017). Dormancy Regulating Chemicals Alleviate Innate Seed Dormancy and Promote Germination of Desert Annuals. *Journal of Plant Growth Regulation*. 36(2), 300-311
7. Phondani, P. C., Arvind Bhatta, Esam Elsarraga, Yousef M., **El-Keblawy, A.** (2016). Criteria and indicator approach of global sustainability assessment system for sustainable landscaping using native plants in Qatar. *Ecological Indicators* 69: 381–389
8. Mahmoud, T., Gairola, S., Shabana, H., & **El-Keblawy, A.** (2016). Contribution to the flora of United Arab Emirates: *Glinus lotoides* L.(Molluginaceae) and *Senna occidentalis* L.(Fabaceae) two new records. *Biodiversity Journal*, 2016, 7 (2): 223–228
9. **El-Keblawy, A.**, A. Khedr and T. Khafaga (2016). Vegetation Composition and Diversity of Wadi Helo: A Case Study in Hajar Mountains. *Arid Land Research and Management*. 30(4), 389-399
10. **El-Keblawy A.**, S. Gairola and A. Bhatt (2016). Maternal Habitat Affects Germination Requirements of *Anabasis setifera*, a succulent shrub of the Arabian Deserts. *Acta Botanica Brasilica* 30: 35-40
11. **El-Keblawy A.**, S. Gairola and A. Bhatt (2016). Maternal salinity environment affects salt tolerance during germination in *Anabasis setifera*: A facultative desert halophyte. *Journal of Arid Land*. 8: 254-263
12. Gairola S., **El-Keblawy, A** and T. Mahmoud (2016). A note on the Current distribution of *Nicotiana plumbaginifolia* (Solanaceae) in the United Arab Emirates. **National Academy Science Letters**. 39(6), 461-464
13. Bhatt A, S. Gairola and **El-Keblawy A.** (2016). Seed colour affects dormancy and germination requirements in two species of *Lotus* (Fabaceae). *Revista de Biología Tropical* 64 (2): 483- 492

14. **El-Keblawy A.** T. Khafaga and T. Navarro (2016). Live and dead Shrubs and grasses have different facilitative and interfering effects on associated plants in arid Arabian deserts. *Journal of Arid Environments*, 125: 127-135
15. **El-Keblawy A.**, S. Gairola, A. Bhatt and T. Mahmoud (2016). Effects of maternal salinity on salt tolerance during germination of *Suaeda aegyptiaca*: a facultative halophyte in the Arab Gulf desert. **Plant Species Biology** 32(1), 45-53.
16. Gallacher, D and **El-Keblawy, A.** (2016). Macromorphology and recruitment of *Prosopis cineraria* in the United Arab Emirates. *Ecology, Environment and Conservation*. 22 (2): 499-504
17. Mahmoud, T., Gairola S., H. Shabana and **El-Keblawy, A.** (2015). *Sesbania bispinosa* and *Trifolium repens*, two new legume records for natural flora of the United Arab Emirates. *Biodiversity Journal*, 6 (3) 719 -722)
18. **El-Keblawy A.**, A. Bhatt and S. Gairola (2015). Storage on maternal plants affects light and temperature requirements during germination in two small seeded halophytes in the Arabian deserts. *Pakistan Journal of Botany*, 47: 1701-1708
19. Mahmoud, T., Gairola S., , and **El-Keblawy, A.** (2015). *Parthenium hysterophorus* and *Bidens pilosa*, two new records to the invasive weed flora of the United Arab Emirates. *Journal on New Biological Reports* 4(1):26 – 32.
20. Mahmoud, T., Gairola S. and **El-Keblawy, A.** (2015). Large old trees need more conservation attention: a case of *Tamarix aphylla* in the arid deserts of United Arab Emirates. *Journal of Asia-Pacific Biodiversity* 8(2), 183-185
21. **El-Keblawy, A.** and A. Khedr (2015). Population Structure and Ecological Role of *Moringa Peregrina* (Forssk.) Fiori. in the Northwestern Range Edge at Hajar Mountains. *Plant Biosystems* 149: 1-10
22. Gairola S., T. Mahmoud, A. Bhatt and **El-Keblawy, A.** (2015). *Sphaeralcea bonariensis* (Malvaceae): A newly recorded weed for the flora of United Arab Emirates. *Phytotaxa*. 213(2): 151-154.
23. **El-Keblawy A.**, A. Bhatt and S. Gairola (2015). Developing sea watered landscapes: a potential way to reduce stress on fresh water resources. *Current Science* 108(10): 1773-1774
24. **El-Keblawy, A.** and A. Bhatt (2015). Aerial seed bank affects germination behaviour of two small seeded Halophytes in the Arabian Deserts. *Journal of Arid Environments*. 115: 10-17
25. **El-Keblawy, A.**, M. Abdelfatah and A. Khedr (2015). Relationships between landforms, soil characteristics and dominant xerophytes in the hyper-arid northern United Arab Emirates. *Journal of Arid Environments* 115: 28-36
26. Gairola S., A. Bhatt and **El-Keblawy, A.** (2015). A perspective on potential use of halophytes for reclamation of salt-affected lands. *Wulfenia Journal*, 22: 88-97
27. **El-Keblawy, A.** (2014) Impact of climate change on biodiversity loss and extinction of endemic plants of arid land mountains, *Biodiversity & Endangered Species* 2 120. doi: 10.4172/2332-2543.1000120
28. Saadoun I., A. Ahmad, A. Nasir, B. Al-Joubori and A **El-Keblawy** (2014), Impacts of invasive and native *Prosopis* plants from deserts of the UAE on soil microbiota and seed germination of desert plants. *International Journal of Life Science and Medical Research* 4: 1-8
29. **El-Keblawy, A.**, A. Bhatt, S. Gairola (2014). Perianth colour affect germination behavior in the wind pollinated *Salsola rubescens* in the Arabian Deserts. **Botany** 92: 69-75
30. **El-Keblawy, A.** (2013) Effects of seed storage on germination of two succulent desert halophytes with little dormancy and transient seed bank, *Acta Ecologica Sinica* 33: 338-343
31. Gairola S., T. Mahmoud, A. Bhatt and **El-Keblawy, A.** (2013). Importance of seed banking and herbarium collections in biodiversity conservation and research: a new initiative in the United Arab, **Current Science**, 150 (8): 1048 – 1050)

32. **El-Keblawy, A.** and M. Abdelfatah (2013). Impacts of Native and Invasive Exotic *Prosopis* Congeners on Soil and Associated Flora in the Arid United Arab Emirates. *Journal of Arid Environment* 100: 1-8
33. Ksiksi T. and **El-Keblawy, A.** (2013). Floral Diversity in Desert Ecosystems: Comparing Field Sampling to Image Analyses in Assessing Species Cover. *BMC Ecology* 13(1), 22
34. **El-Keblawy, A.** (2013). Impacts of dormancy regulating chemicals on innate and salinity induced dormancy of four forage grasses native to Arabian deserts. *Grass and Forage Science* 68: 288-296
35. **El-Keblawy, A.** (2012). Impact of crop residues on seed germination of native desert plants grown as weeds. *African Journal of Biotechnology* 11: 7836-7842
36. **El-Keblawy, A.**, F. Al-Ansari and N. Al-Shamsi (2011). Effects of temperature and light on salinity tolerance during germination of the two desert glycophytic grasses *Lasiurus scindicus* and *Panicum turgidum*. *Grass and Forage Science* 66: 173-182
37. **El-Keblawy, A.**, S. S. Al Neyadi, M. V. Rao and A. Al-Marzouqi (2011). Salinity, light and temperature affect seed germination of sand dunes glycophyte *Cyprus conglomeratus* growing in the United Arab Emirates deserts. *Seed Science and Technology* 39: 364-367
38. **El-Keblawy, A.**, F. Al-Ansari and N. Al-Shamsi (2010). Impact of dormancy regulating chemicals on salinity induced dormancy in *Lasiurus scindicus* and *Panicum turgidum*: two desert glycophytic grasses. *Plant Growth Regulations* 62: 163-170
39. **El-Keblawy, A.**, T. Ksiksi and H. El Alqamy (2009). Camel grazing affects species diversity and community structure in the arid deserts of the UAE. *Journal of Arid Environments*, 73: 347-354.
40. **El-Keblawy, A.** and F. Al Hamadi (2009). Assessment of differential response of weeds to soil solarization by two methods. *Weed Biology and Management*, 9: 72- 78.
41. **El-Keblawy, A.**, Y. M. Al-Sodany, and F. A. Al-Hadad (2009). Effects of time of seed maturation on dormancy and germination requirements of *Sporobolus spicatus* (Vahl) Kunth, a native desert grass of the United Arab Emirates. *Grassland Science* 55: 11–17
42. Shaltout, K.H., Y. M. Al-Sodany, **A. El-Keblawy**, and A. M. Ahmed (2009). Effect of seed type, water regime and partial cutting on the growth performance of *Emex spinosa* (L.) Campd Egypt. **Journal of Applied Science Research**, 5: 648-661.
43. Shaltout, K.H., **A. El-Keblawy** and M. T. Mousa (2008). Vegetation Analysis of Some Desert Rangelands in United Arab Emirates. *Middle-East Journal of Scientific Research*, 3: 149-155
44. Shaltout, K.H., **A. El-Keblawy** and M. T. Mousa (2008). Evaluation of the range plants quality and palatability for camel grazing in the United Arab Emirates. *Journal of Camelid Sciences* 1: 1-13.
45. **El-Keblawy, A.**, and N. AL Shamsi (2008). Salinity, temperature and light affect seed germination of *Haloxylon salicornicum*, a common perennial shrub of the Arabian deserts. *Seed Science & Technology* 36: 679-688.
46. **El-Keblawy, A.** and F. Al Hamadi (2007). Toward sustainable development: Efficiency of soil solarization in controlling weeds, enhancing soil fertility and increasing crop yield under the UAE Environment. *GRC Environment Research Bulletin* 3: 8-11
47. **El-Keblawy, A.** and F. Al Hamadi (2007). Seed source, depth of burial and solarization duration affects the efficiency of soil solarization in control of *Portulaca oleracea* weed. *Global Journal of Environmental Research*, 1: 86-91
48. **El-Keblawy, A.** and Al-Rawai, A. (2007) Impacts of the invasive exotic *Prosopis juliflora* (Sw.) D.C. on the native flora and soils of the UAE. *Plant Ecology* 130: 23-35
49. **El-Keblawy, A.**, F. Al-Ansari, N. Hassan and N. Al-Shamsi (2007). Salinity, temperature and light affect germination of *Salsola imbricata*. *Seed Science & Technology* 35: 272 - 281.
50. Ksiksi, T., **A. El-Keblawy**, F. Al-Ansari and G. Alhadrami (2006). Artificial forests ecosystems are hotspots for plant species. *World Journal of Agricultural Sciences* 2: 358-492.

51. **El-Keblawy, A.** and A. Al-Rawai (2006). Effects of seed maturation time and dry storage on light and temperature requirements during germination in invasive *Prosopis juliflora* *Flora* 201: 135-143
52. **El-Keblawy A.**, F. Al-Ansari and A. Al-Rawai (2005). Effects of dormancy regulating chemicals on innate and salinity induced dormancy in the invasive multipurpose *Prosopis juliflora* (Sw.) DC. Shrub. *Plant Growth Regulations* 46:161-168.
53. **El-Keblawy, A** and T. Ksiksi (2005). Artificial forests as conservation sites for native flora of the UAE. *Forest Ecology and Management* 213:288-296.
54. **El-Keblawy, A** and A. Al-Rawai (2005). Effects of salinity, temperature and light on germination of invasive *Prosopis juliflora* (SW.) D.C. *Journal of Arid Environments* 61: 555-565.
55. **El-Keblawy, A.** (2004). Salinity effects on seed germination of the common desert range grass, *Panicum turgidum*?. *Seed Science and Technology* 32: 943-948.
56. **El-Keblawy, A.** (2003). Effects of artificial accelerated aging on germination behaviour of the cosmopolitan weed *Chenopodium album*: implications for weed control. *Journal of Weed Science Society of Pakistan* 9 (1-2): 125 – 134.
57. **El-Keblawy, A.** (2003) Effects of achene dimorphism on dormancy and progeny traits the two ephemerals *Hedynois cretica* (L.) Dum.-Cours. and *Crepis aspera* L. (Asteracea), *Canadian Journal of Botany* 81 (6): 550-559
58. Khedr, A., M.W. Cadotte, **A. El-Keblawy** and J. Lovett-Doust (2002). Phylogentic diversity and ecological attributes in the Egyptian flora. *Biodiversity and Conservation* 11:1089-1824
59. Gardocki, M. E. , H. Zablocki, **A. El-Keblawy** and D. C. Freeman (2000). Heterocary in *Calendula micrantha* (Asteraceae): The effect of competition and water availability of water on the performance of offespring from different fruit morphs. *Evolutionary Ecology Research* 2:701-718.
60. **El-Keblawy, A.** and F. Al-Ansari (2000). Effect of site of origin, time of seed maturation and seed age on germination behavior of *Portulaca oleracea* L. from old and new world. *Canadian Journal of Botany* **78**: 279-287.
61. **El-Keblawy, A.** and J. Lovett-Doust (1999). Maternal effects in the progeny generation in zucchini, *Cucurbita pepo* (Cucurbitaceae). *International Journal of Plant sciences* 160: 331-339.
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4. Thesis Supervision

1. **Samia Henideq Ahmed, Ph. D.**, at Suez Canal University, Egypt. **Title:** Taxonomical and ecological studies on the family *Asclebadiaceae* in Egypt. (Awarded April 2001).
2. **Mohamed Taher Mohamed Mousa, Ph. D.** at Tanta University, Egypt. **Title:** Ecological studies on some desert range plants. The student collected his data from the natural rangelands of the UAE, as he working as a Plant Ecology technician in the Biology Department, UAEU. (Awarded March 2005).
3. **Awatif Abdulleh K. Al-Rawai, M. Sc.** at UAEU. **Title:** Impacts of the alien invasive *Prosopis juliflora* (Swartz) DC. on the environments of the UAE and feasibility of using it in the afforestation of saline habitats (Awarded June 2004).
4. **Fatima Kalid Al- Hamadi, M. Sc** at UAEU. **Title:** Effects of soil solarization and on seed viability of serious weeds of crops in the UAE. (Awarded in Dec. 2006).
5. **Mohamed Yusuf Ibrahim, M. Sc.** at UAEU: **Title:** Studies on seed biology of the indigenous grass *Cenchrus ciliaris* (buffel grass): Toward Overcoming the Problems of its seed Germination. (In progress, registered in Fall 2008)
6. **Naeema Sultan Alshamisi: M. Sc.** at UAEU: **Title** Germination ecology of two indigenous range grasses *Lasiurus scindicus* and *Panicum turgidum*. (Awarded Spring 2009).
7. **Sheikha Saeed Al Neyadi. M. Sc.** at UAEU: **Title** Studying the germination ecology, salinity tolerance and oil content of the seeds of the indigenous *Cyperus conglomeratus*: A sand dunes binder (Awarded Fall 2009).
8. **Maimouna Ali Al-Alawi. M. Sc.** at UAEU: **Title** The program executive committee recommends the following committee to supervise the above mentioned thesis. (In progress, registered in Fall 2009)
9. Hatem Shabana , PhD in Malaga University: **Title:** Relationships between plant dispersal and other life history traits (Sep 2014)
10. Atyat ElNaggar, PhD in Malaga University: **Title:** osmolytes and possible Coding Genes Regulating Heat and salt Stresses in Facultative Halophytes of the Hyper-arid Environments of the UAE (Sept 2015)

11. **Naeema Sultan Alshamisi**, PhD in Malaga University: **Title:** The Role of Maternal Salinity and Phytohormones in Regulating Salinity Tolerance in *Suaeda vermiculata*: A Facultative Halophyte of the Hyper-arid Environments of the UAE (Sept 2015)

2. TEACHING

During my tenure in several universities (Fall 1995 – till now), I have taught 36 different courses (27 for undergraduate and 9 for Environmental Science Master Program students). These are as following:

No.	Institution	Title of the course	Years
1	Dept of Applied Biology, Faculty of Science, University of Sharjah	Ecology	Summer 2015 – till now
	Dept of Applied Biology, Faculty of Science, University of Sharjah	Selected topics in Biotechnology B, for MSc students	Spring 2017
2	Dept of Applied Biology, Faculty of Science, University of Sharjah	Environmental Biotechnology	Fall 2014-till now
3	Dept of Applied Biology, Faculty of Science, University of Sharjah	Seminar	Fall 2013-till now
4	Dept of Applied Biology, Faculty of Science, University of Sharjah	Biostatistics	2012-till now
5	Dept of Applied Biology, Faculty of Science, University of Sharjah	General Biology	2011-till now
6	Dept of Applied Biology, Faculty of Science, University of Sharjah	Selected topics “Plant Propagation”	2012 -till now
7	Dept of Applied Biology, Faculty of Science, University of Sharjah	Selected topics “Role of Biotechnology in Desert Development”	2011
8	Al-Hosn University, Abu Dhabi, UAE	Natural Science	Autumn 2005-2006
9	Dept. Biology, Wayne State University, Detroit, MI, USA	Evolutionary Ecology	Summer 1997
10	Dept of Aridland Agriculture, Faculty of Food and Agriculture, UAE University	Natural Resources	Spring 2010
11	Dept of Biology, UAE University	Principle of Environmental Science	2006-2010
12	Dept of Biology, UAE University	Applied Ecology	Spring 2007
13	Dept of Biology, UAE University	Plant Ecology	1998-2004
14	Dept of Biology, UAE University	Basic Ecology	1998-2010
15	Dept of Biology, UAE University	Flora and Plant Geography	1999-2001

16	Dept of Biology, UAE University	Biogeography	2000 – 2003
17	Dept of Biology, UAE University	Plant Water Relations	1998/1999
18	Dept of Biology, UAE University	Plant Biology	1998/1999, 2009
19	Dept of Biology, UAE University	Capstone “Issues in Environmental Biology”	2001 – 2010
20	Dept of Biology, UAE University	Man and Environment "General Education course"	2000 – 2006
21	Dept of Biology, UAE University	Man and Science "General Education course"	2005/2008
22	Dept of Biology, UAE University	Natural Sciences II	2000-2005
23	Dept of Biology, UAE University	Research Project	1998-2010
24	Dept of Biology, UAE University	Botany Seminar	1999-2003
25	Dept of Biology, UAE University	General Biology Seminar	1998-2010
26	Dept of Biology, UAE University	Seminar in Environmental and Ecological Biology	2001-2010
27	Faculty of Education, Suez Canal University, El-Arish, Egypt	Plant Physiology	1995-1997
	Faculty of Education, Suez Canal University, El-Arish, Egypt	General Botany	1995-1997
28	Faculty of Education, Suez Canal University, El-Arish, Egypt	Taxonomy of Flowering Plants	1995-1997
29	Faculty of Education, Suez Canal University, El-Arish, Egypt	Egyptian flora	1995-1997
30	Dept of Biology, UAE University	Environmental Science I	1998-2005
31	Dept of Biology, UAE University	Environmental Science II	1999-2002
32	Dept of Biology, UAE University	Desert Ecology	2002-2004
33	Dept of Biology, UAE University	Applied Ecology	2002-2005
34	Dept of Biology, UAE University	Plant Response to Environmental Stress	2002-2005
35	Dept of Biology, UAE University	Agricultural Waste Management	2003
36	Dept of Biology, UAE University	Selected Topics in Env. Stud	2003
	Dept of Biology, UAE University	Independent Study Env. Sc.	2007
	Dept of Biology, UAE University	Biostatistics	2006-2007

3. University Development and Community Services

3.1 Contributions to Administrative Works and committees inside and outside the University

The following are the scientific/professional organizations, associations and committees that I have been participated during my work in the UAE University:

3.1.1. Contributions to the scientific/professional organizations & associations

1. Director for Sharjah Seed Bank and Herbarium (Sharjah Research Academy)
2. Member of the National Committee of “Biodiversity and Desertification combating” with the Minister of Environment and Water decree number 345 in 2012.
3. Technical Member of the Soil Survey of the Northern Emirates (2010-2013).
4. Technical Member in Ajman Award in Agriculture for selecting the best garden, decree number 90 for the year 2012 by General Director, Municipality and Planning Department, Ajman
5. Attended meetings for the “Committee of Foreign, Planning, Petroleum and Mineral Resources, Agriculture and Fisheries” (Federal National Council) about Soil and Vegetation Protection in the UAE. The aim was to discuss federal law in genetic resources and other environmental problems the UAE before final approval.
6. Member in a committee for "Reviewing the Environmental Impact Assessments before Projects Approval in Abu Dhabi Emirate", (Decree # 1, 2007, by his Highness Shaikh Hamdan Bin Zayed, Chairman, Environmental Agency-Abu Dhabi, Jan. 2007).
7. Member in the Arabian Plant Specialist Group, Species Survival Commission of “The World Conservation Union” (2001 - current).
8. Member in the National Committee for Following Desertification Convention with the coordination of Federal Env. Agency, UAE (2002).
9. Member in Education and Environmental awareness sector for the preparation of the “National and Environmental Strategy and Environmental Action Plan”, with the coordination of the Federal Environmental Agency, UAE (2000/2001).
10. Member in the Research and Studies committee in the “Environmental Friends Society in Abu Dhabi and Al-Ain, (2000 – 2005).
11. Member in the Egyptian Botanical Society
12. Member in the Weed Science Society of Pakistan (2003)
13. Member in the Japanese Weed Science Society (2008)

3.1.2. Committees at the level of the University

1. Education Program of Secondary Schools (through the Accreditation” process of Faculty of Education) (2000/01)
2. Coordinator for Man and Science course, General Education Program (taken by students from the whole university)

3.1.3. College committees

1. Student Advising and Schedules (2000 –2006/07)
2. Practical Training (2000/01 & 2006/07)
3. Overseeing Midterm and Final Exams (2003- 07/08)
4. Peer Evaluation in Teaching (2004/2005 – till now)
5. Outcomes Assessment (2006/- till now)
6. Student Activities (2006/07- till now)
7. Evaluation of students joining M. Sc and PhD programs in College of Science

3.1.4. Academic Department committees

- 1) Biology Department Council, UAE university (1998-2006)
- 2) Student Advising , Coordinator (2003/2004), member (2001/2006)

- 3) Practical Training, Coordinator (2000/01)
- 4) Community services (1999 – 2003)
- 5) Classes and exams schedules, Coordinator, (2000/03, 04/06)
- 6) Extra Curriculum Activities (2000/01)
- 7) Scientific Research & Community Services (2003/2005)
- 8) Preparation of the department annual report (2001 & 2004)
- 9) Preparation of the department self-study report (2001/02)
- 10) Evaluation for the applicants for jobs in the department, coordinator (2001– 2003)
- 11) Preparation of development of the “Capstone” course for EEB track, Coordinator (1999/2000)
- 12) Evaluation and development of the curriculum of the department, (2000/01 & 2004)
- 13) Peer Evaluation in Teaching (2004/2006)
- 14) Reporter for the meetings of the department council (2004/05-07/08)

3.1.5- Extracurricular Activities

1. Scientific association advisor (males) (2000/01)
2. Environmental Association Advisor (females) (2006-08)

3.1.6- University Duties

- Coordinator for Man and Science course, General Education Program, which is offered for the whole university (2005 – present). The coordinator is entitled to receive the Assistant Program Chair allowance, according to the decrees of the Vice Chancellor
- Special Centre in UoS: Coordinator for "Seed Bank and Herbarium Research Laboratory"; October 2012 till now

3.2. Technical Consultations

1. Editorial board of "The Open Ecology Journal", Bentham Open Publisher.(<http://www.benthamscience.com/open/toecolj/EBM.htm>)
2. Editorial board of "Journal of Biodiversity & Endangered Species ", OMICS Group Publisher. (<http://www.esciencecentral.org/journals/biodiversity-endangered-species.php>)
3. Consultant for Abu Environmental Agency-Dhabi for selecting and propagating indigenous plants for landscaping Abu Dhabi streets (Feb 2010 – Oct 2011)
4. Participating with teams from the different Arab Country in compiling "Arab Encyclopedia of Life". This work is coordinated by the Bibliotheca Alexandrina for both United Nations and Arab League Council
5. Member in the scientific community of “King Saud University”, KSA. I reviewed several research proposals, books and proportion files for Associate and full professor degrees.
6. Consultant for Al-Nakheel Company, Qatar for providing them with seeds and technical support for the propagation of many desert native plants that could be used in urban landscaping.
7. Consultant for Al-Ain Wildlife Park and Resort for selecting and propagating indigenous plants for landscaping Al-Ain Wildlife Park and Resort (Feb 2010 – May 2011)
8. Consultant for Environmental and Protected Areas Authority - Sharjah, UAE, for building a database for future management of Wadi Al Helo Protected area (Feb 2010 – May 2011)
9. Consultant for Sharjah Academy of Science for establishment a seed bank and herbarium, in collaboration with Royal Botanical Garden (Kew), UK (May 2009 – April 2012)
10. Reviewing the "Environmental Impact Assessment" reports for Environmental Agency- Abu Dhabi (January 2007 –till now).

11. Reviewed the Vegetation Map of Abu Dhabi Emirate, which is one of the important deliverables of the Extensive Soil Survey of Abu Dhabi Emirate. The review was submitted to both International Center for BioSaline Agriculture (ICBA) and Environmental Agency Abu Dhabi (April - May 2008)
12. Prepared an "Environmental Impact Assessment" report for "the Proposed Gabel Ali Area, Dubai" (Feb 07 – October 07).
13. After a meeting with the Expert of the Sub-Regional Action Program for West Asia for the United Nations Convention for Combating Desertification (UNCCD) and Water Resources Inventory (in the Federal Environmental Agency, Abu-Dhabi) I collected the information and filled the Questionnaires required by the International Center for Agricultural Research in Dry Areas (ICARDA) and UNCCD about Water Resources and Vegetation Covers in the UAE. January 14- April 5, 2002.
14. Participated in the "Emirates Foundation Forum: Environmental Issues in the UAE" to prioritize the list of environmental issues that need fast actions in the UAE, organized by Emirates Foundation (July 18th, 2007)
15. As a member of Education and Environmental Awareness Committee (EEAC), I shared in the preparation of the report of the third (final) stage of the "National Environmental Strategy and Environmental Action Plan" prepared by Federal Environmental Agency. During about 10 meetings with EEAC I provided them with proposals for some changes and modifications in the schools and university curricula to improve the environmental awareness of the students (1999-2002).
16. Collaborating with a team from different federal governmental sectors in the UAE in the implementation of Abu Dhabi Global Environmental Data Initiative. I mainly working in the sector of Terrestrial Habitat and Land Resources (June 2005).
17. Collaborating with Environmental Agency, Abu Dhabi in a project about "compiling environmental database about Abu Dhabi Emirates" (September 2005- till now).
18. Participating with a team from different countries in GCC members in Arabian Plant Specialist Group in "Compiling Arabian Plant Database" (May 2005 – till now)
19. An official representative of the Biology Department and the University as a part of a scientific delegation preparing an environmental impact assessment on mangrove communities in Umm Al- Quwain after a major oil spill. March – June 1998.
20. Prepared a report about Suggestion of United Nations Industrial Development Organization (UNIDO) about "a project for establishment of a National Cleaner Production Centre in the UAE". April 14, 1998.
21. Provided technical support for a staff member and a student in Zayed University in the completing the student' independent research project, which was about the effects of vehicles trampling on the natural vegetation in Dubai Area. My major help was to identify the plant species in the area.
22. As a member of the active Phone consultation Service Program to teachers of Ministry of Education, I provided several consultations to the school teachers. Fall 1999 – current
23. Participated with three articles (in Arabic) in environmental magazines in the UAE:
 - a. An article entitled "Solid Wastes: From a Great Problem to Real Benefits" *In* "Environmental Affairs", published by Environmental Friends Society of Abu Dhabi (Dec. 2000).
 - b. An article entitled "The Needs of the UAE to Qualified Environmentalists" *In* "Environmental Affairs", published by Environmental Friends Society, UAE, issue 20 (Dec. 2003), PP 42-44.
 - c. A paper entitled "Impacts of protection and invasive species on plant communities in the protected areas", *In* "Emirates and Environment Journal", published by Federal Environmental Agency, Abu Dhabi, UAE (volume 10, 2004) Pp: 42- 45

24. Organized and delivered a course entitled "**Aerobiology and Applied Palynology**" with the cooperation of University of Malaga for Applied Biology Department students and others. Students participated in the course got "An European Accredited Diploma from University of Malaga in addition to another certificate from University of Sharjah (27-30 April 2015)
25. Delivered a training program entitled "Marine and Terrestrial Biodiversity" for Environmental rangers and EIA officers of Environmental Agency- Abu Dhabi (28-29 Dec 2014)
26. I did several interviews with local TV channels and newspapers.
27. Reviewed several research projects for NRF, UAE, King Saud University, Saudi Arabia, Kuwait Foundation for the Advancement of Sciences, Kuwait, National Research Foundation of South Africa (NRF)"

3.3. Refereeing Research Papers

I am a reviewer for the following journals:

1. Plant and Soil
2. Journal of Arid Environments
3. Journal of Forestry Research, Springer
4. Applied and environmental Soil Sciences
5. International Journal of Plant Production
6. African Journal of Biotechnology
7. Saudi Journal of Biological Sciences
8. Biofuels
9. Journal of Saudi Society of Agricultural Science
10. Acta Agriculturae Scandinavica
11. Acta Botanica Croatica
12. Journal of Arid Environment, Elsevier
13. International Journal of Intergrative Biology
14. Acta Botanica Croatica,
15. Acta Horticulture scandinavica, Wily-Blackwell
16. Grassland Science, Wily-Blackwell
17. Ecoscience (published by Université Laval, Québec, Canada),
18. Journal of Economic & Administrative Science, published by Faculty of Food and Agriculture, UAEU
19. Biodiversity and Conservation, Kluwer Academic Publishers B.V.
20. Sexual Plant Reproduction, Springer
21. Plant Biosystems, published by Taylor & Francis
22. International Journal of Scientific Research, published by UAE University
23. South African Journal of Botany, published by Elsevier
24. Botanical Studies, published by Academia Sinica, Taipei, Taiwan
25. Flora, published by Elsevier
26. Ecological Research, Springer
27. Pharmaceutical Biology, Taylor and Francis Ltd logo. Publisher
28. *Journal of Biodiversity & Endangered Species*
29. *Australian Journal of Botany*
30. *Environmental Management*
31. *Pakistan Journal of Botany*
32. *Plant Species Biology*

3.4. Participation in Conferences and Events Organization

- Participating in the organization committee of organizing "*The First International Conference on the State of Gulf Ecosystem: Future and Threats*" (5-7 March, 2006)
- Participated in the organization committee of organizing "*The First -fourth Biology Day*" Organized by the Biology Dept, UAEU
- Participated in the organization committee of organizing "*2nd Biotechnology Exhibition* " Organized by the Applied Biology Dept, Sharjah University
- Participated in the organization committee of organizing "*3rd Biotechnology Exhibition* " Organized by the Applied Biology Dept, Sharjah University
- Participated in the organization committee of organizing "*4th Biotechnology Exhibition* " Organized by the Applied Biology Dept, Sharjah University
- Participated in the organization committee of organizing "*5th Biotechnology Exhibition* " Organized by the Applied Biology Dept, Sharjah University
- Participated in the organization committee **Second International Conference on Arabs' and Muslims' History of Sciences**" Date: Dec 8-11, 2014
- Participated in the UOS Open Day Activities", Date: February 2-7 2015
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3.5. Attended Training

- Attended an International Training on the Herbarium and Seed Conservation in the Royal Botanical Garden, Kew, from June 4th to June 15th 2012

Reference persons,

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