Biotechnology research center
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Elmundr A.H Abughnia

Associate Professor

Personal Information

Marital status: married with four children

Nationality: Libyan

Date of birth: February 19, 1972

Passport number PF7YL74C

Beginning of work 2001- Present

Current position: Head of Plant Tissue Department at Biotechnology Research Center since 2001-2020.

Education

Bachelor's degree

1992-1997 Department of pasture and forests / Agriculture college /University of Tripoli bachelor of Agriculture.

Master's degree

Title: Microscopic and Isolation study to Rhizobium Bacteria from *Acacia cyanophylla* Root Nodules Grown in Libya

Under supervisor : Prof. Samir Towfeeq

2010-2016 Division of Botany/ Department of Biological / Sciences/ School of Basic Sciences/ Libyan Academy/ Tripoli – Libya

Title: Micropropagation and *in Vitro* Conservation of (*Bupleurum fruticosum* L.)

Under Supervision of:

Prof. Abdul Karim G. Taeb [a] (1st supervisor)

Dr. Moftah M. Dow [a] (2nd supervisor)

Languages Arabic / English

Cooperation with universities

- Collaborator with the Faculty of Biotechnology, University of Jafara, as a faculty member.
- Collaborator with the Faculty of Al-Marqab University

training courses

- **Training course in Radiation protection in 2001.**
- **Training course of plant tissue culture in 2001.**
- **Training course of English language teaching in 2002 in UK (Oxford) for 6 months.**
- **the use of genetic engineering techniques for improving the production of plants CAIRO, EGYPT.**
- **interregional trining course on "mutant germplasm characterisation using molecular markers" held at the FAO/IAEA Agriculture & biotechnology laboratory seibersdorf, Vienna Austria. 15 May to 16 june 2006.**
- **Study for three months in the Department of Biotechnology at University of Hannover, Germany in 2009**
- **The first training session in design of scientific experiments and data analysis. August 2013 Biotechnology Research Center Tripoli - Libya.**
- **Training course of extraction genetic material of plant and use PCR September 2013.**
- **Participant in the first scientific meeting of the international scientific advisory board (ISAB) of the biotechnology research center (BTRC). In the framework of the UNESCO project Enhancing capacity of the BTRC. 30-31 August 2016 Tunis, Tunisia.**

. Regional (AFRA) Training Course on Improving Resilience to Drought through Mutation Breeding, Tsumeb, Namibia, 24-28 April 2017.

Work experience

2001-Present Biotechnology research center Tripoli / Libya.

I'm working on:

- **-Micropropagation of potato, ornamental plants, barley, Libyan scarce native wild plants.**
- **Micropropagation of the Libyan wild plants with medicinal value and endangered.**
- **Micropropagation of trees and plants with medicinal and economic value.**
- **Micropropagation of ornamental plants.**
- **Micropropagation of potato tubers.**
- **Scientific visits to presence of plants and brought them and conduct scientific experiments for purpose of breeding and conservation laboratory.**
- **Analyzed More Than 620000 COVID-19 Test Using RT-PCR RT-PCR, PCR, DNA & RNA Extraction**

. Training Student from Different Parts of Libya on Real-time-PCR for COVID-19 Diagnosis

Speaker In International Scientific Advisory Board

The first scientific meeting of the internation scientific advisory board (ISAB)of the biotechnology research center (BTRC)
In the framework of the UNESCO project "Enhancing Capacity of the BTRC"
30-31 Augst 2016

	The name of the paper published	Conference Name	The type of work	Date
1	the evaluation of five mutation of(Hordeum vulgare) under drought conditions	Second National Conference of the biotechnology	Research	2003/8/6-4 Libya - Albida
2	the effect of growth regulators on the growth and rooting of African voilet	Third National Conference of the biotechnology	Research	2005/3/14-12 libya- Sabha
3	the effect of adding defferent concentrations of chloride (Na cl)on the growth of garlic tissues	Third National Conference of the biotechnology	Research	2005/3/14-12 libya- Sabha
4	Economic olive production	First Conference of the olive tree	Research	2006/2/2 Libya- Bnioled
5	growth and cales tissues in *Haplophylloum tuberculatum* *(fosrk) juss of culture tissues.*	Fourth National Conference of the biotechnology	Research	23 2007/4/ Libya- Benghazi
6	effect of soaking time and the addition of BA mermon on microtuber in punta potatoes speces by using temporary soaking system.	Fourth National Conference of the biotechnology	Research	23 2007/4/ Libya- Benghazi
7	effect of soaking time and addition NAA+BA and BA hermon on the tissue growth of the *Grevilla robusta*.	Fourth National Conference of the biotechnology	Research	23 2007/4/ Libya- Benghazi
8	effect of addition of 2.4D hermon and the light on calluse Carrote production.	Fourth National Conference of the biotechnology	Research	2007/4/23 Libya- Benghazi
9	effect of soaking time and the addition of K mermon on microtuber in Liseta potatoes speces by using temporary soaking system.	Fourth National Conference of the biotechnology	Research	2007/4/23 Libya- Benghazi
10	growth and cales tissues in *Capparis spinosa L* of culture tissues.	fifth National Conference of the biotechnology	Research	2009/4/23 Libya- Sabratha
11	Study the response of plant *Arbutus pavarii* tissue culture	fifth National Conference of the biotechnology	Research	2009/4/23 Libya- Sabratha
12	Micropropagation of the plant *Adiantum Capillus* using Spores	fifth National Conference of the biotechnology	Research	2009/4/23 Libya- Sabratha

13	The use of technology in the reproduction of plant tissue and reveal the callus and see the effect of some growth regulators for plant breeding *Capparis spinose* L.	Conference wild plants emerging economic crops	Research	Fas - the Kingdom of Morocco 26-27/10/2009
14	The use of technology in the plant tissue revealed callus tissue as a means for the propagation of plants, *Haplophyllum tuberculatum*	Conference wild plants emerging economic crops	Research	Fas - the Kingdom of Morocco 26-27/10/2009
15	Micropropagation of *Capparis spinosa* L. Using Two Hormones BA and 2ip	6th International . Plant Tissue Culture &Biotechnology Conference	Research	Dhaka university, Bangladesh from December 3 -5, 2010

16	The using tissue culture techniques in plant breeding and reproduction callus tissue in plant Haplophyllum tuberculatum (Forsk) juss	The first International Biotechnology Innovation Conference	Research	Cairo, Egypt from November 21st to 23rd, 2010
17	Micro propagation of *Capparis spinosa* L. by using three hormones 2-4 D, BA and 2ip	the ICABBBE 2011 : International Conference on Agricultural Biosystems Biotechnology , and Biological Engineering	Research	Venice, Italy during April 27-29, 2011.
18	The effect of hormones (K, BA and IAA) on the growth of plant tissues *Cordyline fruticosa*	6th National Conference of the biotechnology	Research	21-23 April 2013 Libya - Misratah
19	Effect of hormones (NAA and IBA) and activated charcoal for *Lavandula multifida* using plant tissue culture	6th National Conference of the biotechnology	Research	21-23 April 2013 Libya - Misratah
20	The effect of growth regulators benzyl adenine (BA), kinetin (K) and Zeatine(Z) for response *Ruta montons* L by plant tissue culture	6th National Conference of the biotechnology	Research	21-23 April 2013 Libya - Misratah
21	Production Microtubers of potato var. Spunta free virus using meristem tip culture	6th National Conference of the biotechnology	Research	21-23 April 2013 Libya - Misratah
22	Effect of immersion time and growth regulator BA composition of microtubers in potato vir. Voyager using temporary immersion system	6th National Conference of the biotechnology	Research	21-23 April 2013 Libya - Misratah
23	Effect of solidified media material (Agar, Agarose and Phytagel) used in plant tissue culture on the growth of plant tissues (*Balanites aegyptiaca)* and *(Capparis spinosa)*	6th National Conference of the biotechnology	Research	21-23 April 2013 Libya - Misratah
24	Using plant tissue culture technology in the development , propagation and Acclimatization of neem tree (*Azadirachta indica* A. Juss.)	6th National Conference of the biotechnology	Research	21-23 April 2013 Libya - Misratah
25	Effect of medium type and hormones on the single node growth of plant tissue *Capparis spinosa* L.	6th National Conference of the biotechnology	Research	21-23 April 2013 Libya - Misratah
26	In vitro evaluation of salinity tolerance of potato (Solanum tuberosum var. Spunta)	Journal of Libyan to search, science and basic and applied	Research	Tripoli – Libya 2015
27	Cytological and biochemical assessment of somatic embryogenesis and cell suspensions of *Medicago truncatula* after long-term exposure to salt stress	international conference as organized by Global plant council collaborated	Research	Brasilia- Brazil 2015
28	Micropropagation of medical plants *Haplophyllum tuberculatum*(forsk) joss and *Capparis spinose* L. via reproduction callus in vitro culture	6th international congress on medicinal and Aromatic plants	Research	Coimbra / Portugal 2016

29	*In vitro* propagation of the wild medicinal plant, caper (*Capparis spinosa* L.)	African Journal of Biotechnology	Research	Received 26 October, 2016; Accepted 30 March, 2017
30	*In vitro* plant regeneration of Libyan wild plants: Edible species (*Arbutus pavarii*) and endanger species (*Haplophyllum tuberculatum*.	INTERNATIONAL SYMPOSIUM ON BIODIVERSITY AND EDIBLE WILD SPECIES BEWS2017	Research	3-5 April 2017, Antalya, TURKEY (O22). 51.
31	*In vitro* plant regeneration of Libyan wild plants: Edible species (*Arbutus pavarii*) and endanger species (*Haplophyllum tuberculatum*	JOURNAL OF AEGEAN AGRICULTURAL RESEARCH INSTITUTE	Research	TURKEY 2017
32	Effect of adding different levels of sodium chloride in MS medium on growth and development of potato (spunta and Aranda) using plant tissue culture technique	Conference Scientific Research and Sustainable Development 25-27/12/2017	Research	Benghazi- Libya 2017
33	Micropropagation and plant conservation of (*Bupleurum fruticosum*)	Conference Scientific Research and Sustainable Development 25-27/12/2017	Research	Benghazi- Libya 2017
34	Micropropagation of *Paulownia elongata* tree	Conference Scientific Research and Sustainable Development 25-27/12/2017	Research	Benghazi- Libya 2017
35	Produce Mutant first generation of barley for (176 acsad.)using gamma rays	Conference Scientific Research and Sustainable Development 25-27/12/2017	Research	Benghazi- Libya 2017
36	Effect Immersion Time and Addition of Kin Hormone to Microtubers in Potato vir Spunta Using Temporary Immersion system	Conference Scientific Research and Sustainable Development 25-27/12/2017	Research	Benghazi- Libya 2017
37	Evaluation of the of some barley induced lines using gamma rays for drought SERKs family genes and yield tolerance.	FAO/IAEA International Symposium on Plant Mutation Breeding and Biotechnology, 27-31 August 2018 IAEA, Vienna. DI:45	Research	August 2018 IAEA, Vienna. DI:45
38	SERKs Genes Expression analysis in Barley Embryos of mutant induced by gamma radiation	14th Arab Conference on the Peaceful Uses of Atomic Ener Sharm El-Sheikh, Arab Repub of Egypt, 16 - 20 December 2018	Research	Egypt, 16 - 20 December 2018
39	Effect of immersion time and kinetin growth regulator on micro tuber formation for Spunta potato variety through RITA system	The Third Food Security Symposium, Reality and Challenges	Research	University of Tripoli 15-October 2019
40	Micropropagation of Zingiber officinal roscoe	Journal of Misurata university for agriculture Sciences	Research	Misurata 06-October 2019
41	Effect of light specters (red and blue) on two-potato varieties tissue (spunta and	Journal of Misurata university for agriculture Sciences	Research	Misurata 06-October 2019

	Agria)			
42	In vitro study the effect of salinity stress on two citrus rootstock growth (Citrus Aruntium), (Cleopatra Mandarin)	Journal of Misurata university for agriculture Sciences	Research	Misurata 06-October 2019
43	Effect of adding growth regulators benzyl adenine (BA) and kinetin (Kin) on production of potato (spunta) micro tuber	Journal of Misurata university for agriculture Sciences	Research	Misurata 06-October 2019
44	Evaluation of salt oversensitivity (SOS) genes and agronomic traits of some mutant lines induces salinity tolerance in barley *via* gamma ray.	The fifteenth conference on th peaceful uses of atomic energ Cairo, Egypt 20-24/12/2020	Research	Cairo, Egypt 20-24/12/2020
45	Micropropagation of *Capparis spinosa* through plant tissue culture technology	Journal of Misurata university for agriculture Sciences	Research	Journal of Misurata university of agriculture sciences Des 2020
45	Micropropagation of *Adiantum Capillu*s plant through culture of plant spores	Journal of Misurata university for agriculture Sciences	Research	Journal of Misurata university of agriculture sciences Des 2020
46	Travel during COVID-19 pandemic in Libya: reasons of travel, disease importation and travel regulations	Libyan Journal of Medicin	Research	Published online: 25 Oct 2021.
47	**Effect of red and blue spectrum on two potato cultivars Spunta and Agria using tissue culture**	The annual conference on theories and application of basic and bioscience	Research	Biology department, Faculty of Science, elmergib University, Al Khums, Libya 4 September 2021