

Curriculum Vitae

**University of Duhok
Faculty of Science
Scientific Research Center**



- **Gharbia Hrmiz Danial Hrmiz**
- **Date of Employment:** 28/ 12/ 2005
- **Marital Status:** Single
- **Nationality:** Iraqi
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● **Degrees:**

- 1- M.Sc. (Biology / Botany) / Department of Biology / College of Education / University of Mosul. 2002.
- 2- B.Sc. (Biology) / Department of Biology / College of Education / University of Mosul. 1997

● **Title of M.Sc. Thesis**

Role of Temperature and some Protein Synthesis Inhibitors in Cold Tolerance of Wheat (*Triticum aestivum* L.)

● **Specialization:**

- Biotechnology.
- Plant tissue culture

Present job:

- 1- Researcher in the Scientific Researcher Center / Plant Tissue Culture Research Lab. / Faculty of Science / University of Duhok.
- 2- Teaching a theoretical course " Plant Physiology " for 4th year students in the Department of Biology / Faculty of Science / University of Zakho . (2015- 2016).
- 3- Supervision of practical Plant Physiology course for 4th year students in the Department of Biology / Faculty of Science / University of Zakho. (2015- 2016).
- 4- Ph.D. student in the Department of Biology / Faculty of Science / University of Zakho.

● **Previous jobs:**

- 1- Lecturer and scientific researcher in Plant Tissue Culture Research Lab. / Scientific Research Center University of Duhok since 2006 till now.

- 2- I taught the following courses whether through teaching theoretical courses or supervision the practical part of the courses.

A- Theoretical :

- 1- Plant Physiology to 4th year students in the Department of Biology\ College of Education / University of Zakho. (2010- 2011), (2011-2012), (2012-2013), (2013-2014) ,(2014-2015).
- 2- Theoretical lecture in Plant Taxonomy to 2nd year students in the Department of Biology / Faculty of Science / University of Duhok. (2011-2012).
- 3- Plant Taxonomy to 3^{ed} year students in the Faculty of Science/ Biology Department/ University of Duhok. (2013-2014).
- 4- Plant Taxonomy to 2nd year students in the Faculty of Agriculture and Forestry/ Protection Department/ University of Duhok. (2013-2014).

B- Practical :

- 1- General Botany to 1st year students in the Department of Biology / College of Education / University of Duhok. (2005-2006), (2006-2007).
- 2- Plant Taxonomy to 2nd year students in the College of Education / University of Zakho. (2006-2007),(2007-2008),(2008-2009),(2009-2010),(2010-2011).
- 3- Plant Physiology to 4th year students in the College of Education / University of Zakho . (2008-2009), (2009-2010).
- 4- Plant Anatomy and Taxonomy to 2nd year students in the College of Science / University of Duhok. (2008-2009), (2009-2010),(2010-2011),(2011-2012).
- 5- Plant Physiology to 4th year students in the College of Science / University of Duhok. (2009-2010),(2010-2011), (2011-2012), (2012-2013),(2013-2014).
- 5- Plant Taxonomy to 3rd year students in the Faculty of Science/ University of Duhok. (2013-214).

Practical experience :

- 1- Plant Tissue culture (especially in micropropagation, callus induction, organogenesis and plant breeding).
- 2- Physiological studies in different disciplines of plant physiology aspects such as salinity.

Referres:

- 1- Prof. Dr. Jaladet M. S. Jubrail Chairman of Scientific Research Center / University of Duhok / Iraq.
- 2- Prof. Dr. Sami R. Al Zubady / Department of Biology / Faculty of Science / University of Duhok / Iraq.
- 3- Assist. Prof. Dr. Diaa A. Ebrahim / Faculty of Sciences / Scientific Research Center University of Duhok / Iraq.

• Workshops and Training

- 1- Participated in the **"SRC research plan workshop"** (24th – 25th April 2012)
Scientific Research Center / Faculty of Science / University of Duhok / Iraq.
 - 2- Participated in the workshop **"Structure elucidation of natural products by ¹H,¹³CNMR, DEPT90⁰, DEPT135⁰, COSY, HMBC, NOESY utilizing delta Jeol programme"**(25th - 29th February 2012) Department of Chemistry/Faculty of Science/University of Duhok / Iraq.
 - 3- Participated in the workshop **" The Iraq University Linkage Program: Collaborations in Higher Education between Michigan State University and University of Duhok Project. (March 12 – 29, 2013)** In Curriculum, Teaching and Learning.
 - 4- Participated in the **"SRC research plan workshop"** (21th – 22th April 2012)
Scientific Research Center / Faculty of Science / University of Duhok / Iraq.
 - 5- Participated in the workshop **" Easy thesis and papers writing with End Note×4 program"** (April 14th – 15th, 2013) . Department of Chemistry/Faculty of Science/University of Duhok / Iraq.
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- 1- Training in **Gas Chromatographic(HC-MS)**. Amman (March 20-24th , 2011).
 - 2- Training in **Liquid Chromatographic (HPLC)**. Beirut (May-June 31-2nd , 2011).
 - 3- Training in **DNA Molecular Techniques for Crop Improvement (ICARDA) Syria** .
Nov 8-19th , 2009.
 - 6- Training in **plant tissue culture and its application in plant propagation** (June 23-25th , 2007) Scientific Research Center /University of Duhok.
 - 7- Training in **plant tissue culture and its application in plant propagation** (September 22-25th , 2008) Scientific Research Center /University of Duhok.

• Conferences

- 1- Participated in the **"1st International Scientific Conference University of Zakho"**(April 23rd – 25th, 2013). Faculty of Science / University of Zakho / Duhok / Iraq and presenting A paper entitled (*In vitro* rooting of hybrid rose (*Rosa Carolina*) shoots and subsequent establishment).
- 2- Participated in the **" 1st International scientific Agricultural Conference in University of Sulaimani " 20 – 21 November 2013**. Faculty of Agriculture / University of Sulaimani and

presenting a paper entitled (*In vitro* Drought Tolerant of Rootstock Apple (*Malus domestica* Borkh.) and Pear).

- 3- Participated in the "**4th Kurdistan conference on biological sciences**" (May 8th -10th, 2012) Faculty of Science / University of Duhok / Iraq.
- 4- Participated in the "**1st Scientific Agricultural Conference**" (Apr 10-12th, 2012) / Faculty of Agriculture / University of Duhok and presenting a paper entitled (. *In vitro* Mass Production of Ginger (*Zingiber officinale* Rosc.) From a Single Bud Explant as Affected by Kinetin and Benzyle Adenine).
- 5- Participated in the "**3rd Kurdistan conference on biological sciences**" (May 4th - 6th, 2010)/ Scientific Research Center/ University of Duhok/Iraq and presenting a paper entitled (Developing *in vitro* propagation protocol for spider plant (*Chlorophytum comosum*)).
- 6- Participated in the "**2nd Kurdistan Conference of Biological Sciences**" (May 6-8th, 2008) University of Duhok / Iraq and presenting a paper entitled (Clonal propagation of *Dianthus caryophyllous* through tissue culture).
- 7- Participated in the "**2nd Arab Seminar on Biotechnology**" (May 22-25th, 2007) Amman / Jordan. and presenting a paper entitled (The role of plant tissue culture in agricultural development and rehabilitation of orchards and forests).
- 8- Participated in the "**1st conference on Biology Sciences**".(September 4-5th, 2007) University of Mosul / College of Education / Iraq and presenting a paper entitled (Use of interaction between cyclohexamide and chloramphenicol, temperature and treatment time in raising tolerance of wheat to freezing).

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● **Published papers:**

- Danial, G. H. and M .A. Sadiq. 2004. The possibility of using cycloheximide to increase low temperature tolerance of wheat plants and its effect on yield components. Al. Rafideen Science J.15 , No. 5, 54-66.
- Danial, G. H. and M .A. Sadiq . 2003. The effects of cycloheximide period to cold and freezing tolerance of wheat. Education and Science J. Vol. 15, No. 2.120-139.
- Sadiq, M.A. and G.H. Danial . 2004. The effects of cycloheximide period in cold tolerance and freezing of wheat plants and some phenotypic characters. Education and Science J. 16, No. 4.70-89.
- Sadiq, M.A. and G.H. Danial. 2007. Use of a mixture of cyclomeximide and chloramphenicol to elevate the tolerance of wheat (*Triticum aestivum* L.) plants to cold and freezing. Education and Science J. 20, No. 2. 287-297.

- Danial, G. H. and M .A. Sadiq. 2008. Use of interaction between cyclohexamide and chloramphenicol, temperature and treatment time in raising tolerance of wheat to freezing. Education and Science J. 21, No.4. 62-76.
- Danial, G. H.; Yousif, A.N. and M. S. Omar. 2008. Clonal propagation of *Dianthus caryophyllous* through tissue culture. Proc. 2nd Kurdistan Conf. Biol. Sci. May 6-8,2008. Vol.12. No 1. 91-95.
- M. S. Omar ; G. H. Danial, and A. N. Yousif. 2007 . The role of plant tissue culture in agricultural development and rehabilitation of orchards and forests. The 2nd Arab Seminar on Biotechnology. Amman, Jordan. May 22-25, 2007.
- G.H.Danial .2009 . Propagation of *Myrtus communis* L .*In vitro* . J. of Duhok University 12, No 1. 80-83
- M.S. Omar ; G.H. Danial , and A.A. Sulyman.2009. *In vitro* Shoot Tips Cultures of *Vitis vinifera* L. J. of Duhok University , 12 ,No 2. 172-179.
- S.H.Ali; A.M.Ali and G.H. Danial. 2009. Genetic stability assessment in a number of *in vitro* propagated grape cultivars using RAPD-PCR markers. J. of Duhok University ,12 ,No 2. 208-212.
- G.H. Danial ; M.S.Omar and R.S.Toma. 2010.Developing *in vitro* propagation protocol for spider plant (*Chlorophytum comosum*) J. of Duhok University ,13,No 1.(Special Issue).
- R.S.Toma and G.H. Danial .2010. Effect of medium consistency and different growth regulators on Boston fern (*Nephrolepis exaltata*) micropropagation. Inter. J. for Sciences & Technology , 5 ,No 4. 6-12.
- G.H. Danial.2012.The effect of increasing concentration of copper and myo- inisitol in *in vitro* morphogenic response of grap (*Vitis vinifera* L.) J. of Al . Rafideen Science J. ,23 No 2. 36-43
- R.S.Toma; G.H. Danial and R.H. Rashud.2012. *In vitro* Mass Production of Ginger (*Zingiber officinale* Rosc.) from a Single Bud Explant as Affected by Kinetin and Benzyle Adenine.1st Scientific Agricultural Conference / Faculty of Agriculture/ University of Duhok / (April 10-12th , 2012).Vol.15,(1): 423-428.
- R.S.Toma; G.H. Danial and A.N. Habash . 2012. *Iv vitro* morphogenic response of apple (*Malus domestica* Borkh.) and pear (*Pyrus communis* L.) to the elevated levels of copper and myo-inositol. ACTA Agrobotanic Vol. 65(3):43-48.
- G.H. Danial and M.S. Omer. 2013. In vitro rooting hybrid rose (*Rosa carolina*) shoots and subsequent establishment. Accepted to published in J. of Zakho University.
- G.H. Danial , D. A. Ibrahim , B. M. Khalil and V. M. Musa 2014.*Iv vitro* drought tolerant of rootstock Apple (*Malus domestica* Borkh.) and pear (*Pyrus calleryana*). Journal of Zankoy Sulaimani- Part A, Special Issue, Vol. 16 .
- G. H. Danial , D. A. Ibrahim , S. E. Brkat and B. M. Khalil 2014.Multiple Shoots Production from Shoot Tips of Fig Tree (*Ficus carica*) and Callus Induction from Leaf segments. Internatinal Journal of Pure and Applied Science and Technology in 20(1):117-124.
- Daa A. Ibrahim^{1*}, Gharbia H. Danial¹, Vian M. Mosa¹ and Belan M. Khalil. 2015. Plant Regeneration from Shoot Tips-derived Callus of Ginger (*Zingiber officinale* Rosc.) American Journal of Experimental Agriculture 7(1): 55-61.
- Daa A. Ibrahim, Gharbia H. Danial , Laylan H. Fadldeen, and Sazan A. Barkat. 2016 Effect of Growth Regulators and Sucrose on *in vitro* Plantlets Establishment of Sweet Potato (*Ipomoea batatas* L.) Journal of University of Duhok. Accepted for publishing in 19(1).