

# Curriculum Vitae



**Name:** Prof. Khaled Ahmed Jafer Tarawneh.  
**Title:** Professor of Molecular Biology  
**Date of Birth:** October 2, 1949. Huseinyeh. (KARAK)  
**Nationality status:** Married (5 daughters and 1 son).  
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## Degrees:

- PH.D. Molecular biology, New York State University, Buffalo, 1989.
- M.A. Molecular biology, New York State University, Buffalo, 1988.
- Maitrise de biologie des organismes, Besancon University, 1983. (France).
- Licence en science (Biologie), Besancon University, 1975. (France).

## Languages :

- Arabic (Native)
- English (Excellent)
- French (Excellent)

## Areas of Interest:

- Regulation of eukaryotic gene expression.
- Translation of biology books from English to Arabic.
- Engineering of fungus expression vectors to use them in Biotechnology.

### **Current Position:**

- **Prof. in biological science department in Mutah university until now**

### **Previous Positions held:**

- Al-Hussein University President Consultant for scientific affairs.
- Vice President for academic affairs at mutah University from 2/9/2001 until 2/9/2004.
- Dean of the faculty of medicine, Chairman of medical council.
- Dean of Faculty of Science/ Mu'tah University since 1/1/2000 until 2/9/2001.
- Dean of Agriculture Faculty / Mu'tah University from 1/7/ 1997 - 1/7/1999.
- Chairman of Biology Department / Mu'tah University in 1996/97.
- Chairman of Chemistry / physics Department / Suhar / Sultanate of Oman in 1995/1996 .
- Acting Dean of Science Faculty from 4/7/1992 - 10/7/1992.
- Assistant professor. Department of biological sciences, Mu'tah University, Jordan from 1/6/1989 - 1/6/1994.
- Deputy Dean of the faculty of Science / Mu'tah University , Jordan from 17/6/1991 -17/6/1994 .
- Chairman of biology Department from 8/7/1991 - 20/7/1991.
- Coordinator of biology section, Department of Natural Sciences. Mu'tah University, (1990).
- Teaching Assistant. Teaching evolutionary biology lab. Establishing biology lab. Biochemistry lab, basic biology lab at State University of New York at Buffalo.
- Teacher of biology in high school from 1975 - 1981, KARAK, Jordan.

### **Council, Committee memberships and other academic responsibilities:**

- Faculty of Science Council from 1991 - 1994 and 96-97.
- Editorial Board of Mu'tah Journal for Research and Studies, Natural and Applied Sciences Series.
- Biology B. A. course plan.
- Public Safety Committee (Chairman)
- Several Other Committees Concerning Research Laboratories, Employee's Faculty Members, Conferences.
- Chairman Of Medicine Faculty Foundation Committee.
- In addition to memberships of 39 committee at Mu'tah University

### **Conferences Chaired or Attended:**

- Biology Symposium held at Mu'tah University, 1990.
- Environment Pollution Symposium held at Mu'tah University, 1991.
- Conference on the Human Genome held at Fes-Moroc, 1991.
- The Second European Conference on Fungal Genetics held during the period 28/4/1994-1/5/1994.
- Conference on Biotechnology held at Al-Albait University, 1997.
- National Agriculture Conference held during the period 16-17/6/1998.
- Fourth Biological Sciences Conference held at Jordan University, 1997.
- First Environmental Problems Conference held at Mu'tah University during the period 14-16/4/1998. (Chairman).
- Symposium on cloning / Mu'tah University, 1996. (Chairman).
- Symposium on AIDS / Mu'tah University. 2000.
- Symposium on development of high school education in Jordan 1998.
- Al-Karak conference held at mu'tah University during the period 11-13/10/1998

### **Letters of Gratitude:**

- 5 Letters from the president of Mu'tah University for different purposes.
- 7 letters from local community inside Jordan and letter from Egypt.

### **Cooperation with the Local community:**

- Teaching at Al-Karak higher college for certification of Teachers.
- Chairman, sixth exposition of experiment for the high school student at Mu'tah University in 1991 and 1992.
- Chairman of First Environmental Conference on Agriculture, Mu'tah University, 1998.
- Chairman of the First on Agricultural Exposition at Mu'tah University, 1998.

## Courses Taught:

Course Title	Course No.	Times
Biology 101	305101	3
Biology 102	305102	3
Biology 105	305105	3
Biology 106	305106	3
Cell Biology	305251	5
Microbiology	305332	1
Microbiology lab.	305334	1
Genetics	305342	5
Embryology	305211	2
Genetic Engineering	305444	5
Seminar	305491	1
Molecular Biology	305452	5
General Science	305103	3
Evolutionary biology		3

## Invention:

Patent application serial No. 07/288,687” A glucose repressible gene for the regulated expression of proteins and expression vector thereof”.

## Awards and Scholarships:

- Scholarship to study Biology in France during the period 1970-1975.
- Mark Diamond Award from New York State University, 1988 Biological Sciences Department at Buffalo, 1988. Performance as graduate student.
- Mu'tah University Certificate of Excellency in teaching, research and University service, 1998.
- Certificate of Excellency from Al-Karak conference organizers, 1998.

## Research:

- Ph.D. Dissertation: “Identification of a cis-acting element involved in the transcriptional regulation of Neurospora crassa glucose - repressible gene 1. (1989).

## Articles: (Published in referred Journals).

- 1- Khaled .A. Tarawneh and S.J.Free . Expression of *Neurospora crassa* chimeric gene and construction of *Neurospora crassa* expression vector . Abhath Al-Yarmouk "Pure science and engineering Series" Yarmouk University. Vol.3, No-1, 1994, pp.65-77 .
- 2- K.A. Tarawneh, Z. Wang and S.J. Free. Nucleotide sequence of a *Neurospora crassa* ribosomal protein gene. *Nucleic Acids Research*. Vol.18,No.24 (1990): 7445 .
- 3- Khaled A. Tarawneh and George Malacinki. Expression of alpha-actin and cytoskeletal-actin genes during early embryogenesis in Amphibian *Xenopus leavis* and *Ambystoma mexicanum* . *Mu'tah Journal for Research and Studies* Vol.6, No.1 (1991) : 63-76 .
- 4- Khaled A. Tarawneh, Z. Wang and S.J. Free. Characterization and transcriptional regulation of a *Neurospora crassa* ribosomal protein gene (glucose-inducible gene), *Mu'tah Journal for Research and Studies* Vol.7,No.1 (1992): 127-132.
- 5- Z.P Wang, K.A. Tarawneh and S.J. Free . Isolation, Sequencing and characterization of Crp.5, a gene encoding a *Neurospora* ribosomal protein. *Current Genetics*, Vol.23, No.4 (1993): 330-333 .
- 6- Khaled A. Tarawneh . Spatial expression of alpha-actin gene during *Xenopus leavis* embryonic somitogenesis and its molecular induction in blastula ectoderm . *Dirasat* Vol.21,No.2, (1994): 183-195 .
- 7- Khaled A.Tarawneh . Effect of application time of 2,4-D and Tralkoxydim on weed control and the yield Of some wheat cultivars in the south of Jordan . *Journal of Basic and Applied Sciences* Vol.(1)(1993): 21-32.
- 8- Khaled A. Tarawneh and Adnan Mubaidin . Soild wastes: Methods of its treatment and Reuse in south Al-MAZAR county/Jordan . *Mu'tah Journal for Research and studies . Natural and Applied sciences .* Vol.9,No.4. (1994): 11-28 .
- 9- Khaled A. Tarawneh, Kalyan Anumula and Stephen J. Free.The isolation and characterization of a *Neurospora crassa* gene (ubi: crp6) encoding an ubiquitin- 405 ribosomal protein fusion gene. *Gene* 147 (1994): 137-140
- 10- Khaled A. Tarawneh and Stephen J. Free. Expression of *Neurospora crassa* tyrosinase gene under the control of glucose repressible gene (Grg-1) promoter. *Mu'tah Journal for Research and studies* Vol.11.No:3, (1996) .
- 11- Khaled A. Tarawneh . *Neurospora crassa* glucose – repressible Gene-1 (Grg-1) promoter controls the expression of *Neurospora* tyrosinase gene in a clock-controlled manner. *Mu'tah Journal for Research and studies*. Vol.12.No.3 (1997) 29-42.
- 12- Khaled A. Tarawneh and Muayed Aboud. AIDS virus and its transmission . *Mu'tah University publication*, 1999. (in Arabic).

- 13- Khaled A. Tarawneh et al. Checklist of south Jordan vertebrates Mu'tah University Publication, 1999. (In Arabic) .
- 14- Lamya. J. Diwany, Khaled A. Tarawneh and Ahmed H. Mustafa. Detection of Gluthione S-Transference in Moderate Halophilic bacteria isolated from Al-Ghuir agricultural station in Karak governorate (South Jordan). Mu'tah Journal for Research and studies (Accepted 12- 1998).
- 15- Abdel hamid Sammarrie, khaled A. Tarawneh and Kadimi Dia. Effect of Nitrogen source on the production of five wheat cultivars in south Jordan. Mesopotamla J. of agricultural . Vol .30 No.3. 1998 (accepted on 7/10/1990).
- 16- K.A. Tarawneh and A.A. Al-Samarrie. Performance of six barley cultivars under dry land conditions in south Jordan. Submitted to mesopotamla J. of agriculture. Mosul University.
- 17- Khaled A. Tarawneh and Najah Shamo Katy. Genetics and Molecular Biology Manual, 1998 .
- 18- Khaled A. Tarawneh and Najah Shamo .General Biology 305105 Laboratory Manual, 1998 .
- 19- Khaled A. Tarawneh et al. chemical and Biological Dangerous Technology, 1999. (In Arabic).
- 20- Khaled A. Tarawneh et al. Hydrochemical and bacteriological study of the springs in Al-Tafileh region/ South Jordan. Accepted on 15/2/1999 in Mu'tah Journal for Research and Studies.
- 21- Khaled A-Tarawneh et al. Scientific Education 1995. First Education . 1995. First Edition. Ministry of Education publ. Jordan .
- 22- Khaled A. Tarawneh. The present status of Al-karak agriculture . AL-Karak conference, 1998.
- 23- Raja sa'ad Eddin, Talib A.Essa, khaled A-Tarawneh and Ayed A-Omary . Respones of four barley cultivars to salinity. Mesopotamlaj. Of agriculture Vol.32 No.2 (2000) 109-113.
- 24- Merza. H. Homady H.H. Hussain K.A. Tarawneh J.M. Shakhanbeh , I- A. Al-Raheil and P.F. Brain. Effect of oral Application of some medicinal plant extract used in Jordan on social aggression as well as testicular and preputial gland structure in male mice. Paktistan J.B.S 3(3): 398-402, (2000).
- 25- H.H. Hussain , Merza H. Homady, and Khaled A-Tarawneh . Effects of chromiaun compounds on incidence of social aggression and Fertility in prepubertal male mice P.J.B.S 3(9): 1519 – 1524, (2000) .
- 26- Saman.R Lahony, Khaled Khleifat, Kaled A.Al-Tarawneh, Muayad M- Abboud, Ratib M. Al-Oran, Amjad A.Al-Tarawneh and Merza H.Homady.Variation in Five Species of Jordanian Reptiles with New Record on the Land Tortoises Testudo Testudinidae:Chelonia).Pakistan J.Zool.,Vol.34(1),pp.43-49,2002.
- 27-Khaled Khleifat, Jumah Shakhanbeh,Khaled Tarawneh. The Chronic Effects of Teucrium polium on Some Parameters and Histopathology of Liver and Kidney in the Rat. Turk Biol.26(2002)65-71

- 28-Khaled Khleifat, Merza H.Homady& Khaled A.Tarawneh. Histopathological Effects of Ferula *hormonis* Extract on the Colon of Male Mice . Mu'tah Lil-Buhuth wad-Dirasat Voi.17.No.2, 47-58 ,2002.
- 29- Merza H.Homady, Khaled M.Khleifat, Khaled A.Tarawneh, Ismael A.Al-Raheil.Reproductive toxicity and infertility effect of Ferula *hormonis* extracts in mice. Theriogenology57(2002)2247-2256
- 30-Dr.Doukhi Huneiti , Dr.Ayed Abedl Razzag al-Omary, Dr.Khaled Tarawneh. Identification of Socio-economic Factors Affecting Development Process (Field Survey of Southern Badia of Jordan).Financed Research Projects . The Higher Council for Science and Technology .
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- 31- Khaled khleifat et al.(Khaled Tarawneh). Effect of Chlorination Treatment on Gram Negative Bacterial Composition of recycled wastewater. P.J.Biol.Sci. 9(9):1660-16608 (2006)
- 32- Khaled khleifat et al. (Khaled Tarawneh). Effect of Variation in Copper Sources and Growth Conditions on the Copper uptake by Bacterial Hemoglobin Gene(vgb) Bearing E.coli. P.J.B.S.9 (11): 2022-2031 (2006)
- 33-Khaled Tarawneh et al. Temporal Expression of Neurospora crassa Tyrosinase Gene Under The Control of Glucose Repressible Gene-1 (grg-1) Promoter (2008). AJBAS, 2(4): 805-814.
- 34- Khleifat K. M, Ibrahim Al-Majali; Reyad Shawabkeh and Khaled Tarawneh (2007). Effect of Carbon and Nitrogen Sources on the Biodegradation of Phenol by *Klebsiella oxytoca* and Growth Kinetic Characteristics. Fresenius Environmental Bulletin, 16 (5) 1-7.
- 35- Abdd et al. (Khaled Tarawneh).Different optimizing conditions required for enhancing the biodegradation of linear alkylbenzosulfonate and sodium dodecyl sulfate surfactants by novel consortium of Acinetobacter calcoaceticus and Pantoea agglomerans".Enzyme and Microbial Technology, 41: 432-439(2007)
- 36- Reyad Shawabkeh ; Khaled M. Khleifat ; Ibrahim Al-Majali ; Khaled Tarawneh Rate of Biodegradation of Phenol by *Klebsiella oxytoca* in Minimal Medium and Nutrient Broth Conditions Bioremediation Journal, Volume 11, Issue 1 January 2007, pages 13 - 19.
- 37-Khleifat, K.M. Khaled A Tarawneh, Amjad A Al-Tarawneh, Khalid AlSharafa; Mohammad A Wedyan (2008). Growth kinetics and toxicity of *Enterobacter cloacae* grown on linear alkylbenzene sulfonate as sole carbon source. Current Microbiology, Volume 57, Number 4, pp. 364-370(7)
38. Khaled A Tarawneh Nafe M. Al-Tawarah, Adel Abdelghani, Ahmad M. Al-Majali and Khaled M Khleifat (2008).Characterization of Verotoxigenic *Escherichia coli* (VTEC) isolated from slaughtered small ruminants and slaughterhouses in Southern Jordan. Journal of Basic Microbiology, 48, 1–8
39. Omar S., Tarawneh KA, Abu Samhadana Z. Khleifat KM (2008). Inhibition of *Enterobacter sakazakii* in reconstituted infant milk formula by probiotics, nisin and some of plant extract (Accepted in Irish Journal of Agricultural and Food Research).

40. Tarawneh, K; Khleifat, K.M et al (2008). Evaluation of Cefaclor Oral Suspensions Stability by Using Reversed phase High Performance Liquid Chromatography and Antimicrobial Diffusion Methods (Accepted in Process Biochemistry).
41. Abbod M. M; Khleifat KM; Tarawneh KA; Al-Mustafa AH; ; Elshafei Badawi M (2008). Effects of Free Amino acids on Catechol Oxidase From Different Plant Sources. *Advances in Food Sciences Journal*, 30 (1).1-8
- 42-Khaled a, Tarawneh, Sharaf Omar, Osama Twissi, Khaled M. khleifat, Ahmad Al-Mustafa and Khaled Al-sharafa (2008). Antifungal and antioxidant effects of extracts of some medicinal plant species growing in south Jordan. *Bull. Fac. Agric., Cairo Univ.*,59 (2008): 242-249.

#### **SUBMITTED FOR PUBLICATIONS**

43. Khleifat, KM., Tarawneh, KA., Halaseh, ZA, Shawabkeh R.Halaseh, ZA., AlMajali, A. (2008). Biodegradation of linear alkylbenzene sulfonate by *Burkholderia* sp.: Effect of some growth conditions (Bioremediation J).
- 44 . Al-Tarawneh Amjad, Khleifat K, Tarawneh Khaled and Homodi Saed. Copper uptake *in vivo* and *in vitro* by *Pseudomonas aeruginosa* isolated from burn-infected patients (*Appl. J. Microbiol.*)
- 45 Khleifat KM., Saif Dmour., Tarawneh K. Utilization of Whey by *Vitreoscilla* hemoglobin gene (*vgb*) bearing *E. coli*: effect of some growth conditions on the lactic acid production (*J. Biotechnology*)
46. Garaleh H, Tarawneh A, Khleifat M K, Tarawneh K.A. Effect of *Thymus capitatus* plants on growth of *Pseudomonas aeruginosa* (*J. Antibiotics*).

#### **Master thesis supervised:**

- 1-Antibacterial, Antioxidant Activity of Some Plant Extracts Grown in South Jordan
- 2-Antifungal and Antioxidant Effect of Some plant Extracts Selected from South Jordan
- 3- Characterization of Verotoxigenic *Escherichia coli* isolated from slaughtered small ruminants and slaughter houses in Southern Jordan
- 4- Temporal Expression of *Neurospora crassa* Tyrosinase Gene Under The Control of Glucose – Repressible Gene-1(Grg-1) Promoter
- 5-Evaluation of cefaclor oral suspensions stability in the Jordanian market.
- 6- isolation and characterization of halophilic bacteria from the Dead Sea region( Jordan vally) and AQABA gulf.
- 7- Inhibition of *Enterobacter sakazakii* in dry and reconstituted infant milk formula by Probiotics,Nisin and some of plant extracts.
- 8-Biodegradation of chloroaromatic compounds.
- 9-Study on *Pseudomonas aeruginosa* isolated from infected patients:Copper uptake, Hematological finding and effect of some Medecinal plants.