

## Curriculum Vitae

**Name:** **Shatha Ayed Yousif**

**Date of Birth:** September 18, 1965

**Place of Birth:** Iraq

**Nationality:** Iraqi

**Marital Status:** Single

**Sex:** female

**Work address:** Genetic Engineering Dept. / Ministry of Science and Technology, formerly The Iraqi Atomic Energy Commission (IAEC), P.O. Box 765, Baghdad- Iraq.

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### Education

- May2007- Postdoc training with A/Prof Bhava at Swinburne University  
Feb of Technology/ Australia (Identification and  
2008 characterization of aquaporine genes from wheat)  
2002 **Doctor of Philosophy**, Baghdad University, College of  
Agriculture, Baghdad, Iraq, Specialization in Plant  
Breeding and Genetics (Evaluation and regeneration  
salt tolerance rice plant using different techniques)
- 1994 **Master of Science**, Baghdad University, College of  
Agriculture, Baghdad, Iraq, Specialization in Plant  
physiology (Responses of broad bean genotypes to salt  
and fertilizer and studies of nitrate reductase activity).
- 1987 **Bachelor of Science**, Baghdad University, College of  
Agriculture, Baghdad, Iraq, Specialization in Crop  
Science

### Awards:

- 1- Post-doctoral research at Swinburne University of Technology under the support of Endeavour research programme of the Govt. of Australia.
- 2- TWAS- UNESCO Associateship

### Academic qualifications:

Assistant Scientific Researcher 1988

Scientific Researcher 1998

Senior Scientific Researcher 2009

### Scientific Membership

Society of Iraqi Agricultural Engineers, since, 1988

### **General Research Interests**

The major focus of my research is in improving salt and drought tolerance of important crops (rice, wheat, Potato, broad bean, and corn) using biotechnology and molecular biology technology. Also I am interest with PIP and TIP aquaporine genes in wheat. I isolated some new PIP aquaporins genes from wheat plant and also I isolated the promoter of PIP1:1 gene by using IPCR.

### **Current projects**

- 1- Induce rice plants salt and drought tolerant by tissue culture and transformation using agrobacterium
- 2- Estimation of some genetic parameters in wheat
- 3- Induce potato plants salt tolerant by tissue culture and mutagenesis.
- 4- Proliferation date palm using tissue culture

The project benefits the agriculture industry in many ways: it increases productivity, raises income, and improves the sustainability of farming systems.

### **Research grant**

Mutation Induction and Supportive Breeding and Biotechnologies for Improving Crop Productivity (ARASIA) funded by IAEA.

The countries under the ARASIA agreement are Iraq, Jordan, Lebanon, Saudi Arabia, Syrian Arab Republic, United Arab Emirates and Yemen.

The objectives: An improved regional partnership in the field of mutation induction to enhance breeding for food security and socioeconomic development.

### **Other activities**

- 1- A regular tutor of many courses that arranged by my institution (Ministry of Science & Technology) and the aim of these courses are to teach tissue culture, genomics and molecular genetic technologies.
- 2- Lecturer on Bioinformatic course / Baghdad University

### **Training course:**

1. Visiting Professor in Virginia Bioinformatics Institute/ Virginia Tech University , November 2009 to March 2010, Virginia, USA
2. Regional training course on the implementation of SMTA through options and guide on practices, procedures, legal matters and policies in the multilateral system. the IAEA Laboratories, 20-24 April 2009, Seibersdorf Austria
3. Theoretical Course " RNA Structure and Function" ICGEB, 30 March - 2 April 2009, Trieste, Italy

4. Meeting on "Biotic and Abiotic Stress Responses in Plants" ICGEB 11 – 13 December 2006. New Delhi, India.
5. Practical course: Genetics Transformation of Plants & Detection of Genetically Modified Organisms. ICARDA. 28 May – 8 June 2006. Aleppo, Syria.
6. Practical course, Bioinformatics: Computer Methods in Molecular Biology. ICGEB. 24 June – 1 July 2005. Trieste, Italy.
7. Training fellowship in the field of plant breeding & genetic from 15 December 1998 to 14 March 1999. IAEA laboratories. Seibersdorf. Austria.

### **Major achievements:**

Contributed in deducing of a new wheat variety (Al- Latifiya).

### **Scientific conferences**

1. The 8<sup>th</sup> Conference of Agricultural Engineers Institution. 16-18 November 1992, Baghdad, Iraq.
2. The First Conference of Science. 26-28 March 1996, Baghdad- Iraq.
3. The 14<sup>th</sup> Conference of Iraqi Biological Agency, 11-13 March, Kuffa, Iraq.
4. Sixth Arab Congress of Plant Protection. 27-31 October 1997. Beirut- Lebanon.
5. Jordanian Society for Biological Sciences. 8-11 November 1997. Amman- Jordan.
6. The 2<sup>th</sup> Conference of Agricultural, Anbar University, 30-31 March 1998, Anbar- Iraq.
7. The Third Conference of Science. 22-24 April 2000. Deyala-Iraq.
8. The First National Scientific Conference for Plant Production. 21-23 November 2000. Tikrit- Iraq.
9. The 5<sup>th</sup> Scientific Conference for Agricultural Research. 22-24 February 2002, Mosul- Iraq.
10. Kurdistan 1<sup>th</sup> Conference on Biological Sciences. 2 – 4 May 2006, Dohuk - Iraq
11. The 6<sup>th</sup> Conference for Agricultural Research 22-24 October 2007, Baghdad- Iraq.
12. The 6<sup>th</sup> Conference of Agricultural. 9-12 May 2007, Amman- Jordan.
13. 58<sup>th</sup> Australian Cereal Chemistry Conference, August 31 - 4 September 2008, Gold Coast, Queensland - Australia
14. The First Conference of Biotechnology Center. 22-23 December 2008, Baghdad- Iraq.
15. Conference on Research Policies and Their Role in National Development, 22-24 June 2009, Baghdad, Iraq.
16. Iraq Soil and Water Management Conference, 15-17 July 2009, Baghdad- Iraq.
17. First Scientific Conference College of Science, 29-30 September 2009, Tikrit- Iraq.

18. 7<sup>th</sup> Scientific Conference for Agricultural Research, 26-28 October 2009, Baghdad- Iraq.
19. The 12<sup>th</sup> International Conference of Agronomy, 20-22 September 2010, Suez - Egypt.

### Publication:

1. Mohammed, L., **Yousif, Sh.A.**, Ali, H., Radee, H. and Al Hadi, A. (2010). Response different rice genotypes to potassium fertilization under salt stress. *Dirasat Agric. Sci.*, 37 (1): 1-7.
2. **Yousif, Sh.A.**, Afza, R., Al- Saadawi, I. S., and Naser Alla, A. Y. (2009). Salt tolerance for different rice varieties. *Iraqi J. Agric.* 14(7):121-133.
3. **Yousif, Sh.A.**, Yousif, D.P. (2009) Investigation the Genetic Control of Callus Induction and Plant Regeneration in Spring Wheat (*Triticum aestivum* L.) Cultivars. *Iraqi J. Agric.* 14(7):97-103.
4. Yousif, D., **Yousif, Sh.A.**, Jassim, R., Abd, Q., Kasim, A. and Abid, N. (2009). Estimation of some genetic parameters in wheat (*Triticum aestivum* L.) breeding. *Proceeding of The First Scientific Conference College of Science*, 29-30 September 2009, Tikrit- Iraq. Pp: 1-4.
5. Forrest, K.; **Yousif, Sh. A** and Bhave, M. (2008). Cloning of a wheat aquaporin gene promoter by IPCR shows abiotic stress response elements. *Royal Australian Chemical Society (RACI) Cereal Chemistry Conference*, August 31- 4 September, Gold Coast, Queensland – Australia.
6. Kadum, A. H., **Yousif, Sh. A.**, Jabir .F. A., Ulaywi .J. A., Kadum H. A. (2008). Effect of irrigation treatments on the growth and yield of two rice cultivars Amber Baghdad and Amber Munathera. *Dirasat Agric. Sci.* 35 (3): 12-18.
7. **Yousif, Sh. A.**, Al- Saadawi, I, Jassim, R. (2008). Induce rice plants salt tolerant by tissue culture . *Journal of Dohuk University*,1:1-6
8. Yousif, D.P.,**Yousif, Sh. A.** (2007). Drought tolerance of plants. *Iraqi Agriculture* 4: 19-24.
9. **Yousif, Sh.A.**, Al- Saadawi, I. S., and Naser Alla, A. Y. (2007). The effect of salt and radiation on rice growth Amber Baghdad and Amber Furat callus and plant regeneration. *Iraqi J. Agric.* 12(2): 13-21.
10. **Yousif, Sh.A.**, Dheya P. Yousif, Abd Al Kareem Kasim, Adel Saleem. (2007). Genetic behavior and heterosis for some growth traits of local bread wheat cultivars. *Iraqi J. Agric.* 12(2):6-12.
11. **Yousif, Sh.A.**, Mohammed, L., Amer , A., Ali, H., Radee, H. (2006). Evaluation of some rice genotypes to irrigation treatments. *J. Agricultural Investment.* 4:85-88

12. **Yousif, Sh.A.**, Ikhlas, A. J. (2006). Effect of salt and radiation on ion content for Amber Baghdad and Amber Furat callus. *Dirasat Agric. Sci.* 33 (1): 12-18.
13. **Yousif, Sh.A.**, Al- Saadawi, I. S. and Naser Alla, SH.A.. (2005). Effect of salt and radiation on ion content in rice callus. *J. Agricultural Investment.* No.3: 75-79.
14. **Yousif, Sh.A.**, Al- Saadawi, I. S., and Naser Alla, A. Y. (2002). Effect of salt and radiation on some physiological parameter for Amber Baghdad and Amber Furat calli. *Iraqi J. Agric.*, 8(4): 71-79.
15. **Yousif, Sh.A.**, (2002). Response of rice varieties Amber Baghdad and Amber Furat to tissue culture. *Proceeding of the Eight Scientific Conference*, 30 –31 March, Baghdad, Iraq Pp. 125-136.
16. **Yousif, Sh.A.** and Fattah, F.A. (2001). Neem propagation. *J. Tikrit University*, 1(4): 190-199.
17. Naser Alla, A. Y., and **Yousif, Sh.A.** (2001). Effect of different salt levels in rice genotypes. *J. Tikrit University*, 1(4): 190-199.
18. AL- Dleamee, N. H., **Yousif Sh.A.** and AL- Solag B. H. (2000). Effect of water stress in germination and seedling growth in 14Th wheat cultivars (*Triticum eastivum* L.). *Deila J.*, 2(8): 474-484.
19. **Yousif, Sh.A.** and Frhaan, J. (1999). Fertilization Rice field by Azolla plants. *J. Agricultural and Development (Khartoum)* No. 3: 31-37.
20. **Yousif, Sh.A.**, Al- Saadawi, I. S. and Naser Alla, A. Y. (1999). Nitrate reductase activity in 21 genotypes of broad bean *Vicia faba* L., *Dirasat Agric. Sci.*, 26(3): 411-416.
21. **Yousif, Sh.A.** and Fattah, F.A. (1999). Propagation of neem plants (*Azadirachta indica* L.) by tissue culture. *Dirasat Agric. Sci.*, 26(2): 287-291.
22. **Yousif, Sh.A.**, Al- Saadawi, I. S., and Naser Alla, A. Y. (1999). Effect of salinity and nitrogen fertilization on nitrate reductase activity in local cultivar of broad bean *Vicia faba* L. *Dirasat Agric. Sci.*, 26(1): 144-150.
23. **Yousif, Sh.A.**, Al-Janabi, K. K., and Naser Alla, A. Y. (1998). Response of wheat and tritical anthers to tissue culture. *The 2th Conference of Agricultural, Anbar University*, 30-31 March Anbar, Iraq Pp: 1-8.
24. **Yousif, Sh.A.** and Al- Saadawi, I. S. (1997). Effect of salinity and nitrogen fertilization on osmotic potential and elements accumulation in four genotypes of broad bean *Vicia faba* L. *Dirasat Agric. Sci.*, 24 (3): 395-401.
25. **Yousif, Sh.A.** (1997). Propagation of neem in vitro. *The 14th Conference of Iraqi Biological Agency*, 11-13 March, Kuffa, Iraq
26. **Yousif, Sh.A.** and Al- Saadawi, I. S. (1997). Distribution of nitrate reductase in broad bean at different stages of growth and

- development. The 4th Scientific Conferences, 21-22 October, Baghdad, Iraq (1997).
27. **Yousif, Sh.A.** and Al- Saadawi, I. S. (1996). Responses of broad bean genotypes to salt tolerant, National Seminar on Plant Genetic Resources, IBGRI, 27- 29 February, Baghdad, Iraq.
  28. Mahmoud, I.S., Khazal, K.A., Maytam, A. A., and **Yousif, Sh. A.** (1992). Cytogenetic studies on cultivated x wild wheat hybrids. The 8th Conference of Agricultural Engineers Institution, 16-18 November, Baghdad, Iraq, Pp. 187-197.