

## Curriculum Vitae

### **Raad Mahmoud Salman**

**Date of Birth** : 01-07-1948  
**Citizenship** : IRAQI  
**Marital Status** : Married, one son  
**Major** : Plant Breeding and Genetics  
**Minor** : Plant Cell and Tissue Culture  
**Title** : Senior Research Scientist (Associate professor)  
**Address** : C/O Dr. Selma Selman , Jordan Univ. of Science and Technology , Dept. of Nutrition and Food Technology , P.O.Box 3030 Irbid, Jordan .  
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### **Education:**

- 1971: Bsc. Crop Production , College of Agriculture, Mousl University, Iraq
- 1982: Msc. Plant Breeding , Kansas State University , USA  
**Advisor** /Dr. Elmer G. Heyne , Dept. of Agronomy , KSU , Manhattan , Ks. 66506, USA  
**Thesis**/ Heritability Estimates and Gene Effects for Basal Spikelet Sterility and Other Agronomic Characters in Four Crosses in Winter Wheat.
- 1986: Ph.D Plant Breeding , Kansas State University , USA  
**Advisor** /Dr. Rollin G. Sears , Dept. Of Agronomy , KSU, Manhattan, Ks. 66506. USA  
**Dissertation**/Genetic Control of Tissue Culture Response In Winter Wheat.

### **Side Projects:**

In Vitro Selection for Herbicides, Drought. and Salt Tolerance in Wheat  
Response of Different Triticale Genotypes for Tissue Culture Technique .

### **Employment:**

- 1971- 1979 : Agricultural Engineer , Seed Testing and Certification Dept., Ministry of Agriculture , IRAQ.
- 1980- 1986 : Post- Graduate Student , Kansas State University , USA.
- 1986- 1988 : Research Scientist , Agricultural and Biological Research Center , Iraqi Atomic Energy Commission, IRAQ.
- 1989 – 1993 : Research Scientist ,Head of the Dept. Of Botany , Agricultural Research Center , Ministry Of Agriculture, IRAQ. IRAQ/IPGRI ( International Plant Genetic Resources Institute) National Coordinator.
- 1994- 1995 : Senior Research Scientist , Head of the Dept. Of Research and Training, Mesopotamia Company for Seed Production , Ministry of Agriculture , IRAQ.
- 1996 – 1998 : Senior Research Scientist ,Head of the Dept. Of Botany, State Board for Seed Testing and Certification , Ministry of Agriculture , IRAQ IRAQ/ICARDA ( International Center for Agricultural Research in the Dry Areas) National coordinator. Dept. of Botany Consist of Plant Genetic Resources Unit of Iraq and Iraq National Herbareum.
- 1999-2001: Associate professor, University of IBB, Yemen.
- 2003-2004 : Lecturer, Jordan University of Science and Technology , Irbid , Jordan

### **Research Interest and Activities:**

1. Plant Breeding .
2. Plant Cell and Tissue Culture .
3. Germplasm Conservation .
4. Seed Testing , Certification , and Production Programs.
5. Lecturer in the field of Plant Breeding, Plant Cell and Tissue Culture, and Germplasm Conservation.

6. Supervisor and external examiner for Ph.D and Msc. Students.

### Teaching Interest:

#### Teaching the following graduate and undergraduate courses:

1. Plant Breeding
2. Advanced Plant Breeding
3. Plant Genetics
4. Population Genetics
5. Quantitative Genetics
6. Principle of Genetics
7. Experimental Design
8. Plant Cell and Tissue Culture

### Publications:

#### Published papers:

1. Salman ,R.M. and E. G. Heyne .1987. Inheritance of Six Yield Components of Winter Wheat (T. Aestivum L ). Transactions of the Kansas Academy of Science 90 (3-4) : 103-112.
2. Salman ,R.M., R. G. Sears & A.C. Geunzi . 1984. Genetic Control of Tissue Culture Response in Winter Wheat .Agron. Abstr . 84:86.
3. Salman ,R. M. 1989 . Response of Different Wheat Genotypes for Tissue Culture Technique.Iraqi. J.Agric.Sci.20(2):90-100.
4. Salman ,R. M., A. A., M. Al- Jiboury ,W .K. Al –Quadhy and M.S. Omar . 1988. Isozyme and Chromosomal Analysis of Tissue Culture Derived Date Palms. Date Palm J. 6(2):401-411.
5. Al-Jiboury ,A.A. M. ,R. M. Salman & M.S. Omar . 1988. Transfer of the In Vitro Regenerated Date Palms to the Soil .Date Plam J. 6(2):390-400.
6. Abdul –Hussain S. S., and R. M. Salman . 1993. Preliminary Evaluation Of Selected Wheat Genotypes for Some Quality Characteristics. Iraqi J. Agric. Sci. 24(2).
7. Salman ,R. M. And S. M. Shuker . 1994 . Growth and Regeneration Ability of Wheat Callus Culture Exposed to Salt and Irradiation . Iraqi J. Biology.
8. Salman , R.M. And S. M. Shuker , 1994. Ion Contents and Water Relation in Wheat Callus Cultures Exposed to Salt and Irradiation . Iraqi J. Biology.
9. Salman , R. M. And S. M. Shuker . 1994 .Growth and Regeneration Ability of Wheat Callus Culture Exposed to PEG- Induced Water Stress and Irradiation, Iraq J. Applied Sci.
10. Salman ,R.M. and S. M. Shuker . 1994. Ion Contents and Water Relations in Wheat Callus Culture Exposed to PEG- Induced Water Stress and Irradiation , Iraq J. Applied Sci.
11. Salman R. M. 1996. Plant Genetic Resources in Iraq .Seminar on Plant Genetic Resource of Iraq. Proceeding , Baghdad , Iraq ,Feb.1996.
12. Salman ,R.M. 1996. Wheat Genetic Resources in Iraq .International Symposium on In Situ Conservation of Plant Genetic Diversity, Proceeding , Antalya –Turkey, Nov. 1966.
13. Salman ,R.M. 1997.Utilization of Selected Germplasms in Wheat Breeding Program in Iraq. International Triticeae Symposium, Proceeding , Aleppo, Syria , May 1997.
14. Salman R. M., S. S. Abdul- Hussain , K. A. Al-Obaidy . 1997. Quality Characteristics of Some Wheat Germplasms Selected Under Iraq Condition. International Triticeae Symposium , Proceeding , Aleppo Syria , May 1997.
15. Salman ,R.M. 1998 , Cookies Production from Wheat /Barley Mixture. Iraqi J. Agric. Sci. 29(1).
16. Salman , R. M. 1997. Cereal Working Group, Iraq Report , IPGRI, WANA Network, Aleppo , Syria.
17. Al-saadon , M. R. M. Salman . 1998. Agronomic and Inheritance Studies on Some Bread Wheat Grown Under Iraqi Conditions . International Conference on Science Day, Proceeding , Syria.

### **Under Publication Papers :**

1. Salman , R.M. Germplasm Resources in Wheat :An Initial Evaluation of Some USDA World Collection and Iraqi Landraces of Wheat .
2. Salman ,R. M. Collecting , Characterizing and Conserving Germplasm in Iraq.
3. Salman , R.M. Genetic Analysis of Some Yield Components of Spring Wheat ( T. Aestivum L.).
4. Salman , R. M . Sensory Evaluation for Bread and Cookies made from Newly Developed Varieties of Spring Bread Wheat.
5. Dheya ,P Y., R. M., Salman , A. H. Majeed , and J. N. Mahmood . Domestication and Hybridization of Exotic Germplasm with Local Popcorn ( Zea mays L. everta).
6. Salman , R. M. Strategies and Technologies for Conservation and Sustainable Use of Biodiversity in Larger West Asian and North African Landscapes : IRAQ profile .Egypt.
7. Salman , R . M. Selecting new promising lines of spring wheats.

### **Technical Studies and Proposals :**

1. Strengthening and Rehabilitation of Plant Genetic Resources Activities in Iraq : Presented to FAO . 1989.
2. Collaboration in Conservation of Plant Genetic Resources between Iraq and ICARDA : Presented to genetic resources unit of ICRADA.1992.
3. Improvement of Maize Production in Iraq : Presented to the Ministry of Agriculture , Iraq.1995.
4. Agricultural Sector in Iraq: Presented to the Arab Organization for Agricultural Development. 1996.
5. Rehabilitation of Seed Processing plants in Iraq : Presented to FAO.1996
6. Analysis Review for the National Agricultural Research System (NARS),Iraq profile : Presented to FAO, ICRADA, INRA. 1997
7. Conserving Biodiversity in Iraq : Presented to the Ministry of High Education and Scientific Research . Iraq . 1998.
8. EX- Situ Conservation of Cultivated and Wild Progenitors of Wheat , Barley, and Medicinal Plants in Iraq : Presented to IPGRI. 1998.

### **Scientific Visits :**

1. Arab Organization for Agricultural Development (AOAD) .1992. Sudan
2. International Center for Agricultural Research in the Dry Areas (ICARDA) . 1993. Syria
3. International center for Agricultural Research in the Dry Areas (ICARDA).1997.Syria
4. Field Crops Research Center of Turkey , 1998 . Turkey
5. International Center for Wheat and Maize Improvement (CIMMYT) 1998. Mexico.

### **Seminars and Lectures :**

1. In vitro selection as a tool in plant breeding .1987 .IRAQ.
2. Utilization of plant cell end tissue culture for crop improvement . 1988.IRAQ.
3. Seed Production in Iraq .1996. IRAQ.
4. Germplasm Conservati in Iraq . 1996 IRAQ
5. The Fourth International Conference on Plant Genetic Resources . 1996.IRAQ
6. National Agricultural Research System (NARS) – Iraq profile .1997. IRAQ
7. Facts on the International Center for Wheat and Maize Improvement. (CIMMYT) .1998 IRAQ

### **Training Courses:**

1. Integrated Training Course on Seed Improvement ,New Delhi , India , 1977.
2. DNA Maker Technique for Crop Improvement and Germplasm Conservation . 1997. ICARDA ,Aleppo ,Syria .
3. Documentation and Information Management for Plant Genetic Resources .1998. ICARDA and IPGRI, Aleppo ,Syria.

### **National Committees Membership:**

1. Scientific Board of Agricultural Research Center.
2. National Committee for Registration and Release of the New Varieties.
3. Iraqi Standarization Organization.
4. Seed Testing and Certification.
5. Seed Production.
6. Plant Genetic Resources.
7. Editorial Board of the Iraqi Journal of Agricultural Research.
8. Iraqi Agricultural Engineers Syndicate.

### **International Scientific Research Society:**

#### **Membership and Award:**

1. Sigma Xi, the Scientific Research Society , Kansas State University chapter of the society .USA.
2. Gamma Sigma Delta, the honor society of Agriculture , In recognition of high scholarship , outstanding achievement or service to Agricultural science , Kansas State University ,USA.
3. Agricultural Alumni Organization , Kansas State University, USA.
4. American Society of Agronomy (ASA), USA.
5. Cereal Working Group, West Asia and North Africa Network IPGRI..
6. Recognition of Outstanding Scholarship , Kansas State University, USA.

### **Conferences:**

1. International conference of the American Society of Agronomy .1980, USA.
2. International conference of the American society of Agronomy 1981 USA.
3. International conference of the American Society of Agronomy1982 USA.
4. International conference of American Society of Agronomy 1984.USA
5. Kansas Academy of Science .1982 USA.
6. Iraqi Scientific Research Council .1987,IRAQ
7. Agricultural Research Center ,Agronomy Conference .1992.IRAQ
8. Cereal Working Group .IPGRI,WANA Network . 1993. Pakistan.
9. IRAQ/ ICARDA (International Center for Agricultural Research in the Dry Areas) Coordination meeting .1994.IRAQ
10. IRAQ/ ICARDA (International Center for Agricultural Research in the Dry Areas) Coordination meeting .1995.IRAQ
11. IRAQ/ ICARDA (International Center for Agricultural Research in the Dry Areas) Coordination meeting .1996.IRAQ
12. IRAQ/ ICARDA (International Center for Agricultural Research in the Dry Areas) Coordination meeting .1997.IRAQ
13. Plant Genetic Resources in Iraq . 1996.IRAQ
14. International Conference on Plant Genetic Resources .1996 Germany .
15. International symposium on in- situ conservation of plant genetic diversity .1996 Turkey.
16. International Triticeae Symposium .1997.Syria.
17. Cereal Working Group ,IPGRI, WANA, Network . 1997 Syria .
18. International Conference on Scientific Day 1998. Syria.
19. Wheat Improvement in Iraq. 1998.IRAQ