

## **C.V.**

**Name:** Sami R. Al-Zubaydi

**Office address:** College of Pharmacy, Duhok University, Kurdistan Region, IRAQ

**Sex:** Male

**Date of birth:** July 1<sup>st</sup>, 1954

**Place of birth:** Basra, IRAQ

**Nationality:** IRAQI

**Family status:** Married, 4 boys and one girl

**Present occupation:** Professor of Plant Physiology at the College of Pharmacy, Duhok University, Kurdistan Region of IRAQ.

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### **Education**

#### **A. Secondary school:**

Al- Basra Secondary School for boys (1972-1973) scientific branch /  
Baccalaureate- Diploma.

#### **B). Universities:**

1. University of Basra / IRAQ. 1977, B. Sc.

2. University of **ARIZONA / U.S.A.** 1983, M.Sc.

**M.Sc. Thesis:** Growth and Morphological Changes of Pepper (*Capsicum annuum* L.)  
with Various Mulches at High Temperatures.

3. University of **ARIZONA / U.S.A.** 1985, Ph.D.

**Ph.D. Dissertation:** Effect of Environmental Factors and Applied Growth Regulators on  
Growth, Cytokinin Production and Physiological Changes of Pepper (*C. annuum* L.)

#### **C). Promotions:**

1- Lecturer: Oct. 1<sup>st</sup>, 1985.

2- Assistant Professor: Sep. 6<sup>th</sup>, 1992.

3- Professor: Oct. 4<sup>th</sup>, 1997.

### **Professional and Practical Experiences**

My first appointment as assistant lecturer at Foundation of Technical Institutes on Mar., 1978 for 14 months and then I awarded scholarship to get M.Sc. and Ph.D. at Univ. of **ARIZONA / U.S.A.** I worked at the Environmental Research Laboratory (ERL) / Univ. of **ARIZONA / U.S.A.** as a research assistant during the years of 1983-1985. I learned a lot of techniques at the area of *plant physiology* and *vegetable production* along with the *environmental aspects*. I joined the University of Basra, Biology Department as staff member since 1985, then; I moved my service to the University of Duhok since 2006 till now.

I worked at different practical fields of studies with the *salt stress* problems facing the agriculture production at the southern area of Iraq. I also joined a research team in fungi problems associated with the plants beside some work in green algae related to *plant*

*physiology*. I have also developed several techniques in *plant tissue culture* related to the effects of salt concentration on tissue culture production of date palms. Recently, I have an interest working with the *plant extracts*. In this regard, I prepare these extracts to search at the area of the effect of these extracts on bacterial activity as well as evaluation of phytochemical analysis, hypoglycemic, antioxidant activities of these plants produced by tissue culture techniques or in natural conditions. I worked as *referee* for more than 400 scientific articles published in Iraqi and worldwide journals. I have been a head or a member of *examination committee* for M.Sc. and Ph.D. students as well as a committee head to detect the promotion of many faculty members and as an *evaluator* for the promotion of many faculty members for different scientific ranks.

Also, I was the *scientific evaluator* for M.Sc. thesis and Ph.D. Dissertations. I participated in many *international workshops* and *conferences* which were organized by Scientific Research Organizations and presented more than 50 seminars and scientific papers in different topics. Currently, as part of the collaboration of split-site program, Prof. Dr. Muralee Senior Associate to the Dean of CANR/ Michigan State University and I jointly supervise a Ph.D. student at the College of Agriculture, Horticulture Department – University of Duhok.

#### **Iraq university linkage program (ULP)**

I had the chance to visit Michigan State University/ USA at **Sep. 2013** as part of **Iraq university linkage program**. I attended many workshops, seminars as well as giving seminar and received a feedback. I had been asked to prepare and submit a proposal for creative ideas that build on and support sustainable collaboration in priority areas for Iraqi higher education and expand the impact for participating faculty and departments and my project titled "**Faculty Development & Instructional Development: Promoting Effective Learning in Classrooms**" had been selected to receive an Iraq ULP Project Grant. I visited the Michigan State University (**September, 2014**) and participated in different activities where I had successfully completed the twin goals of my grant **1)** to visit MSU to learn effective models of faculty development and best practices in teaching and learning and **2)** to provide presentations and workshops on these topics. I prepare 2 hours presentation to **UOD administrators (deans and chairs)** about effective models of faculty development widely used in US higher education to explore their viability and relevance for Iraqi higher education. Then, I prepare 2 ½ hours workshops for **faculty** at some Departments and Colleges at U-D on "Effective Teaching Methods: Active Learning" and "Effective Methods for Documenting and Evaluating Teaching".

### Awards:

- I was elected as “**The first professor**” at the College of Education for the year of 2001.
- I was ranked among the **outstanding staff members** in scientific work for the years of 1999 and 2000.
- My students whom I taught plant physiology course (1998) registered **highest score** in the central examination held by the ministry.
- I was a **head** of the editorial board for the J. of Basra Researchers (1999-2001) and a member of the editorial board for Iraqi J. Biol.
- I have been recognized by (90) official documents of “**thankful**” for my professional performance throughout my service at the university.
- Currently, I am the **head** of the scientific committee at the College of Pharmacy.

### Teaching Experience

I enrolled in teaching several undergraduate courses (15) and graduate courses (9) at the Colleges of Education, Science, Pharmacy and Agriculture / Universities of Basra, Koya and Duhok.

### Courses

#### Undergraduate

1. General Botany
2. Plant Taxonomy
3. Plant Nutrition
4. Plant Propagation
5. Experimental Design and Analysis
6. Handling and Storage of Fruits and Vegetables
7. Vegetable Production
8. Pharmacognocny I
9. Pharmacognocny II
10. Medicinal Plants
11. Plant tissue Culture
12. Plant anatomy
13. Plant Physiology
14. Human Biology
15. Academic Debate

#### Graduate

1. Adv. Plant Physiology
2. Plant–Water Relationships
3. Adv. Plant Nutrition
4. Plant Metabolism I
5. Plant Metabolism II
6. Photosynthesis
7. Plant secondary metabolites
8. Special Topics in plant Physiology
9. Advanced Eco-physiology
10. Phytochemistry

### Published Research Papers

1. Mulching Pepper under High Temperature Conditions. (1983). IX International Congress of Plastic in Agriculture, (Mexico).
2. Effect of Salinity on Germination, Growth and Ionic Content of Rice (*Oriza sativa* L.) at Early Seeding Sage, (1992).

3. Effect of Heavy Metals of Selected Algae Isolated from Some Polluted Canals at Basrah City-IRAQ, (1992).
4. A Study of Fungal Endophyte Associated with Desert Parasitic Plant (*Cynomorium coccineum*) in Southern IRAQ, (1993).
5. Germination, Growth Characters and Ionic content in Wheat (*Triticum durum* L.) as Affected by the Application of Saline Water at Early Seedling Stage, (1994).
6. Effect of Some Growth Regulators on Vegetative Growth, Flowering and Yield of Onion in Zubair, (1994).
7. Effect of Set Size on Growth and Yield of Onion in Zubair, (1994).
8. A Study on Salinity Resistance of Some Varieties of Wheat (*Triticum durum* L.) Cultivated in IRAQ, (1996).
9. The Effect of Salinity and Kinetin on Germination, Vegetative Growth and Ionic Content of Tomato (*Lycopersicon esculentum* Mill.), (1999).
10. Study on Quantity Changes on Produced Tomato at Zubair During Picking Season, (1999).
11. Effect of Salinity on Growth and Yield of the Local Variety of Barley (*Hordeum vulgare* L.) (1999).
12. Effect of Garlic Extract (*Allium sativum* L.) on the Inhibition of Growth of Rhizospheric and Roots Associated Fungi of Some Plants, (2000).
13. Effect of Salinity, N-Fertilizer and Their Interaction on Vegetative Growth, Mineral Content and Some Organic Components of Sweet Pepper Plants (*Capsicum annuum* L.), (2000).
14. Effect of Garlic Bulb Extract on the Growth and Enzyme activity of Rhizosphere and Rhizoplane Fungi, (2000).
15. Effect of: 1- Water Stress and Temperature on Growth, Cytokinin Production and Physiological Changes of Pepper (*Capsicum annuum* L.), (2000).
16. Effect of: 2- Applied Growth Regulators on Growth, Cytokinin Production and Physiological Changes of Pepper (*Capsicum annuum* L.) Grown Under Salt Stress.
17. Ionic Content of Soil and Wheat plants (*Triticum aestivum* L.) Grown Under Salt Stress Soils, (2001).
18. Isolation and Identification of the Ecological Factors Affecting Distribution of (*Dunaliella salina*) Algae, (2002).
19. Effect of Salinity on Growth of the Algae (*Dunaliella salina*) 1- NaCl and MgCl<sub>2</sub>, (2002).
20. Effect of Salinity on Growth of the Algae (*Dunaliella salina*) 2 – CaCl<sub>2</sub> and KCl, (2002).
21. Effect of Nitrogen Sources on Growth of the Algae (*Dunaliella salina*), (2002).
22. Effect of NaCl on the Cellular Content of Organic Compounds of the Algae (*Dunaliella salina*), (2002)
23. The Effect of Planting method, Planting Date on Vegetative Growth and Early Yield of some Tomato Cultivars (*Lycopersicon esculentum* Mill.) Grown in Arid Regions of Basrah, (2002).
24. The Effect of Planting Method, Planting Date on Flowering and Yield of Some Tomato Cultivars (*Lycopersicon esculentum* Mill.) Grown in Arid Regions of Basrah, (2002).

25. The Effect of Planting Method, Planting Date on Yield Quality and Quantity of some Tomato Cultivars (*Lycopersicon esculentum* Mill.) Grown in Arid Regions of Basrah, (2002).
26. The Effect of Planting Method, Planting Date on Growth Period and Fruit Weight of some Tomato Cultivars (*Lycopersicon esculentum* Mill.) Grown in Arid Regions of Basrah, (2002).
27. Effect of Garlic Extract (*Allium sativum* L.) on Conidia Number and Their Germination of Rhizospheric and Roots Associated Fungi of Some Plants, (2001).
28. Effect of Garlic Extract (*Allium sativum* L.) on Tomato Growth Infected with *Fusarium Oxysporum*, (2001).
29. Growth and Morphological Changes of Peppers (*Capsicum annuum* L.) with Various Mulches at High Temperatures, (2001).
30. Effect of Root Nodule Nematode *Meloidogyne sp.* on Chemical Content of Eggplant Plants (2002).
31. Antibacterial Effect of Some Medicinal Plant Extracts against Pathogenic Bacterial Strains (2006).
32. Antimicrobial Activity of the Isolated Oils from Some Plants (2008).
33. Effect of Sodium Chloride and Proline on Micropropagation of Date Palm (*Phoenix dactylifera* L.) CV. Barhee (2012).
34. Effect of Sodium Chloride and Proline on Embryo Formation and Germination Through *in Vitro* Micropropagation of Date Palm (*Phoenix dactylifera* L.) cv. Barhee. [II] (2013).
35. Antioxidant Assay Confirm Health Benefit of Watercress (*Nasturtium officinale*) Plant Grown in Iraqi Kurdistan Region.
36. Effect of Plant Preservative Mixture PPM<sup>TM</sup> on the shoot Regeneration of Watercress (*Nasturtium officinale*).
37. Effects of foliar application of (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub> and alga21st on vegetative growth and chlorophyll content of two cultivars sweet cherry (*Prunus avium* L.) transplants.
38. Effects of ammonium sulfate and seaweed extract (alga21st) as foliar spray to nutrition content of two cultivars of sweet cherry (*Prunus avium* L.) transplants.
39. Characterization of constituent therapeutic components of *Alcea kurdica* flowers and leaves using HPLC technique

### **Graduate Studies**

#### **I supervised (19) M. Sc. and Ph. D. students and below are the titles of their thesis or dissertations:-**

1. Physiological study on salinity tolerance of three rice varieties (*Oryza sativa* L.)
2. Physiological study on salinity resistance of some varieties of wheat (*Triticum aestivum* L.)
3. The effect of salinity, kinetin and interaction between them on germination, vegetative growth and ionic content of tomato.
4. The effect of salinity, nitrogen fertilizer and their interaction on vegetative growth, ionic content and some organic matter of sweet pepper.

5. An ecological and physiological study on a Halotolerant algae *Dunaliella salina* Teodoresco in Basrah.
6. Effect of garlic extract (*Allium sativum* L.) on the inhibition of growth of rhizospheric and roots associated fungi of some plants.
7. Effect of cultivates, planting methods and planting date on the vegetative growth, flowering and fruiting of tomato plant in desert region / Basrah.
8. Evaluation of history course for the students of the second stage of Biology Department on the student's point of view.
9. The effect of heavy metals on some physiological and biochemical characters of the fungi (*Nostoc linckia*).
10. Effect of salinity on date palm production through tissue culture techniques.
11. Studies on extra cellular products for certain microalgae.
12. The effect of plant extracts on some physiological and behavioral parameters of laboratory animals.
13. Sensitivity of some bacteria to volatile oils extracted from some plants.
14. Isolation, identification of some active compounds extracted from some plants against bacteria.
15. The effect of plant extracts on physiological parameters of experimental animals.
16. Effects of Plant Growth Regulators and Media on *in vitro* Micro-propagation of *Aloe vera*.
17. Evaluation of Phytochemical Analysis, Hypoglycemic, Antioxidant Activities of *Asturtium officinale* plants produced by Tissue Culture Techniques.
18. Effects of Foliar Application of Nutrients and Seaweed Extracts on Physiological Parameters of Cherry *Prunus avium* L.”
19. Phytochemical, Pharmacological Screening and Antimicrobial Effects of *Alcea kurdica* Native to Kurdistan Region of Iraq.

### **Journal's Editorial board**

I am a member of the Editorial board or Editorial Advisory Board of the following International Journals:

1. International Journal of Current Research in Biosciences and Plant Biology.
2. Pinnacle Biological Sciences.
3. Journal of Medical and Biological Science Research.
4. Journal of Dynamics in Microbiology and Infectious Diseases.
5. Pyrex Journals of Research in Environmental Std.
6. Pyrex Journals of Agricultural Research.
7. Pyrex Journals of Medicinal Plant Research.
8. Direct Research Journal of Agriculture and Food Science.
9. International Journal of Current Microbiology and Applied Sciences (IJCMAS)
10. International Journal of Research in Pharmacy and Biosciences.
11. Time journal of Biological Sciences and Technology.

### **International Workshops**

The following workshops (on line) were open to all faculty participants of the ULP where I participated with:

1. Presenting Your Professional Experience

2. Student Centered Learning
3. Teaching Critical Thinking Skills
4. Building your Network through Email Correspondence: Model Email Etiquette
5. Best practices for Enhancing Research and Publication
6. Motivating Students with Classroom Simulations
7. Research Grant Proposal Process

### Administrative positions

The followings are administrative posts I enrolled in:

- Supervisor for the directorate for Graduate studies / University of Basra (1986-1987).
- Supervisor for the directorate for publishing and printing / University of Basra (1991).
- Assistant Dean/ College of Education/ University of Basra (1993-1997).
- Head, Biology Department/ College of Education/ University of Basra (1997-1999).
- Dean, College of Education/ University of Basra (1999-2001).

### Computer skills:

- Word
- Power point
- Excel

### Other Scientific Activities

I have been asked to prepare and submit a proposal for creative ideas that build on and support sustainable collaboration in priority areas for Iraqi higher education and expand the impact for participating faculty and departments and my project titled "Faculty Development & Instructional Development: Promoting Effective **Learning in Classrooms**" **has been selected to receive an Iraq ULP Project Grant**. I visited the Michigan State University (September, 2014) and participated in the following activities:

#### **1. workshops**

- A. Workshop- "Moving from Effective Teacher to the Scholarship of Teaching and Learning (SoTL)" with Karl Smith (Kellogg Center, Red Cedar B)
- B. Workshop- "Introduction to Cooperative Learning" with Karl Smith (Kellogg Center, Red Cedar B)
- C. Workshop-Instructional Design & Assessing Student Learning
- D. Workshop-Best Practices in College Teaching - Active Learning
- E. Workshop-Instructional Technology introduction.
- F. Workshop- "How to Create a Productive and Engaging Writing Practice".
- G. Workshop- Faculty Learning Communities.
- H. Workshop-Evaluating Teaching.
- I. Workshop-Faculty Mentoring.
- J. Workshop-Assessing Faculty Development Programs.
- K. Workshop-Diversity & Inclusive Teaching.
- L. Workshop-assessment of Student Learning.
- M. Workshop-Faculty Development Cohort Programs.
- N. Workshop-"Exploring the Flipped Model".
- O. Workshop-American Higher education system, RP & T process, academic freedom.

## **2. Conferences**

I attended many local and international conferences.

### **Languages**

3. Arabic ; Mother language
4. English; Excellent
5. Kurdish; Fair