

CURRICULUM VITAE

Surname: Khyami – Horani هالة محمود الخيمي
Name: Hala
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Tel (00962 -6) 5523553; Mobile 00962 79 5560777
Email: horani-h@ju.edu.jo
Nationality: Jordanian
Sex: Female
Marital status: Married, three children
Present position: Professor of Microbial Biotechnology/ University of Jordan
Education: B.Sc. in Biology, Univ. of Jordan
M. Sc. Microbiology, American University of Beirut
Ph.D. Microbial Biotechnology, Herriot-Watt,
Edinburgh, Scotland, 1991
Dissertation title: Characterization and cellulase synthesis in some
thermotolerant bacilli from Jordan

FIELDS OF RESEARCH INTEREST

- Biological control of insects; pathogenicity of *Bacillus thuringiensis* and *B. sphaericus*, screening for *cry* genes; cloning of the *cry* gene; Genetic transformation of tomato plant with *cry5*
- Biodiversity of bacteria
- Bacteriocin production
- Quality criteria for reclaimed water.
- Isolation and characterization of potential biodegraders: Plant waste materials: cellulose, xylan, etc.; degradation of xenobiotic compounds: phenolic compounds, herbicides and pesticides, etc.
- Biodiversity of marine bacteria: Bacteria associated with coral reefs; antibiotic and antiviral products of marine bacteria

ADMINISTRATIVE EXPERIENCE

A. University of Jordan

Assistant Dean of Student Affairs 1982-1984

Vice Dean of Student Affairs 1995-1996

Acting Dean of Student Affairs 1996

Assistant Dean of the Faculty of Science 1997-1998

Vice Dean of the Faculty of Science February- July 2005

Dean of the faculty of Science 2005- 2009

B. Others

- **Irbid National University**-Jordan , , , 2009-present
- The Center for Women's Studies at University of Jordan, member of the board of trustees, 2006-present

- Jordanian National Forum for Women, member of the board of trustees 2007- 2009
- **General Amman Municipality**, Board member 2007- present
- Accreditation committee, Ministry of higher education, member 2007-2009

TEACHING EXPERIENCE (COURSES TAUGHT)

Undergraduate courses

General Biology; General Microbiology; Applied Microbiology, Biotechnology

Postgraduate courses

Advanced General Microbiology; Advanced Applied Microbiology; Bacteria: Structure and function; Microbial Physiology; Microbial Ecology

COMMITTEES AND ORGANIZATIONS

Member of the following organizations and committees

- A) Department level
 Department Council 1978 – present (member)
 Committee of Scientific Research in the department 1991-1993; 1996-1998; 2002-2003 (member)
 Committee of General Biology Courses 1985 -1995 (member)
 Committee of Graduate Studies 1992-1993 (member)
 Committee of Biology Department Curriculum 1992 – 1995 (member)
 Committee of Scientific Research 1996- 1998; 2001-2005(member)
 Committee of Graduate Studies 1999- 2000, 2002-2005 (member)
 Committee of Social activities 2002-2004 (head)
- B) Faculty Level
 Faculty of Science Council 1992 – 1994, 1997-1998, 2005 (member)
 Student Violation Committee 1992 – 1994 (member), 1999-200 (head)
 Social Activity Committee 1991 – 1993 (member)
 Scientific Committee 1999-2001 (member), 2005 (head)
 Curriculum Committee 2000-2002 (member); 2005(head)
 Committee of Graduate Studies 2005-2006(head)
 Appointment and Promotion Committee 2005 -2006(head)
 Faculty of Science Council (head) 2005-2009
- C) University Level
 Student Violation Committee 1995 –1996 (member); 2002- 2009(head)
 University Council 2002-2003, 2005-2009 (member)
 Biotechnology Committee- Mango Center for Scientific Research, 2003-2005 (member)
 Center of Water and Environmental Studies, 2005 (member of the board) Faculty of Higher Studies, 2005 (member of the board)
 Board of Deans' Council, 2005-present

Board of the University School 2005-2009 (member)
 Curriculum Committee 2005- 2009 (member)
 Scientific committee /Mango Center for Scientific Research 2005-2009 (member)
 Board of the Center for Scientific Research (member)
 Board of the Center for Women's Studies 2006-present (member)
 Board of the Energy Center 2006- 2009 (member)
 Board of the Center for Women's Studies 2008- 2009 (head)

D) Others

- Member of the National Jordanian Committee for Youth Year 1984-1985.
- Translator, revisor and editor of Connect UNESCO-UNEP Newsletter (ARRABITA) , Vol.XII, XIII. 1987-1988.
- Advisor for General Biology Courses / Jordanian University for Women 1991 -1993
- Technical Consulting committee / Al Albait University 1992 - 1993
- Author & Editor of Biology Text books for the First Secondary Class level in Jordan 1995-present
- Member of the general microbiology society, UK 1989- 1997
- Member of the society for invertebrate pathology, USA 1993-1995
- Member of Jordan Society of Biological Sciences 1986-present
- Member of the Royal Society for the Conservation of Nature 1998- present
- Member of Jordan's team to the meetings of the Middle East Multilateral Peace talks on environment 1996- 1999
- Member of the board of trustees and advisory committee SIGI in Jordan 1998- 2005
- Member of the Professional Jordanian National Committee for Women 1998- 2004
- Member of the professional's consulting committee for the Jordanian National Commission for women 2000-2004
- Member of the National Jordanian Committee for genetically modified food: Regulations for public safety in Jordan 2002-2005
- Head of the Scientific Committee/ Member of the advisory committee for the Second Arab Women Summit 2002-2007
- Jordanian society of genetics (Finder and member) 2002
- Member of the Jordanian official team for the Second Arab Women Summit. 2002.
- Member of the Technical committee for the evaluation of the use of protein animal feed for chicken/ Ministry of Environment.2005-2006

- Supervisor of teachers who submitted projects in order to offer them guidance and assistance throughout the projects' development.
- Member of the Intel ISEF –secondary school Judging committee 2006 in the field of biological sciences
- Head of the judging committee for Abdul Hameed Shoman Award for Science Teachers in Jordanian Elementary and Secondary School 2006-present
- Member of the judging committee for Abdul Hameed Shoman Award for Young Arab Scientists, 2006-present
- Referee in several Scientific Journals
- Chief Editor in **Advances in Biological Research**. IDOSI
- Member of editorial board of some scientific journals
 - Biosafety higher committee- ministry of Environment, member 2008-present

INVENTION-DISCOVERY

A Novel Serovar of *Bacillus thuringiensis* Ser. *jordanica* (serotype H71). Isolated from Jordan, 2003

PATENT CLAIM

Cloning cry genes from the novel Jordaian *Bacillus thuringiensis* Ser. *jordanica* (serotype H71), and developing transgenic tomato species for resistance against insects, nematodes, and fungi.

PUBLICATIONS

Khyami -Horani, H. & A. Ramadan, 1992. Birds of Jordan, Amman, Jordan

Khyami -Horani, H. & N.Dajani. 1993. A future look at the role of women in modern industry in Jordan. Regional Conference on the role of women in modern industry in the Arab World. 6-8 April. Amman- Jordan.

Khyami -Horani, H., F. G. Priest, & A. M. Mahasneh. 1993. Cellulase synthesis in some thermotolerant bacilli from Jordan. Proceedings of the second Arab conference on perspectives of Modern biotechnology. Amman, Jordan.

Khyami-Horani, H. 1993. Rural Women in the protection of the agricultural environment in Jordan. Regional Conference in Lebanon Arab Women & the Environment B.U.C, NOV. 25-27, 1993.

Khyami - Horani, H. & F. G. Priest. 1994. Thermotolerant varieties of *Bacillus licheniformis* isolated from desert environments. J. Applied Bacteriology. 77:392 - 400.

Khyami - Horani, H. 1995. Bacterial cellulases. Tenth International Conference on Global Impacts of Applied Microbiology and Biotechnology. Denmark, 6-12 August.

Khyami - Horani, H., A. M. Katbeh-Bader, and Z. H. Mohsen. 1995. Susceptibility of *Culex pipiens molestus* to standard strains of *Bacillus thuringiensis israelnsis* and *Bacillus sphaericus* in Jordan. *Dirasat*. 22: 1337-1344.

Khyami - Horani, H. 1996. Thermotolerant strain of *Bacillus licheniformis* producing lipase. *World Journal of Microbiology and Biotechnology*. 12:399-401.

Khyami - Horani, H. 1996. Purification and some properties of an alkaline cellulase from an alkalophilic *Bacillus* sp. strain HC-1. *World Journal of Microbiology and Biotechnology*. 12:525-529.

Khyami -Horani, H., A. M. Katbeh-Bader, and Z. H. Mohsen. 1996. Mosquito larvicidal toxicity of endospore- forming bacilli isolated in Jordan. *Dirasat*. 23 (2): 140-144.

Shatanawi, M., G. Nakshabandi, M. Fayyad, **H. Horani**, and M. Sakkar. 1996. Experimental Field studies on the use of As- Samra treated wastewater for irrigation in Jrodan-Phase I. *Abhath Al-Yarmouk*. 5(2): 197-221.

Khyami - Horani, H., and Al-Moghrabi, S.M. 1997. Bacterial microflora associated with corals in the Gulf of Aqaba. *International Conference on the Biology of Coastal Environments (ICBCE 97)- Bahrain*.

Al-Moghrabi, S.M., and **H. Khyami – Horani**. 1997. A follow up on the distribution of coliform bacteria along the Jordanian coastline of the Gulf of Aqaba. *Mu'tah Lil-Buhuth Wad-Dirasat (Natural & Applied Sciences Series)*. 12 (1): 221-242.

Al-Nakshabandi, G.A., M.M.Saqqar, M.R. Shatanawi, M.Fayyad, and **H. Khyami – Horani**. 1997. Some environmental problems associated with the use of treated wastewater for irrigation in Jordan. *Agricultural Water Management* . 34:81-94.

Al-Moghrabi, S.M., and **H. Khyami – Horani**. 1998. Distribution and seasonal variation of nutrients in the Gulf of Aqaba (Jordan). *Dirasat* 25 (2): 226-239.

Khyami - Horani, H., A. M. Katbeh-Bader, and Z. H. Mohsen. 1998. Mosquito larvicidal toxicity of endospore-forming Bacilli isolated from Jordan. *The Third Arab Conference on “ Modern Biotechnology and Areas of Applications in the Arab World”*. Cairo, Egypt.

Khyami - Horani, H., A. M. Katbeh-Bader, and Z. H. Mohsen. 1999. Isolation of endospore-forming bacilli toxic to *Culiseta longiareolata* (Diptera: Culicidae) in Jordan. *Letters in Applied Microbiology*. 28 (1): 57-60.

Khyami - Horani, H., and Al-Moghrabi, S.M. 1999. Bacteria associated with corals in the Gulf of Aqaba. *Al-Manarah*. 4 (2): 211-225.

Katbeh-Bader, A. M., **Khyami - Horani, H.**, and Z. H. Mohsen. 1999. Effect of temperature on the susceptibility of *Culiseta longiareolata Macquart* (Culicidae: Diptera) to two standard strains of biocontrol bacteria. *Journal of Applied entomology*. 123: 629-631.

Khyami - Horani, H. 2000. Antibiotic Activity of Heterotrophic Bacteria of Marine Origin. *The First Arab Symposium on Antimicrobial Drugs*. 20-21 April, Amman- Jordan.

Khyami - Horani, H. 2000.Characterization of protein crystals from local isolates of *Bacillus thuringiensis* and *Bacillus sphaericus*. Biotechnology in Agriculture: Present and Future.5-7 September, Amman- Jordan

Khyami - Horani, H. 2000. Isolation and characterization of bacilli toxic to insect larvae isolated in Jordan. The Seventh Arab Congress of Plant Protection. 22-26 October, Amman_ Jordan.

Khyami - Horani, H. 2000. Bacterial degradation of industrial and agricultural Pollutants in Jordan. 11-12 October, Ammann- Jordan.

Sebei, S., Ameer, C., **Khyami - Horani, H.**, and Boudabous, A. 2001. Induction de la Secretion de Nouvelles substances Inhibitrices « Bacteriocin Like » de Bacillus. 1^{er} Journées de Biotechnologie Industrielle et de L'environnement. 9-11 February, Tunis.

Sebei, S., Ameer, C., **Khyami - Horani, H.**, Karchani, S., and Boudabous, A. 2001. Détection et Caractérisation d'une Nouvelle Bactériocine de *Bacillus cereus*. XII^{emes} Journées Nationales de Biologie. SSNT. 5-7 November, Monstair

Khyami - Horani, H. 2002. Toxicity of *Bacillus thuringiensis* and *B. sphaericus* to Laboratory Populations of *Drosophila melanogaster* (Diptera: *Drosophilidae*). J. Basic Microbiology. 42(2): 105-110

Sebei, S., Ameer, C., **Khyami - Horani, H.**, and Boudabous, A. 2002. Partial Purification, Inhibitory Spectrum and Mode of Action of Cerein H77, A Novel Bacteriocin Produced by *Bacillus cereus* H77. Proceedings of International Symposium of Environmental Pollution Control and Waste Management. 7-10 January, Tunis.

Khyami - Horani, H and M. Ateyyat. 2002. Efficacy of Jordanian Isolates of *Bacillus thuringiensis* Against Citrus leafminer, *Phyllocnistis citrella* Stainton (Lepidoptera: Gracillariidae). Int. J. Pest Management. 48: 297-300.

Khyami - Horani, H. 2002. Haemolytic and mosquitocidal endotoxin activity of Jordanian strains of *Bacillus thuringiensis* and *B. sphaericus*. Dirasat, Pure Sciences. 29:235-241

Khyami - Horani, H, M Hjaij and J-F Charles. 2003. Characterization of *Bacillus thuringiensis* Ser. *jordanica* (serotype H71), A Novel Serovar Isolated in Jordan. Current Microbiology. 47:26-31

Cherif, A., S. Borin, L. Brusetti, A. Boudabous, H. **Khyami – Horani**, and D. Daffonchio. 2003. Genetic relationship in the “*Bacillus cereus* group” by rep-PCR fingerprinting and sequencing of a *Bacillus anthracis*-specific rep-PCR fragment. J. Applied Microbiology. 94: 1108-1119.

Al-Banna, L.and **Khyami - Horani, H.** 2004. Nematicidal Activity of Two Jordanian Strains of *Bacillus Thuringiensis* on Root Knot Nematodes, *Meloidogyne Incognita* & *M. Javanica*. Nematologia Mediterranea. 32:41-45

Abu-Dhaim, E., Al-Banna, L. and **Khyami - Horani, H.** 2006. Evaluation of Jordanian *Bacillus Thuringiensis* strains against *Meloidogyne species*. Jordan Journal of Agricultural Sciences. 1:49-57

Sadder, M, **H. Khyami-Horani**, and L. Al-Banna. 2006. Application of RAPD technique to study Polymorphism among Jordanian *Bacillus thuringiensis* isolates from Jordan. World Journal of Microbiology and Biotechnology. 22:1307-1312

Khyami - Horani, H, and Al-Banna, L. 2006. *Bacillus thuringiensis jordanica*: A biocontrol agent of *Meloidogyne javanica* on tomato. Phytopathologia Mediterranea. 45:153-157.

Al-Khatib, M., **H. Khyami - Horani**, E. Badran, and A. Shehabi. 2007. Incidence and characterization of diarrheal enterotoxins of fecal *Bacillus cereus* isolates associated with diarrhea. Diagnostic Microbiology and Infectious Disease. 59: 383-387.

Masoud, H, **H. Khyami-Horani**, K.Alshawabkeh. 2009. Characterization of *Salmonella* Lipopolysaccharide Isolated from Poultry Farms in Jordan. Dirasat: Pure Sciences. 1:30-37.

Obeidat, M, **H. Khyami-Horani**, and M. T. Sadder. 2009. Molecular typing of local Jordanian *Bacillus thuringiensis* Strains by RAPD-PCR. Submitted

M.SC. THESES SUPERVISED

Partial Purification and characterization of a Protease from an Alkalophilic *Bacillus*-like bacterium. 1994

Isolation and Serological Characterization of *Listeria monocytogenes* from Chickens in Jordan. 1995

Bacterial Degradation of Some Phenols in Waste Water of Detergent Factories in Jordan. 1996

Isolation and Characterization of 2,4-D Dichlorophenoxyacetic Acid (2,4-D)- Degrading Bacteria from the Jordanian Environment. 1998

Characterization of Protein Crystals from Local Toxic Isolates of *Bacillus thuringiensis* and *Bacillus sphaericus*. 1999

Isolation and Characterization of Bacteria that can grow on Tomato Pomace Produce Fiber Hydrolytic Enzymes. 2001

Microbial Contamination of Waterlines Used in Dental Units in Jordan. 2003

Prevalence of enterotoxigenic and enterohaemorrhagic *Escherichia coli* genotypes in water and stool isolates from Jordan using multiplex PCR. 2004

Prevalence of enterotoxigenic *Bacillus cereus* isolates in stool from Jordan using PCR. 2005

Ph.D. THESES SUPERVISED

Molecular typing of local *Bacillus thurengiensis* strains and determination of their proposal crystal proteins cytotoxicity against cancer cells, 2007.

Biochemical and genetic characterization of the bacteriocins produced by *Bacillus cereus* and *Bacillus thurengiensis* isolates, 2008.

Serotype and antimicrobial susceptibility of *Streptococcus pneumoniae* isolated from healthy children in Amman, Jordan, 2008.

Isolation and identification of bioactive compounds from marine *Streptomyces* from the Gulf of Aqaba, 2009

Ph.D. THESES / EXAMINATION COMMITTEE MEMBER

Availability and Distribution of Pathogens Resistant to certain Antibiotics in Marine Environment in Lathikia, Syria. 1998

The Inhibitory Effect Of Selected Plants Extracts On Growth And Enterotoxin Produced By *Clostridium perfringens*. 2003

In vitro studies of the effect of fermented dairy product containing probiotics and nutraceuticals on different characteristics of intestinal microflora. 2003

M.Sc. THESES / EXAMINATION COMMITTEE MEMBER

Isolation and Characterization of Extremely Halophilic Bacteria from the Dead sea. 1992

A Study of the Microbial Quality of a Sample of Hoummos B'theneh (Chickpea Dip) Produced in Jordan. 1992

Antibacterial activity of Some Quinolines and Third Generation Cephalosporins Against Gram- Negative Rods Obtained from Three main Hospitals in Jordan. 1993

Isolation and Genotyping Modification of Bacterial Strains Producing Extracellular Proteases. 1996

The use of Sorbate and Benzoate Salts to Inhibit the Growth of Yeasts in Labaneh. 1996

Isolation and Genotypic Modification of Bacterial strains Producing Extracellular Proteases. 1996

Isolation and Genotypic Modification of Bacterial strains Producing Extracellular Pectinase. 1997

Anaerobic Digestion of the Organic Fraction in Solid Wastes of the Greater Amman Municipality. 1998

Common Pathogens in Municipal Wastewater treatment plants. 1998

A Study of the Use of Yeasts in the Production of Fermented Cucumbers. 1998

A study of the Halophilic Bacteria of Nabulsi Cheese, and their Effect on the Quality of the Product. 1998

Incidence of *Candida albicans* in Feces patients and its Ability to Produce Proteinase Enzyme. 1999

Turnover of Egg White Proteins with Special Reference to Lysozyme during embryogenesis. 2000

The Utilization of the Polymerase Chain Reaction for the Detection of Genes Coding for Aminoglycosidase Modifying Enzymes in Bacteria of Clinical Isolates from Jordan University Hospital. 2000

Epidemiological study of *Pseudomonas aeruginosa* Isolates by Serotyping, PCR, and Antimicrobial Susceptibility Methods. 2002

PCR Amplification of *mecA* Gene in Clinical and Nasal Isolates of *Staphylococcus aureus* from Amman/Jordan. 2002

Genotypes of *Helicobacter pylori* prevalent among Jordanian patients with gastritis. 2004

Member of Comprehensive Exam Committee For Ph. D. Students In Biology, 2001,2003,2004

Member of Comprehensive Exam Committee For Ms.C Students In Biology, 1999, 2000, 2001, 2002,2003

MANUSCRIPTS IN PREPARATION

Bacillus : Antagonism and active biomolecules
Cloning cry genes from local strains of *Bacillus thuringiensis*

WORKSHOPS AND SEMINARS (in the last years)

Violence Against Children And Women 1999

Promotion and Protection of Human Rights in Jordan. 2000

Microorganism as Biological Indicators for Water Quality 2001

Characterization and Analysis of Biological Parameters for Drinking Water 2001, 2003

Nobel Laureates, Petra conference 2006; 2008

FIELDS OF RESEARCH INTEREST

- Entomopathogenic bacteria in Jordan: Biological control of insects; pathogenicity of *Bacillus thuringiensis* and *B. sphaericus*.
- Biodiversity of bacteria
- *Bacillus*: Antagonism and active biomolecules; Bacteriocin production
- Quality criteria for reclaimed water.
- Isolation and characterization of potential biodegraders: Plant waste materials: cellulose, xylan, etc.; degradation of xenobiotic compounds: phenolic compounds, herbicides and pesticides, etc.
- Biodiversity of marine bacteria: Bacteria associated with coral reefs; antibiotic and inhibitory compounds produced by marine bacteria

TECHNIQUES USED

- Analysis of bacterial proteins by SDS Polyacrylamide Gel Electrophoresis
- Use of ELISA kits for detection of pathogens and in identification
- Preparation of bacterial genomic DNA and plasmids
- Determination of restriction patterns of total DNA, and Plasmid profiles
- Identification of genes using PCR techniques
- Isolation and identification of bacteria

Product purity control, and Quality control

الدكتورة هالة محمود الخيمي

السيرة الذاتية

المركز الحالي

- عضو مجلس أمناء جامعة اربد الخاصة 2009- الوقت الحالي
- أستاذ في تقنيات الأحياء الدقيقة في قسم العلوم الحياتية
- عضو في مجلس أمانة عمان الكبرى
- عضو في المجلس الأعلى لتجمع لجان المرأة في الأردن

الشهادات العلمية

- دكتوراه في التقنيات الحيوية- ادنبرة في بريطانيا 1991 .
- ماجستير أحياء دقيقة- الجامعة الأمريكية ببيروت .
- بكالوريوس علوم حياتية- الجامعة الاردنية .

الخبرات الإدارية في الجامعة الأردنية

- مساعد عميد شؤون الطلبة 1995- 1996
- قائم بأعمال عميد شؤون الطلبة 1996
- مساعد عميد كلية العلوم 1997-1998
- نائب عميد كلية العلوم 2005
- عميد كلية العلوم 2005 - 2009

النشاط العلمي والمجتمعي

- 1_ المشاركة في ندوات ومؤتمرات
 - عضو الفريق الاردني في مباحثات السلام في الشرق الاوسط 1996- 1998 (لجنة البيئة) .
 - عضو الوفد الاردني الرسمي لمناقشة التقريرين الدورين الثالث والرابع للأردن حول تنفيذ احكام اتفاقية القضاء على جميع أشكال التمييز ضد المرأة- الامم المتحدة (الدورة 39) 2007 .
 - ندوات ومؤتمرات علمية متخصصة
 - مؤتمرات متخصصة في شؤون المرأة

2- اشراف على أبحاث طلبة الدراسات العليا (ماجستير ودكتوراه) .

3- عضو لجان مناقشة رسائل ماجستير ودكتوراه في كليتي العلوم والزراعة

4. نشاطات أكاديمية خارج الجامعة الأردنية

- تقييم أبحاث مقدمة للنشر في عدد من المجالات العلمية في الأردن (17)
- مستشارة لتأسيس العلوم الحياتية في جامعة البنات الأهلية (البترا)

- عضو اللجنة الفنية لتأسيس مختبرات جامعة آل البيت
- تحليل عينات مياه محطة زي خلال فترة أزمة تلوث مياه الشرب 1998
- مستشار لبعض المشاريع التابعة لمركز بحوث المياه
- عضو في لجان متخصصة في وزارة البيئة

5- عضوية لجان في الجامعة الأردنية

- مقرر اللجنة الفنية لوحدة التقنيات الحيوية- مركز حمدي منكو للبحوث العلمية 2000-2002.
- عضو في مجلس المحطة البحرية في العقبة 2005- الى الوقت الحاضر
- عضو في مجلس مركز المياه والبيئة 2005 .
- عضو في مجلس كلية الدراسات العليا 2005 .
- عضو مجلس الجامعة 2002-2005، 2003- الى الوقت الحاضر
- مقرر لجنة التحقيق في مخالفات الطلبة 2003- الى الوقت الحاضر
- عضو مجلس العمداء 2005- الى الوقت الحاضر
- عضو مجلس المدرسة النموذجية 2005- الى الوقت الحاضر
- عضو لجنة الخطة في الجامعة 2005- الى الوقت الحاضر
- عضو مجلس مركز حمدي منكو للبحوث العلمية 2005- الى الوقت الحاضر .
- عضو مجلس مركز المرأة في الجامعة الاردنية 2006- الى الوقت الحاضر .
- عضو مجلس مركز الطاقة في الجامعة الاردنية 2006- الى الوقت الحاضر .

6- الإشراف على دورات تدريبية

7- المشاركة في ورشات عمل ومؤتمرات تخص المرأة والبيئة

8- عضوية منظمات وجمعيات

- الجمعية العمومية للأحياء الدقيقة في بريطانيا
- جمعية أمراض الالفقاريات في الولايات المتحدة
- الجمعية الأردنية للعلوم الحياتية
- جمعية حماية الطبيعة في الأردن
- اللجنة الاستشارية لمركز أمان في الأردن
- مجلس أمناء منظمة SIGI في الأردن
- اللجنة التحضيرية للاعداد لمؤتمر القمة الثاني للمرأة ومقرر اللجنة العلمية (عمان تشرين ثاني 2002)
- اللجنة الفنية التابعة للجنة الوطنية لشؤون المرأة
- الصندوق الاردني الهاشمي - اللجنة الوطنية للمرأة .

9- براءات الاختراع

- تسجيل اكتشاف نوع مصلي جديد من بكتيريا *Bacillus thuringiensis* القاتل للحشرات و الديدان الممرضة في الأردن.

10- التآلف والبجوث العلمفة .
(مرفق)