



**Address:**  
Amman- Om Othaina  
P. O. Box: 141127  
Amman -11814- Jordan

**Phone:** (00 962 6) 5535754  
**Mobile:** (00 962 79) 579 2277  
**E-Mail:** nivinalami@hotmail.com

---

## **Nivin I. Al-Alami**

---

### **Personal Information**

Marital Status: Married  
Nationality: Jordanian  
Date of Birth: June 25, 1963  
Place of Birth: Gaza – Palestine

### **Summary of Experience**

#### **☐ September 1987 – Up to Date**

**The University of Jordan  
Water and Environment Research and Study Center  
Amman – Jordan**

#### **Job Title: Microbiology Laboratory Supervisor/Researcher**

- Microbiological and Chemical Analysis of Water.
- Preparation of Manuals and Courses / Biological Analysis and Water Safety.
- Conducting Training Courses with Reference to Water and Environment.
- Drinking Water Safety Consultant.
- Microbiology Lab. Supervisor for the Project Titled “Water Skills Enhancement and Information to Decision – Makers in Jordan’s Water Sector”.
- Evaluation of Microbiological Methods used for Water Analysis.

#### **☐ September 1989 - June 1990**

**English School  
Amman – Jordan  
Job Title: Biology Laboratory Supervisor**

#### **☐ November 1986 - September 1987**

**Al- Khadra Medical Laboratories  
Jeddah – Kingdom of Saudi Arabia  
Job Title: Medical Analyst**

- Examination of Medical Samples with Reference to Hematology Analysis, Urine Analysis, Stool Analysis and Blood Chemistry.
- Microbiological and Bio/Chemical Analysis as well as other Routine Medical tests.

---

□ **July 1985 - September 1986**

The University of Jordan  
Department of Biology/Faculty of Science  
Amman - Jordan

Job Title: Research Assistant

□ **June 1984 - June 1985**

Consulting Medical Laboratories  
Amman - Jordan

Job Title: Medical Analyst

- Hematology Analysis, Urine Analysis, Stool Analysis and Blood Chemistry.
- Microbiological and Bio/Chemical Analysis as well as other Routine Medical tests.

**Education**

**1- Ph.D. Degree (Doctor of Philosophy) Biological Sciences.  
Faculty of Sciences**

The University of Jordan, Amman- Jordan (2015)

Ph.D. Dissertation: "ZAI WATER TREATMENT PLANT: MICROBIAL RISK ASSESSMENT AND MANAGEMENT FROM SOURCE TO WATER EFFLUENT, JORDAN"

**2- M.Sc. Degree in Environmental Sciences and Management  
Faculty of Graduate Studies**

The University of Jordan, Amman – Jordan (2003)

Average: 3.5 out of 4.00, Rating (Very Good)

M.Sc. Thesis: "Microbial Contamination of Waterline in Dental Units"

**3- B.Sc. Degree in Biological/Medical Analysis**

Dept. of Biology

Faculty of Science

The University of Jordan, Amman – Jordan (1984)

Average: 70.8%

**4- General Secondary Study Certificate, Kingdom of Saudi Arabia  
Science Stream. (1980)**

Average: 95.5 %

**Microbiological  
Skills**

- Detection and Identification of Pathogenic Microorganisms in Food and Water Using Novel Rapid Techniques such as Real-Time PCR, ELIZA, and other Classical Micro methods.
- Monitoring Environmental Microbial Quality in Hospitals, Health Care Centers, and Laboratories.

- Quality Assurance in the Microbiology Laboratories and Accreditation Procedures.
- Courses and Training Programs Preparation in the Fields of Microbiological and Water Analysis.

## **Research Projects**

- The effect of Khirbet As-Samra effluent on the water quality of Wadi Dhuleil and Zarka River/Jordan, 1988.
- Treated wastewater reuse in Agriculture: Queen Alia International Airport, 1989.
- Water Quality of Swimming pools in the Amman Area, 1990.
- Water Quality of Dams in Jordan, 1992.
- Purification and Reuse of Domestic Wastewater using Low Cost Eco-Biotechnological Methods, 1995.
- Development of Technological Simple, Low Energy Cost Method for Treating Wastewater for Reuse in Agriculture, 1995.
- Quality of Irrigation Water in the Middle Jordan Valley, 1996.
- Effect of Kufranja wastewater Treatment Plant on Water Resources in Kufranja Basin, 1997.
- Development of Cost-Effective Reclamation for Domestic Wastewater and Appropriate Agricultural Use of Treated Effluent Under Semi-arid Climate Conditions, 1999.
- Skills Enhancement and Support to Decision-Makers in Jordan's Water Sector, March 2000.
- Zara and Zarqa Ma'in Spring Study, March 2000.
- Fate of Disinfectants and Their Byproducts in Amman's Water Distribution System, November 2000.

## **Research Interests**

- Identification of Microorganisms using 16S rRNA Real-Time PCR Technique
- Developing Rapid Procedures and Methods for Detection and Identification of Microorganisms in Water.
- Detection and Identification of Opportunistic Pathogens in Hospitals and Health care Centers (*Legionella* spp., *Pseudomonas* spp., and *Acinetobacter* spp.).
- Detection and Identification of Opportunistic Pathogens in Hotels (*Legionella* spp., and *Pseudomonas* spp.)
- Studying the Effect of Chlorine against Waterborne Pathogens. Recovery, Survival, and Inactivation of *Campylobacter* spp. in Food and Water.

## Training Workshops

- مؤتمر "مشروع منظومه الطاقه والمياه" فندق كراون بلازا-عمان ، ٢ كانون الاول ٢٠١٥  
(Eco Peace Middle East)
- "WATER SAFETY PLANS AUDIT LEARNING SESSION" on October 18th, 2015 at King Hussein Bin Talal Convention Center Amman-Jordan.
- Cost-Effective Pollution Prevention. USAID/JORDAN. Kempinski Hotel, May 5th, 2015
- Root Cause Analysis Session Program. USAID/JORDAN. WEEC, The University of Jordan. February 26, 2015.
- Regional Workshop on “biosafety, biosecurity, and biorisk management. Knowledge development and transfer of best practices” project. Amman, the Hashemite Kingdom of Jordan, January 12-13, 2015. Royal Scientific Society (RSS)
- Regional Workshop on “biosafety, biosecurity, and biorisk management. Knowledge development and transfer of best practices” project. Amman, the Hashemite Kingdom of Jordan, 5th – 6th May, 2014. Royal Scientific Society (RSS)
- Expanding Access to Sanitation for Unsewered Communities in Morocco and Jordan. 28-30 January 2014, Marrakech, Morocco
- Water quality: Monitoring, Assessment, and management. Aqaba Special Economic Zone Authority. Aqaba- Jordan 18th-19th November 2013-10-2013
- Technical training on Water reuse and environmental conservation project meeting the ISO/IEC 17025:2005. Amman Jordan at Water, Energy, and Environment Center (WEEC) 30th September-2nd October 2013.
- Training course on Auditing of a management system meeting the ISO/IEC 17025:2005. A project was funded by USAID. Amman Jordan 4th -6th December 2011
- Training course on Documentation of a management system meeting the ISO/IEC 17025:2005. A project was funded by USAID. Amman Jordan 25th -29th September 2011
- مؤتمر التعاون الأردني الأوروبي في مجال التعليم العالي ، كلية الهندسة ، الجامعة الأردنية/  
عمان(الأردن) ٢٠١١/١١/١

▪ ورشة عمل الخبراء "الأمراض المنقولة بالماء والغذاء وعلاقتها بالتغيرات المناخية" (Water Food- Borne Diseases and Climate Change) بالتعاون مع منظمة الصحة العالمية ووزارة الصحة، عمان (الأردن) ٢٠١١/٩/١٨

▪ مؤتمر حول تقرير الاهداف الانمائية للألفية لمحافظة الزرقاء بالتعاون مع برنامج الأمم المتحدة (UNDP)، عمان (الأردن) ٢٠١١/٧/٢٨

- Workshop on Basic Course on Water Quality Testing  
Water and Environment Research and Study Center,  
The University of Jordan, May 16, 2010
- Training program and Endotoxin Detection on Endosafe® PTS system that provides quantitative LAL test results. January 24th-28th 2010. Dubai, United Arab Emirates.
  - VIII Workshop on Rapid Methods and Automation in Food Microbiology. (MRAMA), (Rapid Microbiology) In Barcelona, Spain from 24th to 27th November 2009.
- Assessing and Co-Supervising the Achievement of ISO 17025 Requirements for Laboratory Accreditation by Jordan Food and Drug Administration-Ministry of Health (Microbiological Laboratories). This Project was funded by European Community and Conducted with the Help of Two Professors from Washington State University (Dr. Barbara Rasco) and Michigan State University (Dr. Gleynd Bledsoe).

## Funded Research

- Deanship of Academic Research at the University of Jordan.  
Project Title: "Detection, Identification and Quantification of *Giardia* and *Cryptosporidium* in Yarmouk River and King Abdullah Canal"
- Deanship of Academic Research at the University of Jordan.  
Project Title: "Detection and Identification of *Alicyclobacillus* spp. and the Study of the Relation of Their Growth with the Production of Taint Chemicals in Pasteurized Fruit Juices".

## Publications Refereed Journals

- Ovissipour, M., Al-Qadiri, H., Sablani, S., Govindan, B., **Al-Alami, N.**, and Rasco, B. (2015). Efficacy of acidic and alkaline electrolyzed water for inactivating *Escherichia coli* O104:H4, *Listeria monocytogenes*, *Campylobacter jejuni*, *Aeromonas hydrophila*, and *Vibrio parahaemolyticus* in cell suspensions. Food Control. 53: 117-123

- Al-Qadiri, H., Sablani, S., Ovissipour, M., Al-Alami, N., Govindan, B., and Rasco, B. (2015). Effect of Oxygen Stress on Growth and Survival of *Clostridium perfringens*, *Campylobacter jejuni*, and *Listeria monocytogenes* under Different Storage Conditions. Journal of Food Protection. In Press.
- 
- Lu, X., Liu, Q., Wu, D., Al-Qadiri, H.M., **Al-Alami, N.I.**, Kang, D-H., Shin, J-H, Tang, J., Jabal, J., Aston, E. and Rasco, B.A. (2011). Using of Infrared Spectroscopy to Study the Survival and Injury of *Escherichia coli* O157:H7, *Campylobacter jejuni* and *Pseudomonas aeruginosa* Under Cold Stress in Low Nutrient Media. Food Microbiology. 28: 537-546.
- 
- Al-Qadiri, H.M., Lu, X., **Al-Alami, N.I.** and Rasco, B.A. (2011). Survival of *Escherichia coli* O157:H7 and *Campylobacter jejuni* in Bottled Purified Drinking Water under Different Storage Conditions. Journal of Food Protection. 74: 254-260.
- 
- Al-Qadiri, H.M., **Al-Alami, N.I.**, Al-Holy, M.A. and Rasco, B.A. (2008). Using Fourier Transform Infrared (FT-IR) Absorbance Spectroscopy and Multivariate Analysis to Study the Effect of Chlorine-Induced Bacterial Injury in Water. Journal of Agriculture and Food Chemistry. 56: 8992-8997.
- 
- Al-Qadiri, H.M., Alami, N.I., Al-Holy, M.A., Lin, M., Cavinato, A.G. and Rasco, B.A. (2008). Studying of the bacterial growth phases using Fourier transform infrared (FT-IR) spectroscopy and multivariate analysis. Journal of Rapid Methods and Automation in Microbiology. 16: 73-89.
- 
- Halalsheh, M., Abu Ghunmi, L., **Al-Alami, N.**, and Fayyad, M. (2008). Fate of pathogens in tomato plants and soil irrigated with secondary treated wastewater. Efficient Management of Wastewater, Earth and Environmental Science. 81-89.
- 
- Al-Qadiri, H.M., Al-Holy, M.A., Lin, M., **Alami, N.I.** and Rasco, B.A. (2006). Rapid detection and identification of *Pseudomonas aeruginosa*, and *Escherichia coli* as pure and mixed cultures in bottled drinking water using Fourier transform infrared spectroscopy (FT-IR) and multivariate analysis. Journal of Agriculture and Food Chemistry. 54: 5749-5754.
-

- Manual of Water Analysis. 1990. Water Research and Study Center. The University of Jordan

### **Professional Membership**

Jordan Society For Biological Sciences.

### **Languages**

- English: Reading, Writing, and Conversation Fluently
- Arabic: Mother Tongue

### **Research Activities**

- Actively Cooperating with Research Groups at Washington State University in the Fields of water and Environmental Microbiology.
- Cooperation with Faculty Members at the Jordan University of Science and Technology and the Hashemite University in the Fields of water Microbiology.

### **Computer Skills**

- Microsoft Office, Internet, Research, and Typing.

### **References**

- Dr. Halah Al. Khaimi, The University of Jordan.
- Dr. Manar Fayyad, The University of Jordan.
- Dr. Elias Salameh, The University of Jordan.