

Curriculum Vitae

Manar Atoum
Professor

PERSONAL DATA

Name : Manar Fayiz Atoum
Date of Birth : January 3, 1966
Nationality : Jordanian
Marital status : Married with four children
Address : Department of Medical Laboratory Sciences
The Hashemite University
Zarka, Jordan
Tel (office): 00962-5-3903333 ext 5351
Tel (home): 00962-2-7020666
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ORCID ID: <https://orcid.org/0000-0003-0625-862X>

EDUCATION

Ph.D. Molecular Genetics,

1996, University of Guelph, Canada.

Thesis Title: Transgenic and Biochemical Analysis of Manganese Superoxide Dismutase and Reactive Oxygen Metabolism in Drosophila melanogaster.

M.Sc. Microbiology,

1991, Yarmouk University, Jordan.

Thesis Title: Female Urinary Tract Infections with Special Emphasis on Virulence Factors of Eschericia coli

B.Sc. with honour Medical Technology,

1988, Jordan University of Science and Technology, Jordan.

AWARDS AND SCHOLARSHIPS

(Canada, 1993-1996)

Doug and Esther Ormrod Scholarships for Parents

(Canada, 1996)

University Graduate Scholarship

(Canada, 1996)

Ministry of Education Scholarship

(Jordan, 1983-1988)

Swedish International Development Agency

(Jordan 2007-2009)

PROFESSIONAL EXPERIENCE

a. Undergraduate Courses:

General Biology I and II, Human Genetics, Molecular Biology, Cell Biology Cytogenetics, Biochemistry, Microbiology training for medical technology students, clinical chemistry training for medical technology student, Seminar, Quality control

b. Graduate Courses:

Advanced Human genetics, Advanced Molecular Genetics, Advanced cytogenetics and Advanced Gene therapy

c. Practical Courses:

Human genetics and Molecular Biology. Biochemistry, Clinical chemistry

d. Supervision of Medical Laboratory Student during their training in hospitals

This involve follow up medical technology students during their training period, evaluation and examining them at the end of the training period

e. Supervision of Graduate students:

1. Co-advisor to "Omran Hussein Al-Dasouqui", M.Sc. student, Department of Medical Laboratory Sciences, Jordan university of Science And Technology. Title of the thesis: **Screening Mutations in the Low Density Lipoprotein Receptor Gene Responsible for Familial Hypercholesterolemia in Jordanian Patients**. Day of Defence: July 2003. Principle supervisor: Dr. Mohamed Nusier, Department of Medical Laboratory Sciences, Jordan university of Science And Technology.

2. Committee Member: to "Tasneem Al-Quadan", M.Sc. student, Medical School, Microbiology Department, Medical Lab Sciences section, Jordan University. Title of Thesis: **Detection of Chromosomal Translocation t14-18 in Follicular Lymphoma in Jordan by Polymerase Chain Reaction**. Day of defence: August 2005. Principle supervisor: Dr. Said Ismail, Department of Biological Sciences, Jordan University.

3. Committee Member: to "Nadia Saleh Nemer", M.Sc. student, Science School, Applied Biology Department, Jordan University of Science and Technology. Title of Thesis: **Polymorphism of Glutathione-S-Transferase Gene and Susceptibility to Lung and Breast Cancer in Jordan**. Day of defence: July 2005. Principle supervisor: Dr. Amjad Mahasneh, Department of Applied Biology, Jordan University of Science and Technology.
4. Committee Member: to "Lara Mamoun Abbasi", M.Sc student, Department of Pharmaceutical Sciences, Jordan University. Title of Thesis: **The Utilization of the Polymerase Chain Reaction for the Detection of Genes Coding for Aminoglycoside Modyfying Enzymes in Bacteria of Clinical Isolates from Jordan University**. Day of defence: May 2000. Principle supervisor: Amal Shervington.
5. Committee Member: to "Samar Rajeh Al-khassawneh", M.Sc. student, Science School, Medical Laboratory Sciences, Jordan University of Science and Technology. Title of thesis: **CYP1A1, GSTMM1 and GSTT1 polymorphisms and susceptibility to prostate and bladder cancers in Jordan**. Day of defence: December 2005. Principle supervisor: Dr. Amjad Mahasneh, Department of Applied Biology, Jordan University of Science and Technology
6. Committee Member: to "Shahed Al-Zinati", M.Sc. student, Medical Laboratory Sciences, Jordan University of Science and Technology. Title of thesis: **Polymorphisms of CYP1A1 and glutathione S transferase genes in Jordanian colon cancer patients**. Day of defence: July 2006. Principle supervisor: Dr. Amjad Mahasneh, Department of Medical Laboratory Sciences, Jordan University of Science and Technology
7. Committee Member: to "Hana'a Manna'a", M.Sc. student, Science School, Applied Biology, Jordan University of Science and Technology. Title of thesis: **Polymorphisms of CYP P450 1A1 and CYP2E1 genes and the susceptibility to lung and breast cancer in Jordan**. Day of defence: July 2006. Principle supervisor: Dr. Amjad Mahasneh, Department of Applied Biology, Jordan University of Science and Technology
8. Committee Member: to "Dana Al-Hattab", M.Sc. student, Medical Laboratory Sciences, Jordan University of Science and Technology. Title of thesis: **The frequency of Human leukocyte antigen Alleles DQA10501-DQB1 0201 Genotype among Jordanian celiac Disease patients and their first degree relatives**. Day of defence: January 2007. Principle supervisor: Dr. Zeyad El-Akawi, Department of Medical Laboratory Sciences, Jordan University of Science and Technology
9. Committee Member: to "Lama Abdul-Kareem Abu- Jamous", M.Sc. student,

Science School, Applied Biology, Jordan University of Science and Technology. Title of thesis: **Screening for mutations in exons 5,6,7 and 8 in PTEN gene in Jordanian patients with Astrocytoma.** Day of defence: Jan 2007. Principle supervisor: Dr.Saied Jaradat, Department of Applied Biology, Jordan University of Science and Technology

10. Committee Member: to "Ahmed Saleh Mansour", M.Sc. student, Medical Laboratory Sciences, Jordan University of Science and Technology. Title of thesis: **Association of Celiac disease with CTLA4+49 A/G and TNF α -308 G/A polymorphism in Jordanian patients.** Day of defence: Dec 2007. Principle supervisor: Dr.Zeyad J El-Akawi, Department of Medical LaboratorySciences, Jordan University of Science and Technology

11. Committee Member: to "Hafez Hezam Ahmed Alsumairy", M.Sc. student, Medical Laboratory Sciences, Jordan University of Science and Technology. Title of thesis: **Molecular Comparison Between Staphylococcus Aureus Enterotoxigenic (SES) Strains Isolated from Food And Those Isolated From Clinical Specimens in Jordan.** Day of defence: May 2009. Principle supervisor: Dr.Raymond G Batchoun, Department of Medical Laboratory Sciences, Jordan University of Science and Technology

12. Committee Member: to "Aseel Ismail Al-Sha'er", M.Sc. student, Medical Laboratory Sciences, Jordan University of Science and Technology. Title of thesis: **Molecular Identification of BACILLUS CEREUS Toxigenic Strains Isolated from Food and Those Isolated from Clinical Specimens in Jordan.** Day of defence: May 2009. Principle supervisor: Dr. Raymond G Batchoun, Department of Medical Laboratory Sciences, Jordan University of Science and Technology.

13. Committee Member: to "Hala Adnan Samara", M.Sc. student, Medical Laboratory Sciences, Jordan University of Science and Technology. Title of thesis: **Molecular Characterization of Multi Drug Resistant MYCOBACTERIUM TUBERCULOSIS.** Day of defence: Jan 2009. Principle supervisor: Dr. Laila F Nimri, Department of Medical Laboratory Sciences, Jordan University of Science and Technology

14. Co-Supervisor to "Malak Sofyan Abdel-Fattah", M.Sc. student, Department of Biological Sciences, Hashemite University. Title of the thesis: **BIOCHEMICAL Activity and Genetic Polymorphism of Manganese Superoxiad Dismutase (MnSOD) Among Breast Cancer Females in Jordan.** Day of Defence: May 2009. Principle supervisor: Dr. Salim Abederrahman, Department of Biological Sciences, Hashemite University

15. Committee Member: to "Yazun Bashir Jarrar", M.Sc. student, Department of

pharmacology, University of Jordan. Title of the thesis: **N-acetyltransferase 2(NAT2) genotype frequency among unrelated Jordanian volunteers**. Day of Defence: July 2009. Principle supervisor: Dr.Yacoub Irshaid, Department of pharmacology, University of Jordan.

16. Committee Member: to "Eman Ahmed Bani Hani", M.Sc. student, Department of Applied Biological Sciences, Jordan University of Science and Technology. Title of the thesis: **The role of serotonergic genes variants in postpartum depression in Jordan**. Day of Defence: January 2010. Principle supervisor: Dr.Omar Khabour, Department of Applied Biological Sciences, Jordan University of Science and Technology

17. Committee Member: to "Yousif mohammed Alhammadi", M.Sc. student, Department Toxicology forensic Sciences, Jordan University of Science and Technology. Title of the thesis: **Exploring the relationship between the expression of the inducible nitric synthase (INOS) and heat shock protein (HSP27) in the brain of rats with inducible diabetes**. Day of Defence: January 2010. Principle supervisor: Dr.Mohammad deeb Ahmed Al-Jarrah, Department Toxicology forensic Sciences, Jordan University of Science and Technology

18. Committee Member: to "Aáesha Mohammad Qasem", M.Sc. student, Department Toxicology forensic Sciences, Jordan University of Science and Technology. Title of the thesis: **Exploring the biological role of each of p53 and p16 in sputum samples and their relation in lung cancer**. Day of Defence: June 2010. Principle supervisor: Dr.Ali Shouter, Department Toxicology forensic Sciences, Jordan University of Science and Technology

19. Committee Member: to "Muna Kamal Oukal", M.Sc student, Department of Pharmacology, Jordan University. Title of Thesis: **N-acetytransferase 2 genotype frequency among patients with rheumatoid arthritis attending Jordan hospital rheumatology clinic**. Day of defence: May 2010. Principle supervisor: Yacoub Irshaid. Department of pharmacology, Jordan University.

20. Committee Member: to "Yousef Sami Jarun", M.Sc student, Department of Applied Biological Sciences, Jordan University of science and Technology. Title of Thesis: **Genetic association studies of the NALPI gene and HFE gene in autoimmune thyroid disease in the Jordanian population**. Day of defence: August 2011. Principle supervisor :Dr Asem M Alkateeb, Jordan University of Science and technology .

21. Committee Member: to "Hala Hamdan Obisat", M.Sc student, Department of Forensic and Toxicology Science, Jordan University of science and Technology. Title of Thesis: **Mitochondrial Genome Variation among Jordanian Bedouins**

Population. Day of defence: December 2011. Principle supervisor: Dr Saied Jaradat, Jordan University of Science and technology.

22. Committee Member: to "Ala'a Arab Arafat", M.Sc student, Department of Biological Sciences, Hashemite University. Title of Thesis: **The Prevalence of FV (G1691A), prothrombin (G20210A) and methylenetetrahydrofolate reductase (MTHFR, C677T) mutations in Circassian population in Jordan.** Day of defence: May 2012. Principle supervisor: Dr Rana Al-Dajani, Hashemite University.

23. Committee Member: to "Nideen Nidal Salameh", M.Sc student, Department of Applied Biological Sciences, Jordan University of Science and Technology. Title of Thesis: **Screening for Tyrosinase Mutations among Oculocutaneous type 1 Albino patients in Jordan.** Day of defence: May 2012. Principle supervisor: Dr Saied Jaradat, Jordan University of Science and Technology.

24. Committee Member: to "Hanadi Marzouq Tbeishat", M.Sc student, Department of Applied Biological Sciences, Jordan University of Science and Technology. Title of Thesis: **CFTR mutational analysis and protein expression in patients with cystic fibrosis in a Jordanian population.** Day of defence: July 2012. Principle supervisor: Dr Saied Jaradat, Jordan University of Science and Technology

25. Supervisor: to "Reem Qasem Tanashat", M.Sc student, Department of Medical laboratory Sciences, Hashemite University. Title of Thesis: **Association of some major histocompatibility complex class II alleles with breast cancer among Jordanian females.** Day of defence: April 2013. Principle supervisor: Dr Manar Atoum

26. Committee Member to "Asia Numan Abu-Ayyad", M.Sc student, Department of Medical laboratory Sciences, Hashemite University. Title of Thesis: **Effect of amygdalin (vitamin B17) on breast cancer cells: biochemical effect on glutathione level and lipid peroxidation.** Day of defence: 7, July, 2013. Principle supervisor: Dr Muayad Abboud

27. Supervisor: to "Melya Tchoporyan", M.Sc student, Department of Medical laboratory Sciences, Hashemite University. Title of Thesis: **Association between circulating vitamin D, vitamin D receptor gene polymorphisms and colorectal cancer risk among Jordanians.** Day of defence: 11, November, 2013.

28. Committee Member: to "Lama Hani Abu -Rumuh", M.Sc student, Department of Applied Biological Sciences, Jordan University of Science and Technology. Title of Thesis: **Association between adiponectin gene variants with low back pain among Jordanian population.** Day of defence: January, 2014. Principle supervisor: Dr Omer Khabour, Jordan University of Science and Technology

29. Supervisor: to "Melya N Tchoporyan", M.Sc student, Department of Medical laboratory Sciences, Hashemite University. Title of Thesis: **Association between circulating vitamin D, vitamin D receptor gene polymorphisms and colorectal cancer among Jordanians**. Day of defence: January 2014. Principle supervisor: Dr Manar Atoum

30. Coadvisor of "Taghreed Khalid Almuharib" M.Sc student, Department of Medical laboratory Sciences, Jordan University of Science and Technology. Title of Thesis: **Detection of p53 gene mutations in *Helicobacter pylori* infected patients with gastric cancer**. Day of defence: March 17, 2014. Principle supervisor: Dr Suhaliah Shboul, Jordan University of Science and Technology

31. Committee Member: to "Doa'a Mohammed Al Younis", M.Sc student, Department of Applied Biological Sciences, Jordan University of Science and Technology. Title of Thesis: **Single nucleotide polymorphisms variation of mitochondrial genome among Jordanian population**. Day of defence: June 2014. Principle supervisor: Dr Saied Jaradat, Jordan University of Science and Technology

32. Committee Member: to "Sarah Othman Shoter", M.Sc student, Department of Applied Biological Sciences, Jordan University of Science and Technology. Title of Thesis: **Single nucleotide polymorphisms variation of the mitochondrial genome among ethnic Jordanian groups: forensic application**. Day of defence: August 2014. Principle supervisor: Dr Saied Jaradat, Jordan University of Science and Technology

33. Supervisor: to "Yasmeen Mohammad Al-Khatib", M.Sc student, Department of Medical laboratory Sciences, Hashemite University. Title of Thesis: **Association between 25-hydroxyvitamin D concentration, Taq1 vitamin D receptor gene polymorphisms and breast cancer among Jordanian females**. Day of defence: January 2015. Principle supervisor: Dr Manar Atoum

34. Supervisor: to "Dena Mohammad Al-Khatib", M.Sc student, Department of Medical laboratory Sciences, Hashemite University. Title of Thesis: **Association between Fok1 vitamin D receptor gene polymorphisms and prostate cancer among Jordanian males**. Day of defence: January 2015. Principle supervisor: Dr Manar Atoum

35. Committee Member: to "Doa'a Mohammed Al Younis", M.Sc student, Department of Applied Biological Sciences, Jordan University of Science and Technology. Title of Thesis: **Single nucleotide polymorphisms variation of mitochondrial genome among Jordanian population**. Day of defence: June 2014.

Principle supervisor: Dr Saied Jaradat, Jordan University of Science and Technology

36. Committee Member to "Rawan Ahmed Elmadhoun", M.Sc student, Department of Medical laboratory Sciences, Hashemite University. Title of Thesis: **The association between atopic dermatitis and leptin gene polymorphisms**. Day of defence: Dec 2015. Principle supervisor: Dr Saleem Banihani

37. Committee Member to "Khawala Fathi Abu Alia", M.Sc student, Department of Medical laboratory Sciences, Hashemite University. Title of Thesis: **Association between Resistin gene polymorphism and atopic dermatitis**. Day of defence: Jan 2016. Principle supervisor: Dr Saleem Banihani

38. Supervisor: to "Ruba Jamal Khalil Saleh ", M.Sc student, Department of Medical laboratory Sciences, Hashemite University. Title of Thesis: **The relationship between the concentration of interleukin 10(IL-10) among Jordanian breast cancer females**. Day of defence: November 2015. Principle supervisor: Dr Manar Atoum

39. Committee Member to "Mohammed Saad Alharbi", M.Sc student, Department of Medical laboratory Sciences, Hashemite University. Title of Thesis: **Association between diponectin gene polymorphism and atrial fibrillation**. Day of defence: May 2016. Principle supervisor: Dr Mahmoud Alomari

40. Committee Member to "Hiba Alaa Eldin Khartabil", M.Sc student, Department of Medical laboratory Sciences, Jordan University of Science and Technology. Title of Thesis: **Evaluation of Tempol for life span enhancing activity: Genetic and molecular approaches**. Day of defence: May 2016. Principle supervisor: Dr Saleem bani Hani

41. Supervisor: to "Arwa Yousef Al-Aqeel", M.Sc student, Department of Medical laboratory Sciences, Hashemite University. Title of Thesis: **Association between prolactin -1149G/T gene polymorphism, anti-CCP antibodies and rheumatoid arthritis among Jordanians**. Day of defence: 5th April 2016. Principle supervisor: Dr Manar Atoum

42. Committee Member to "Futoon Abedabuh Falah Al-Rawashdeh", M.Sc student, Department of Medical laboratory Sciences, Hashemite University. Title of Thesis: **Study of oxidative stress in human asthma**. Day of defence: 22 March 2016. Principle supervisor: Prof Muayed Mehdi Abboud

43. Co-Supervisor to " Ala'a Abdel Hamaid Ayyad Alparrey", M.Sc. student, Department of Biological Sciences, Hashemite University. Title of the thesis:

Polymorphisms of Leptin (-2548 G/A) and Leptin Receptor (Q223R) Genes among Jordanian Breast Cancer Females. Day of Defence: 19 Oct 2016. Principle supervisor: Dr. Salim Abederrahman, Department of Biological Sciences, Hashemite University

44. Supervisor: to "Bilal Rabah Qasim Abdulmawjood ", M.Sc student, Department of Medical laboratory Sciences, Hashemite University. Title of Thesis: **Biochemical and XCRR1 gene polymorphism as risk factors for lung cancer among Jordanian patients.** Day of defence: 6 Dec 2016. Principle supervisor: Dr Manar Atoum

45. Committee Member to "Lubna Muhammed Najjar Tinawi", M.Sc student, Department of Medical laboratory Sciences, Hashemite University. Title of Thesis: **Study the impact of inflammatory markers (high sensitivityC reactive protein(hs-CRP) and sialic acid (SA) on Diabetes.** Day of defence: 20 Dec 2016. Principle supervisor: Prof Muayed Mehdi Abboud

46. Committee Member to "Rasha Ziad Salamat", M.Sc student, Department of Applied Biological Sciences, Jordan University of Science and Technology. Title of Thesis: **The association of dopaminergic gene single nucleotide polymorphism (SNP) and stuttering among Jordanians .** Day of defence: Jan 2017. Principle supervisor: Dr Firas Alfawaress

47. Supervisor: to "Aseel Qasem Mohammad Abu Shaqra ", M.Sc student, Department of Medical laboratory Sciences, Hashemite University. Title of Thesis: **Gene markers relatedness or diversity and antibiotic susceptibility of bacterial etiologic agents recovered from an intensive care unit patients .** Day of defence: 11 April 2017. Principle supervisor: Dr Manar Atoum

48. Committee Member to "Fawaz Al-shaheri", M.Sc student, Department of Medical laboratory Sciences, Jordan University of Science and Technology. Title of Thesis: **Prevalence and characterization of germline mutations in MUTYH among patients with colorectal adenoma in Jordan .** Day of defence: 27 April 2017. Principle supervisor: Dr Amjad Mahasneh

49. Committee Member to "Yaser Shawqi Al-Qaisi", M.Sc student, Department of Medical laboratory Sciences, Jordan University of Science and Technology. Title of Thesis: **Serum levels of dopamine and brain derived neurotrophic factors in patients with parkinsons disease pre and post transcranial bdirect current stimulation .** Day of defence: August 2017. Principle supervisor: Dr Hikmat Hadoush

50. Committee Member to "Haneen Ababneh", M.Sc student, Department of Medical laboratory Sciences, Jordan University of Science and Technology. Title of Thesis: **Mutational analysis of the phenylalanine hydroxylase gene (PAH) in phenylketonuria (PKU) patients from Jordan.** Day of defence: 11 Jan 2018. Principle supervisor: Dr Amjad Mahasneh
51. Committee Member to "Farah AlShami", M.Sc student, Department Applied Biological Sciences, Jordan University of Science and Technology. Title of Thesis: **Evaluation of metal oxide nanoparticles and their effect on Real polymerase reaction.** Day of defence: 11 Jan 2018. Principle supervisor: Dr Ruba Khnouf
52. Supervisor: to "Aya Sulieman Mustafa", M.Sc student, Department of Medical laboratory Sciences, Hashemite University. Title of Thesis: The in vivo molecular - immunomodulatory effect of Moxifloxacin in Balb c mice. Day of defence: 28 Dec 2017. Principle supervisor: Dr Manar Atoum
53. Committee Member to "Mohammed Tabouni", M.Sc student, Department of Applied Biological Sciences, Jordan University of Science and Technology. Title of Thesis: Promoter methylation of APC, CDKN2A, MLH1 and PTEN genes in patients with colorectal cancer in Jordan. Day of defence: 14 May, 2018. Principle supervisor: Dr Amjad Mahasneh
54. Committee Member to "Bushra Khaled Al-Qudah", M.Sc student, Department of Applied Biological Sciences, Jordan University of Science and Technology. Title of Thesis: Screening of the proto-oncogene BRAF mutations among Jordanian Thyroid cancer patients. Day of defence: 14 May, 2018. Principle supervisor: Dr Amjad Mahasneh
55. Committee Member to "Ahmad Saleh Khattab", M.Sc student, Medical Laboratory Sciences department, Hashemite University. Title of Thesis: Effects of Citrus Lemon leaves extract on blood glucose and lipid profile in alloxan monohydrate induced diabetic rats. Day of defence: 25, April 2018. Principle supervisor: Dr Raed Halalsheh
56. Supervisor: to "Aya Mohammed Azzam Altaylouni", M.Sc student, Department of Medical laboratory Sciences, Hashemite University. Title of Thesis: The association between rs7903146 polymorphism at the transcription factor 7-like gene that regulates insulin and glucagon among type 2 diabetes mellitus patients. Day of defence: 10 July 2018. Principle supervisor: Dr Manar Atoum.
57. Supervisor: to "Mai Mahmoud Alajlouni", M.Sc student, Department of Medical laboratory Sciences, Hashemite University. Title of Thesis: Association between

luteinizing hormone receptor gene polymorphism (rs2293275) and polycystic ovarian syndrome. Day of defence: 10 July 2018. Principle supervisor: Dr Manar Atoum.

58. Supervisor: to "Qatada Rashed Shahwan", M.Sc student, Department of Medical laboratory Sciences, Hashemite University. Title of Thesis: Genetic identification of methicillin-resistant *Staphylococcus aureus* in diabetic foot ulcers among diabetic patients . Day of defence: 5 March 2019. Principle supervisor: Dr Manar Atoum.

59. Committee Member to "Farah Farhan Alsukhni", M.Sc student, Department of Medical laboratory Sciences, Jordan University of Science and Technology. Title of Thesis: The effect of statin on oncogenic m-RNAs in haematological malignancies. Day of defence: 8 May 2019. Principle supervisor: Dr Mahmoud H Ayesh

EXPERIENCE AND SKILLS

Dean of Scientific Research: Sep 2017 till now

Dean of Allied health sciences: Sep 2008- 2011

Assistant Dean for Allied Health sciences 2002-2003

Chair for Medical laboratory Sciences department

Full professor:

2013- Hashemite University, Department of Medical Laboratory Sciences,
Zarqa, Jordan

Associated professor:

2007-20012 Hashemite University, Department of Medical Laboratory
Sciences, Zarqa, Jordan

Assistant professor:

1999 -2007 Hashemite University, Department of Medical Laboratory
Sciences, Zarqa, Jordan.

Lecturer:

97- 99 Jordan University of Science and Technology; Department of
Applied Biology and Department of Medical Technology, Irbid,
Jordan.

Research & Training:

(July 99 till now, Hashemite University)

Conducting research and training projects: breast cancer mutation analysis,

mutagenicity, antimutagenicity screening and genetic polymorphism.

(Feb.-July 99, Jordan University of Science and Technology)

Conducting research and training project: Human karyotyping and toxicology research.

(June-Sept. 98, University of Guelph)

Conduct advanced research in plasmid construction and transformation at laboratories of the Department of Molecular biology and Genetics, University of Guelph.

RESEARCH GRANTS

1. Mutation analysis of the cancer gene BRCA1 in some Jordanian families with history of breast cancer. **Principle investigator**. The project is funded from Hashemite University Deanship for Scientific Research. Total fund awarded 15,500 JD; 2000-2002.
2. Biological activity of seed endogenous chemical constituent of some Asteraceae and Chenopodiaceae plant species on germination, seedling development and mutagenicity. **Co-investigator**. The project is funded from Hashemite University Deanship for Scientific Research. Total fund awarded 4050 JD; 2002-2004.
3. Effect of Ramadan fasting on body weight, blood glucose, serum lipids and food consumption patterns in the Hashemite University. **Principle investigator**
The project is funded from Hashemite University Deanship for Scientific Research. Total fund awarded 1000 JD; 2005.
4. Isolation and characterization of thermotolerant Bacteriophages from hot springs water in Jordan. **Co-investigator**. The project is funded from Hashemite University Deanship for Scientific Research. Total fund awarded 13880 JD; 2000-2004.
5. Evaluation some endocrinological, immunohistopathological and nutritional features of breast cancer females in Jordan. **Co-investigator**. The project is funded from Hashemite University Deanship for Scientific Research. Total fund awarded 6100 JD; 2005.
6. Prevalence and pathogenesis of Cryptosporidium in children and pregnant women in northern of Jordan phase 1. **Co-investigator**. The project is funded from Hashemite University Deanship for Scientific Research. Total fund awarded 4300 JD; 2005

7. Prevalence and associated risk factors of Diabetes mellitus in Jordan. **Co-investigator**. The project is funded from SIDA. Total fund awarded 60,000 USA dollars.
8. Application and molecular genotyping for the characterization and intervention of Lishmaniasis in Jordan. **Co-investigator**. The project is funded from Hashemite University Deanship for Scientific Research. Total fund awarded 13000 JD; 2008
9. Association between MnSOD biochemical activity and polymorphism and risk of breast, ovarian, prostate, lung, colon, colorectal, bladder, and hepatocellular carcinoma in Jordan. **Principle investigator**. The project is funded from Hashemite University Deanship for Scientific Research. Total fund awarded 5700 JD; 2009.
10. Ischemia modified albumin in Thalassemia patients, association of genotyping and iron status. **Co-investigator**. The project is funded from Hashemite University Deanship for Scientific Research. Total fund awarded 99+0 JD; 2010.
11. Correlation of serum vitamin D, biochemical bone markers levels, vitamin D gene polymorphism and their relationship between osteoarthritis and rheumatoid arthritis patients in Jordan. **Principle investigator**. The project is funded from Hashemite University Deanship for Scientific Research. Total fund awarded 13800 JD; 2011.
12. Association of Interleukin -10 gene polymorphism with TNM staging and grade among breast cancer Jordanian females. **Principle investigator**. The project is funded from Hashemite University Deanship for Scientific Research. Total fund awarded 10000 JD; 2013.
13. Association gene polymorphism of alpha estrogen receptor gene among Jordanian breast cancer females. **Principle investigator**. The project is funded from Hashemite University Deanship for Scientific Research. Total fund awarded 8500 JD; 2014
14. Studying antitumor activity of vitamin D combined with B12 in vitro by testing their effects in human breast cancer cell line (MCF-7). **Principle investigator**. The project is funded from Hashemite University Deanship for Scientific Research. Total fund awarded 43700 JD; 2016.
15. The relationship between gene polymorphism of vitamin D receptor and vitamin D level between metabolic syndrome and type 2 diabetes. Principle investigator. The project is funded from Hashemite University Deanship for Scientific Research. Total fund awarded 15200 JD; 2018.
16. Program technical focal point for UNICEF WASH Innovation Hub at the Hashemite university totally funded 503,000JOD (2019-2021)

Editor

Jordan Journal of Biological Sciences (2019 till now)

Reviewer

Reviewer at International Medical Case Reports Journal (2014)

Reviewer at American Journal of molecular Biology (2015)

Reviewer at Jacobs Journal of Genetics (2015)

Reviewer at Journal of Clinical Pathology (2015)

Reviewer at Oncology targets and therapy (2015)

Reviewer at Research and Reports in endocrine Disorders (2015)

Reviewer at Womens Health International (2016)

Reviewer at Pathology: research and practice (2016)

Reviewer at Journal of Obstetrics and gynaecology (2016)

Reviewer at Journal of Clinical laboratory Analysis (2017)

Reviewer at Archives in Medical Sciences (2017)

Reviewer at Frontiers Physiology (2018)

Editor

Editorial Board

Jacobs Journal of Genetics (2015-till now)

CONFERENCES and WORKSHOPS

- Global Experts Meeting on Infectious Diseases, September 03-04, 2018 Tokyo, Japan
- 2nd international oncologist and diagnostic conference, 28-30 August 2017, Brussels, Belgium
- World congress and Expo on applied Microbiology 18-20 August 2015, Frankfurt, Germany
- 32 World congresses of Internal Medicine, Oct 24-28, 2014, COEX, Korea
- 8th Conference on global health and vaccination research, Bergen, Norway 16-18 October 2013
- 15th International Congress of Immunology, Milan, Italy 22-27 August 2013
- International association of cancer registries conference, Cork, Ireland 17-19 September 2012
- IPOS international congress, Antalya, Turkey 16-20 October 2011
- International congress on pre-diabetes and metabolic syndrome, Madrid, Spain, 6-9 April 2011
- MWIA international congress Munster, Germany 27-31 July 2010
- 10th World Congress of Psycho-oncology and psychoacademy (IPOS) Madrid, Spain 9-13

June 2008

- Organizer for Polymerase Chain reaction workshop, Hashemite University May 26-29 2008
- Arab Women in Academic Sciences and Technology: towards sustainable development. Irbid May 2008
- British Sliverson high shear mixer workshop. Amman (Grand Hayyat Amman) 7 may 2008
- AACR: Advances in cancer research from the Lab to clinic. March16-19. King Hussein Bin Talal Convention Center. Dead Sea, Jordan
- KHCBI-NCI-Duke University, Middle East and North Africa Cancer research conference, Amman 3-4 Sep 2007
- Attending Real time PCR application seminar for Dr. Tommase Mancuso, Amman, March 2005
- On-Line-Learning workshop. Hashemite University, March-June 2005.
- Workshop on HTML, FrontPage and WebServers, Hashemite University, 2003
- The fourth world conference in breast cancer. Victoria, Canada. June 4-8, 2002.
- Training workshop for better teaching, Hashemite University Campus, 2000
- Attending advanced training workshop in Decode system for mutation Screening, Italy, March 2001.
- Annual *Drosophila* Conference. Sandiogo, California. April 27-29, 1996.
- The 5th World Congress on Genetics Applied to Livestock production. University of Guelph, Guelph, Canada. August 7-12, 1994.

Publications

1. Yousef Mohammad and **Atoum Manar**. (1997) Female urinary tract infections in northern Jordan. *Abhath Al-yarmouk*. 6(1), pp 57-66.
2. Akel Hazem and **Atoum, Manar**. (2002). Genetics polymorphism by RAPD-PCR and phenotypic characteristics of isolated thermotolerant *Bacillus* strains from hot spring sources. *Microbiologica* 26:249-256.
3. **Atoum Manar**, Akel Hazem and Battikhi Mohammed. (2003) Comparison of PCR disc diffusion methods in detecting methicillin resistance among *Staphylococcus species* from nosocomial infections. *Saudi Medical Journal* 24(12):1410-1412.
4. **Atoum Manar** and Al-Kayed Sameer. (2004). Mutational analysis of the breast cancer gene *BRCA1* among breast cancer Jordanian females. *Saudi Medical Journal* 25(1): 60-63.
5. **Atoum Manar** and Al_Hourani Huda. (2004) Comparison of some risk factors

between non familial and familial breast cancer females in Jordan. Saudi Medical Journal 25(2) 168-171.

6. Awadallah Samir and **Atoum Manar** (2004) Haptoglobin polymorphism in breast cancer patients in Jordan. Clinica Chimica Acta 341: 17-21.

7. **Atoum M** and Al-Hourani HudA (2004) Lifestyle related risk factors for breast cancer in Jordanian females. Saudi Medical Journal 25(9):1245-1249.

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