



Curriculum Vitae
Omar F. Khabour
Professor, Department of Medical Laboratory Sciences,
Faculty of Applied Medical Sciences,
Jordan University of Science and Technology
Irbid 221100, Jordan

PERSONAL

Citizenship: Jordan
Permanent Address: Jordan University of Science and Technology
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EDUCATION:

2001-2005 PhD Molecular Biology, University of Houston, Houston, Texas
1993-1996 MSc Genetics, Yarmouk University, Irbid, Jordan
1987-1991 BSc Biology, Yarmouk University, Irbid, Jordan

ACADEMIC AND PROFESSIONAL APPOINTMENTS:

2016- Present Professor of Molecular Genetics, Department of Medical Laboratory Sciences, Faculty of Applied Medical Sciences, Jordan University of Sciences and Technology.

2016-2018 Professor of Molecular Genetics, Department of Medical Laboratory, Faculty of Applied Medical Sciences, Taibah University, Madinah, Saudi Arabia

2011-2015 Associate Professor of Molecular Genetics, Department of Medical Laboratory Sciences, Faculty of Applied Medical Sciences Jordan University of Sciences and Technology

2006-2011	Assistant Professor of Molecular Genetics, Department of Medical Laboratory Sciences, Faculty of Applied Medical Sciences Jordan University of Sciences and Technology
2011-2014	Vice Dean, Faculty of Applied Medical Sciences Jordan University of Sciences and Technology
2008-2010	Chairman, Department of Medical Laboratory Sciences, Faculty of Applied Medical Sciences Jordan University of Sciences and Technology
2007-2009	Assistant Dean, Faculty of Applied Medical Sciences Jordan University of Sciences and Technology
2001- 2005	Teaching Assistant (Genetic course: BIOL 3301) and Research Assistant (Eskin's Lab), University of Houston, Houston, Texas.
1996- 2000	Research Assistant in Genetic Lab/ Dr. May Sadiq, Yarmouk University, Irbid, Jordan
1997-1998	Graduate Diploma in Methods of Teaching Sciences, Yarmouk University, Faculty of Education, Irbid, Jordan

RESEARCH INTERESTS:

My research interest aims at

- 1- Identification of genetic and environmental factors that increase the risk to chronic diseases such as cancer, diabetes, and hypertension among Jordanian population.
- 2- Identification of causes of human genetic disease.
- 3- The effect of certain lifestyles such as diet, exercise and smoking on mutation rates, oxidative stress, and integrity of the genome.
- 4- Management of genotoxicity associated with therapeutic drugs.
- 5- Responsible conduct of research and bioethics.
- 6- Effects of tobacco smoking on human health.

My research team involves several graduate students and research assistants. I also collaborate with researchers from USA, Jordan, UAE, Lebanon, Spain, Qatar, Saudi Arabia and others.

WORKSHOPS AND TRAINING COURSES ATTENDED:

- Patency, Law and Ethics. Organized by Jordan University of Science and Technology, Irbid, Jordan, 2023.
- Ethics of artificial intelligence. Organized by RCR Education Program in Jordan, offered using online plate forms, 2023.
- C.V. Ethics. Organized by RCR Education Program in Jordan, offered using online plate forms, 2023.
- Environmental Risk Assessment. Offered by Geo Hub For Climate and Health in the MENA, 2022.
- Hybrid e-learning, Organized by Jordan University of Science and Technology, Irbid, Jordan, 2021.
- Quality control and quality assurance, Organized by Taibah University, Faculty of Applied Medical Sciences, May, 2019.
- Blackboard and e- learning. Organized by Taibah University, Faculty of Applied Medical Sciences, November, 2018.
- Awareness of Clinical studies in Saudi Arabia. Organized by Madinah Health Directorate, March, 2017.
- Advancing Genomic Applications to better understanding Disease. Organized by Illumina, October 23, 2013, Boston, USA.
- Implementation and Clinical Utility of Genomic Applications. Organized by Illumina, October 24, 2013, Boston, USA.
- Towards strengthen tobacco dependence treatment in EMR: Addressing FCTC's article 14. Organized by King Hussein Cancer Center. November 11-13, Amman, Jordan.
- Next-Generation Sequencing - Implications for the Clinical Lab offered by Illumina, Moscone Center, November 8th 2012, San Francisco, CA, USA.
- PhenX Toolkit Workshop offered by NIH, Marriott Hotel, November 7th 2012, San Francisco, CA, USA.
- Working with High- Throughput Data and Data Visualization offered by American Society of Human Genetics, Moscone Center, November 9th 2012, San Francisco, CA, USA.

- Toward Middle East Genomics Center, offered by Los Alamos National Laboratory and Princes Haya Biotechnology Center, March 2012, Jordan University of Science and Technology Irbid, Jordan.
- Tobacco Dependence Treatment: Global Experience and Regional Perspective, offered by the King Hussein Cancer Center, the Syrian center for tobacco studies and Jordan University of Science and Technology. Amman, Jordan, 27-30, June 2011.
- Statistical Package for Social Sciences (SPSS), The Academic Development Centre, Jordan University of Science and Technology, Irbid, Jordan, 23-24 January 2011.
- Framework convention on tobacco control (FCTC) policies and their implementations in Arab countries: offered by the Faculty of Health Sciences and The Syrian center for tobacco studies. Beirut, Lebanon, June 28-July 1, 2010.
- Qualitative Research Methods Versus Quantitative Surveys Pertaining to Waterpipe Smoking: offered by experts from the Department of Psychology at Virginia Commonwealth University (VCU), Virginia, USA and American University of Beirut, Beirut, Lebanon, at the Jordan University of Science and Technology, Irbid, Jordan 25-26, November-2009
- Protecting human research participants offered by the National Institute of Health (NIH, USA) office of extramural research, June 2009.
- Re-Shaping a Final Year Assessment: Grading and Training Issues, offered by the Academic Development Center for Science and Technology at the Jordan university of Science and Technology 29 July 2007.
- Qualitative and Ethnographic Research Methods for MEDCHAMPS work package 5 (WP5) Venue: offered by Peter Phillimore and Shahahduz Zaman, Newcastle University, UK, at Aleppo University, Syria, 3-11 October 2009
- Developing and Implementing Quality Assurance, offered by The British Council In association with the Jordan University of Science and Technology and the Higher Education Policy Institute-UK, Amman, Jordan, 7-10 January 2008
- E-learning and WebCT, offered by the Consultative Center for Science and Technology at the Jordan university of Science and Technology 10-13 July 2006.
- Testing and Evaluation of University Exams, offered by the Academic Development Center for Science and Technology at the Jordan university of Science and Technology 15-17 November 2005.
- The Safe Use of Radioactive Materials, offered by the Safety and Risk Management Department, University of Houston, Houston, Texas, USA. 04-05 June 2002.

COMMITTEES AND SERVICES

- Member of Editorial board, Taibah Journal of Medical Sciences, Taibah, Saudi Arabia, 2017-present.
- Member of the University Research Committee, Jordan University of Science and Technology, 2021-2023.
- Member of the Graduate Studies Committee, Department of Medical laboratory sciences, Jordan University of Science and Technology, 2019- 2023.
- Chairman of Research Committee, Department of Medical laboratory sciences, Jordan University of Science and Technology, 2019-2021.
- Director of Research and Ethics Committee, Faculty of Applied Medical Sciences, Taibah University, 2018-2019.
- Director of Master Program Development Committee, Department of Medical Laboratory Technicians, Taibah University, 2018-2019.
- Member of Research Ethics Committee, Faculty of Applied Medical Sciences, Taibah University, 2016-2018.
- Member of student projects committee, Faculty of Applied Medical Sciences, Taibah University, 2016-2019.
- Member of the Genetic Center Committee, Taibah University, 2017-2019.
- Editorial board member, HIV and AIDS Research Journal, 2017-2021.
- Coordinator of Clinical Training programs for Medical Laboratory students at Royal Medical city and Al-Ashrafieh Hospitals (2008/2009; 2009/2010), and at King Abdulla University Hospital (2011/2012).
- Member in the Faculty of Applied Medical Sciences council, Jordan University of Science and Technology (2011/2012; 2012/2013, 2013/2014)
- Web site administrative officer, The Faculty of Applied Medical Sciences, major job is to develop, write, and update the website for the Faculty (2007/2008).
- Representative of the Faculty of Applied Medical Sciences in the Faculty of Graduate Studies Committee, Jordan University of Science and Technology (2007/2008, 2009/2010).

- Member, Institutional Review Board, Jordan University of Science and Technology/King Abdulla University Hospital (2013/2014).
- Member, Graduate Studies Committee, The Faculty of Applied Medical Sciences (2007/2008; 2011-2013)
- Member, Scientific Research Committee, The Faculty of Applied Medical Sciences (2007/2008, 2008/2009, 2009/2010, Chairman 2010/2011, 2011-present).
- Member, Library Committee, The Faculty of Applied Medical Sciences (2008/2009).
- Chairman of The Faculty Tender Committee, The Faculty of Applied Medical Sciences (2008/2009, 2011/2012).
- Chairman of The Faculty Research committee, The Faculty of Applied Medical Sciences (2011/2012; 2013/2014).
- Chairman of The Faculty Course Equivalent Committee, The Faculty of Applied Medical Sciences (2011/2012, 2012/2013, 2013/2014).

Community Services

- Chairman of Accreditation Committee of the Medical Laboratory BSc. Program at Jadara University, Ministry of Higher Education, 2020.
- Member of the Accreditation Committee of the Medical Laboratory BSc. Program at Hashemite University, Ministry of Higher Education, 2010.
- Mentor in Fort Bend Independent School District mentoring program, Houston, Texas, January-June 2005
- Leader of Laboratory team that participated in the free medical day, organized by Der-Abu-Saeed district in February 13, 2010
- Member of Laboratory team that participated in the free medical day, organized by Al-Albeit Foundation in Al-Ramtha, March, 2012

Reviewing services

Reviewing for peer-reviewed Journals

- Molecular and Experimental Human Toxicology
- Molecular Biology Reports
- International Journal of Immunogenetics
- Tobacco Control

- Toxicology Reports
- Substance Use
- BioMed Research International
- Journal of Traditional and Complementary Medicine
- International Journal of Clinical Practice
- Frontiers in Genetics
- Therapeutics and Clinical Risk Management
- Journal of Multidisciplinary Health Care
- Frontiers in Neuroscience
- Frontiers in Infectious Diseases
- Biomedicine & Pharmacotherapy
- Disease Markers
- Ecotoxicology and Environmental Safety
- Microvascular Research
- Cancer Management and Research
- Journal of Affective Disorders
- Physiotherapy Theory and Practice
- Pulmonary Pharmacology & Therapeutics
- Molecules
- Critical Care Research and Practice
- Frontiers in Chemistry
- Jordan Medical Journal
- The Journal of Nutritional Biochemistry
- Archives of Biochemistry and Biophysics
- Annals of Biological Sciences
- Journal of Functional Foods
- Journal of Academic Ethics
- Journal of Preventive Medicine and Public Health
- Current Trends in Immunology
- Frontiers Pharmacology
- Archives of Medical Research
- Experimental Neurology
- Frontiers in Medicine
- Saudi Medical Journal
- Annals of Saudi medicine
- Saudi Journal of Biological Sciences
- Cytokine
- Helyion
- Life Sciences
- Work
- Informatics Medicine Unlocked
- Behavioral Brain Research
- PloS-One
- Taibah Journal of Medical Sciences
- International Journal of Nutrition and Metabolism
- African Journal of Biotechnology

- Journal of Reproductive Medicine
- Jordan Journal of Biological Sciences
- Rejuvenation Research
- British Medical Journal
- Arabian Journal of Chemistry
- Mediterranean Journal of Chemistry
- Annals of Medical and Health Sciences Research
- Nutritional Neuroscience
- The Anatolian Journal of Cardiology
- BMC Medical Genomics
- SAGE Open
- Journal of Infection and Public Health
- Turkish Journal of Biochemistry
- Clinical Immunology
- Journal of Oral Biology
- Psychology Research and Behavior Management
- Journal of Clinical and Investigative Dermatology
- European Journal of Pharmacology
- Tobacco Induced diseases
- Saudi Pharmaceutical Journal
- Gene
- Gene Reports
- Journal of infection
- International Journal of Behavioral Medicine
- Mutation Research
- Nicotine and Tobacco Research
- North American Journal of Medical Sciences
- Jordan Medical Journal

Reviewing services for Research fund agencies and academic programs

- Jordanian Ministry of Higher Education/Scientific Research Support Fund grants
- Palestinian Ministry of Higher Education/Scientific Research Council Fund grants
- Palestinian Ministry of Higher Education/ Accreditation of AlNajah University master programs in Medical Laboratory Sciences
- Evaluation of MSc program of Medical Laboratory Sciences, Umqura University, Saudi Arabia.
- The Terry Fox Foundation, Canada
- Kingdom of Saudi Arabia, Ministry of Higher Education, Research Deanship, Grant evaluation, Aljouf University
- Kingdom of Saudi Arabia, Ministry of Higher Education, Research Deanship, Grant evaluation, Jazan University
- Zarqa University, Deanship of Research.
- Qaboos University, Grant evaluation, Deanship of Research, Oman.

Academic Supervision (Master Students):

Current Students:

- Zainab Uqla
- Younis Abu-Elyan
- Samera Hemsi
- Esraa Al-Rashdan
- Sara AbuZaid

Major Advisor:

- Doua AbuSinieh, graduated in First semester 2023/2024
- Reem Alrshaid, graduated in First semester 2023/2024
- Jannat Maraqa, graduated in First semester 2023/2024
- Sally AlJarrarwah, graduated in First semester 2022/2023
- Lina Mustafa, graduated in First semester 2022/2023
- Razan Saleh, graduated in First semester 2022/2023
- Khloud Alqouran, graduated in First semester 2021/2022
- Sahar Makhlof, graduated in Summer 2021/2022
- Muntaha Alkhadour, graduated in Summer 2020/2021
- Eman Hindawi, graduated in Second Semester 2020/2021
- Alaa Malkawi, graduated in Summer 2020/2021
- Waed Telfah, graduated in Summer 2020/2021
- Zaid Akoub, graduated in Second semester 2019/2020
- Ashar Mohammed Alsaby, 2016/2017
- Bashir Maikano, Graduate in first semester 2014/2015
- Asma Abu-Obeid, Graduate in first semester 2012/2013
- Hosam El-laham, Graduate in summer semester 2012/2013
- Lama Abu Rumeh, Graduate in first semester 2013/2014
- Fatima Enayeh, Graduate in first semester 2013/2014
- Rana Shbat, Graduate in summer semester 2013/2014
- Thakaa, Alomoosh, Graduate in first semester 2013/2014
- Tuqa H. Abu Thiab, Graduate in summer semester 2013/2014
- Munir Gorba, Graduate in summer semester 2013/2014
- Nisreen Hammash, graduated in first semester 2010/2011
- Laila Abu-Hwaleh, graduated in second semester 2009/2010
- Suha Wehabi, graduated in first semester 2010/2011
- AbedAlfattah Fararjeh, graduated in second semester 2011/2012
- Akram Alazam, graduated in second semester 2011/2012
- Essa Saed Abdelhalim, graduated in first semester 2008/2009
- Ola-Sudah, graduated in first semester 2008/2009.
- Ahmed Abdel-karim Abu Siniyeh, graduated in first semester 2008/2009
- Eyman Bani-Hani, graduated in first semester 2009/2010
- Jameel Mohammed Bakr Barnawi: graduated in summer, 2007/2008.

Co-Advisor:

- Samah Ahmed Hussein 2018/2019
- Reham Alsary, 2018/2019
- Johina Al-Jammal, graduated in first semester, 2012/2013
- Mohammed Saleh, graduated in first semester, 2012/2013
- Aya Jabr, graduated in first semester, 2012/2013
- Eyman Harahsheh, graduated in summer semester 2012/2013
- Amal Bawaneh, graduated in second semester 2012/2013
- Rawan Abu Atieh, graduated in second semester 2013/2014
- Deneez Tawalbeh, graduated in first semester 2011/2012
- Mais Ghanma, graduated in first semester 2010/2011
- Khalil Abu-Zaiedeh, graduated in second semester 2011/2012
- Ruba Abed-Aljawad, graduated in second semester 2010/2011
- Bara Abu-Rashed, graduated in first semester 2010/2011
- Heba Salah, graduated in summer semester 2010/2011
- Noor Tashtoush, graduated in second semester 2010/2011
- Manal Khader, graduated in first semester 2010/2011
- Aseel Ismail Al-Sha'er, graduated in second semester 2008/2009
- Sajideh Bataineh, graduated in first semester 2009/2010
- Enas Al-Satary, graduated in summer 2008/2009
- Osama Al-Shugran, graduated in second semester 2009/2010
- Enayat Ahmad Al-Qudah, graduated in second semester 2007/2008
- Hafez Hezam Alsumairy, graduated in second semester 2008/2009
- Redha Abdullah Qahtan, graduated in second semester 2008/2009
- Rabea' Athamneh 2017/2018
- Entisar Rajeb 2015/2016

Thesis examination committee member:

- Samah Bani Hani, graduated in summer semester 2022/2023
- Rawan Al-Rushq, graduated in first semester 2022/2023
- Roa' Hashhoush, graduated in first semester 2021/2022
- Zaid AlTaany, graduated in first semester 2007/2008.
- Rania Rafiq Tuhmaz, graduated in second semester 2008/2009
- Ghada Mahmood Al-Tuweiq, graduated in first semester 2007/2008.
- Sana Mohammad Al-Ebbini, graduated in second semester 2008/2009.
- Salah Abdullah Ahmad, graduated in second semester 2008/2009
- Satanay Zuhair Hubrack, graduated in second semester 2008/2009
- Amal Hisham Uzrail, graduated in first semester 2008/2009
- Mufeed Abdualwahab Baddah, graduated in first semester 2008/2009
- Laila Saber, graduated in summer semester 2008/2009
- Fatineh Abu-Thahab, graduated in first semester 2007/2008
- Reem Mansour, graduated in second semester 2010/2011
- Noor Hussain, graduated in second semester 2010/2011
- Murad Tashtoush, graduated in second semester 2010/2011

- Mohammed Nussir, graduated in first semester 2011/2012
- Myasser Barahmeh, graduated in first semester 2011/2012
- Bayan Malkawi, graduated in second semester 2011/2012
- Maisoon Bani-Hani, graduated in second semester 2011/2012
- Heba Abbady, graduated in second semester 2011/2012
- Doa'a Mfady, graduated in first semester, 2012/2013
- Tareq I Jibril, graduated in summer semester 2012/2013
- Wissem Abdaoui, graduated in second semester 2012/2013
- Arwa A. Alberkdar, graduated in summer semester 2012/2013
- Asia Abu Ayyad, Hashimite University, graduated in summer 2012/2013

Research Support (Ongoing or Completed):

Ongoing

Title: Association of polymorphisms in PPAR-y2 and ACE(I/D) genes with obesity among adolescents and young adults in Jordan, JUST, Jordan, 2023-2024.

Title: Association of polymorphisms in NOS3 and ARG1 genes with the severity of COVID-19 disease among Jordanian patients, JUST, Jordan, 2023-2024.

Title: Genotoxicity of Cabazitaxel in Human-Cultured Lymphocytes, JUST, Jordan, 2023-2024.

Title: Development of Training Module for avoidance of predatory publishers, Arab Council For Social Sciences, Lebanon, 2023-2024.

Title: The Research Ethics Education Program in Jordan (REEP), phase 2, NIH, USA, 2021-2025.

Title: COVID-19 recovered patients' physical and mental health well-being, Ministry of Research and Higher Education, Jordan, 2022-2024.

Completed:

Title: The correlation between genetic variations in interferon-induced transmembrane protein 3 (IFITM3) and transmembrane protease serine 2 (TMPRSS2) genes with COVID-19 susceptibility and severity in Jordan, JUST, Jordan, 2022-2023

Title: Genetic A study of the FTO and ADRB2 genotypes and their effect on the risk of obesity among adolescents and young adults in Jordan, JUST, Jordan, 2021-2022

Title: Genetic Variations that Influence the Risk of Deep Vein Thrombosis (DVT) among Jordanians, JUST, Jordan, 2021-2022

Title: Supplement- The Research Ethics Education Program in Jordan (REEP), NIH, USA, 2020-2021

Title: The Research Ethics Education Program in Jordan (REEP), phase 1, NIH, USA, 2015-2020

Title: Waterpipe tobacco smoking and cancer risk biomarkers, NIH, USA, 2015-2019

Title: Pharmacogenetics of H. Pylori in Jordan, Ministry of Research and Higher Education, Jordan, 2017-2019₂

Title: Evaluating REALTIME waterpipe smoke sampling in a natural environment, NIH, USA, 2014-2016

Title: Protective effect of selected Jordanian medicinal plants extracts against cancer development, Ministry of Research and Higher Education, Jordan, 2012₂

Title: The endoplasmic reticulum (ER) stress in human colorectal cancer, Ministry of Research and Higher Education, Jordan, 2011

Title: Hair and toenail nicotine as biomarkers of actual population exposure to tobacco. San Diego State Foundation- San Diego- CA-USA, 2013

Title: The effect of genetic polymorphisms of adiponectin gene on the adverse effects profile of isotretinoin-treated acne patients. Deanship of Research, Jordan University of Science and Technology, 2013

Title: Protective effect of Tempol on DNA damage induced by Norcantharidin in human cultured lymphocytes. Deanship of Research, Jordan University of Science and Technology, 2013.

Title: Association between adiponectin gene polymorphisms and atopic dermatitis. Deanship of Research, Jordan University of Science and Technology, 2013.

Title: The effect of waterpipe smoking on heavy metal levels at major body organs in mice. Deanship of Research, Jordan University of Science and Technology, 2013.

Title: The potential of moringa peregrine for agricultural and industrial uses, Ministry of Research and Higher Education, Jordan, 2012

Title: Changes in the expression and protein level of matrix metalloproteinases after acute and chronic exposure to waterpipe tobacco smoke. Deanship of Research, Jordan University of Science and Technology, 2013.

Title: Evaluation of Enalapril antagonizing effect of hydrochlorothiazide on DNA damage in human cultured lymphocytes. Deanship of Research, Jordan University of Science and Technology, 2013.

Title: Addiction on waterpipe tobacco smoking among Jordanians: Genetic and Environmental factors. Deanship of Research, Jordan University of Science and Technology, 2012.

Title: The effect of genetic variation on choline acetyltransferase gene (Chat) on waterpipe tobacco smoking. Deanship of Research, Jordan University of Science and Technology, 2012.

Title: Association between genetic variations in adiponectin gene and low-back pain. Deanship of Research, Jordan University of Science and Technology, 2012.

Title: Evaluation of the effect of tempol on learning and memory impairment induced by sleep deprivation. Deanship of Research, Jordan University of Science and Technology, 2012.

Title: Evaluation of the effect of sildenafil on chronic psychosocial stress-induced memory impairment in rats. Deanship of Research, Jordan University of Science and Technology, 2012.

Title: The effect of waterpipe smoke exposure on learning and memory function: possible reversal by nicotine. Deanship of Research, Jordan University of Science and Technology, 2012.

Title: Evaluation of tempol effect on DNA damage induced by vorinostat. Deanship of Research, Jordan University of Science and Technology, 2012.

Title: Adiponectin and Resistin levels and BMI among Jordanian women. Deanship of Research, Jordan University of Science and Technology, 2012.

Title: Genotoxicity of structurally related shiff bases compounds. Deanship of Research, Jordan University of Science and Technology, 2011.

Title: Studying acute inflammatory effects of waterpipe smoking using real-time PCR and conventional techniques. Deanship of Research, Jordan University of Science and Technology, 2011.

Title: Association of polymorphisms of DAZL gene with male infertility in Jordanian population. Deanship of Research, Jordan University of Science and Technology, 2011.

Title: Molecular analysis of SRY gene in infertile men in Jordanian population. Deanship of Research, Jordan University of Science and Technology, 2011.

Title: Correlation between genetic polymorphisms in leptin and adiponectin and hypertension in Type-2 Diabetes. A master student thesis project, Faculty of Applied Medical Sciences, JUST, 2010.

Title: Factors associated with aspirin resistance in patients premedicated with aspirin. A master student thesis project, Faculty of Applied Medical Sciences, JUST, 2010.

Title: Association between C3434T, rs551238 and rs1617640 polymorphisms in erythropoietin (EPO) gene and upper limit haematocrit levels among regular blood donor. A master student thesis project, Faculty of Applied Medical Sciences, JUST, 2010.

Title: Genotoxicity assessment of Thalassemia minor in Jordanian patients A master student thesis project, Faculty of Applied Medical Sciences, JUST, 2010.

Title: The effects of acupressure versus physiotherapy treatment on plasma levels of Enkephalins and Endorphins in subjects with neck pain due to scalene muscles syndrome, Faculty of Applied Medical Sciences, JUST, 2010.

Title: Evaluation of the effect of pentoxifylline on sleep-deprivation induced cognitive impairment, Faculty of Applied Medical Sciences, JUST, 2010.

Title: Genetic polymorphism of RARA gene and its effect on the clinical outcomes of isotretinoin-treated acne patients, Faculty of Applied Medical Sciences, JUST, 2010.

Title: The combined effect of sleep deprivation, and high fat diet on learning and memory: possible beneficial effect for vitamin E, Faculty of Applied Medical Sciences, JUST, 2010.

Title: Evaluation of vitamin B12 and/or tempol effects on DNA damage induced by some anti-hyperglycemic drugs, Faculty of Applied Medical Sciences, JUST, 2010.

Title: Evaluation of vitamin B12 effects on DNA damage induced by some anticancer drugs, Faculty of Applied Medical Sciences, JUST, 2010.

Title: Study of the effect of pioglitazone and/or metformin on vascular dementia induced by chronic administration of L-Methionine, Faculty of Applied Medical Sciences, JUST, 2010.

Title: Waterpipe tobacco smoking: trends, toxicants, and capacity building in Jordan, NIH, USA, (1R03TW008371 – 01), 2009.

Title: Building a model for pharmacogenetic studies in Jordan, Ministry of Higher Education, Jordan, 2009.

Title: The role of genetic polymorphisms of leptin receptor gene on clinical outcomes of metformin in patients with type 2 diabetes, Deanship of Research, Jordan University of Science and Technology, 2009.

Title: Correlation between MDR1 gene polymorphisms and clinical outcomes in patients with lymphoma. A master student thesis project, Faculty of Pharmacy, JUST, 2009.

Title: The role of serotonergic genes variants in postpartum depression in Jordan, Deanship of Research, Jordan University of Science and Technology, 2009.

Title: The effect of vitamin E on the memory and learning impairment induced by sleep deprivation, Deanship of Research, Jordan University of Science and Technology, 2009.

Title: Study of the effect of pioglitazone and/or metformin on vascular dementia induced by chronic administration of L-Methionine, Deanship of Research, Jordan University of Science and Technology, 2009.

Title: Study Study of the effect of vitamin C and/or E on chronic stress-induced cognitive impairment, Deanship of Research, Jordan University of Science and Technology, 2009.

Title: Waterpipe tobacco smoking in northern Jordanian universities: prevalence, characteristics, risk factors and genotoxicity, Deanship of Research, Jordan University of Science and Technology, 2008.

Title: The role of PAX9 and AXIN2 genes in causing hypodontia in Jordan, Deanship of Research, Jordan University of Science and Technology, 2008.

Title: Genetic factors that contributes to longevity in Jordanian population, Deanship of Research, Jordan University of Science and Technology, 2008.

Title: Genotoxicity assessment in iron deficiency anemia patients, Deanship of Research, Jordan University of Science and Technology, 2008.

Title: Combined effect of diet and exercise on spatial memory formation and expression of BDNF in rats, Deanship of Research, Jordan University of Science and Technology, 2007.

Title: Genotoxicity assessment in Behcet disease patients in Jordan, Deanship of Research, Jordan University of Science and Technology, 2007.

Title: The Role of TNF- α -308 (G-A) and IL-10 -1082 (G-C) Promoter Gene Polymorphisms in predicting therapeutic response to TNF alpha-inhibitors in rheumatoid arthritis and spondyloarthritis patients in Jordan. The project funded by Deanship of Research, JUST. 2007.

AFFILIATIONS:

RCR Arab Academy
Society for Neuroscience. (SFN)
Society for Arab Neuroscientists (SAN)
International Brain Research Organization (IBRO)
Society of Research on Nicotine and Tobacco (SRNT)
Public Health in the Arab World organization (PHAW)
Arab Aging Network (AAN)

AWARDS AND HONORS:

- Top 2% of most cited scientist, Harvard ranking, 2023.
- Scientific Research Fund Support award for distinguished researcher in Basic Sciences for the year 2014. Amman, Jordan.
- Travel Award, Hamad Medical Association, 2nd International Waterpipe Conference, Doha, Qatar, 2014
- Ali Mango Award for distinguished researchers in the field of sciences and information technology. Amman, Jordan 2013
- Abdul Hameed Shoman Award for Young Arab Researchers: Biological and Environmental Field. Amman, Jordan, 2011.
- Travel Award, NAY Abu Dhabi, 1st International Waterpipe Conference, Abu Dhabi, UAE, 2013.
- Graduate Student's Assistant Teaching/Research Fellowship- Department of Biology/Biochemistry, University of Houston, Houston, Texas (2001-2005).
- Graduate Students Travel Award, Department of Biology/Biochemistry, University of Houston, Houston, Texas (for years: 2003, 2004, 2005).
- Scholarship for Higher Education (PhD) - Jordan University of Science and Technology, Irbid, Jordan (2001- 2004).
- Scholarship, Graduate Diploma in Science Teaching Methods, Ministry of Education, Amman, Jordan (1997-1998).

ORAL PRESENTATIONS AND SHORT COURSES

- A. Seminars presented as a part of Graduate students seminar series, Department of Biology/Biochemistry, The University of Houston, Houston, Texas:
- Regulation of glutamate uptake during long-term sensitization in *Aplysia* (2004)
 - Regulation of glutamate transporters during memory formation in *Aplysia* (2005)
 - The role of BDNF in memory formation (2003)
- B. Seminars presented for the PhD Dissertation: Co-regulation of glutamate uptake and long-term sensitization in *Aplysia*.(2005), Department of Biology/Biochemistry, The University of Houston, Houston, Texas.
- C. Seminars presented for the MSc thesis: Induction of sex-linked recessive lethal mutations in the germ cell stages of *Drosophila melanogaster* by Bleomycin and trifluoperazine, Department of Biology, Yarmouk University, Irbid, Jordan (1996).
- D. Seminars presenting in Scientific meeting and Scientific days:
- The third Jordanian International Conference of Jordan Society For Medical Laboratory Sciences, Health effects of Waterpipe Tobacco Smoking, March 23-25, 2013
 - The 1st Funded Research Conference, Genotoxicity of waterpipe tobacco smoking, Jordan University of Science and Technology, Irbid, Jordan, 24 April 2012.
 - SRNT annual meeting 2012. Waterpipe smoking among university students in Jordan. Houston, Texas, USA, March 13th, 2012.
 - Al-Astiklal School. Inheritance pattern of Human genetic diseases and phenotypes. Al-Ramtha, Jordan, April 2011.
 - Biology and Biochemistry first annual meeting: Mutagenicity of Bleomycin and trifluoperazine to *Drosophila* male germ cells, Department of Biology, Yarmouk University, Irbid, Jordan (1998).
- E. Seminars presented in workshops: Waterpipe use and genotoxicity, Jordan University of Science and Technology, Irbid, Jordan 2009.
- F. Seminar presented in workshop: Grant proposal writing, Score Research School, IFSMA, Jordan University of Science and Technology, Irbid, 12-15 September 2012.
- G. Seminar presented as invited speaker. Ethical challenges of biomedical research in the Arab countries, University of California at San Diego, 2018.
- H. Seminar presented for Taibah Faculty of Applied Medical Sciences students: How to use Endnote referencing software, Taibah University, 2019.

- I. Seminar presented as invited speaker. Institutional Review Board, Sudan University of Science and Technology, Khartoum, Sudan, 2023.

TEACHING EXPERTISE

Courses taught repeatedly (2006-present), Department of Medical Laboratory Sciences/ Faculty of Applied medical Sciences; Department of Biochemistry and Molecular Biology/Faculty of Medicine; Department of Biotechnology and Genetic Engendering/Faculty of Science and Art: Jordan University of Sciences and Technology, Irbid, Jordan:

- BIOL 211 Principles of Genetics
- B 742 Advanced Molecular Biology
- B 791 Special Topics in Human Genetics
- BT 454 Molecular Biology II
- BT 456 Cytogenetics
- B 747 Advanced Human Genetics
- BT 431 Human Genetics
- LM 423, Diagnostic Molecular and Cytogenetics: theory
- LM 425, Diagnostic Molecular and Cytogenetics: practical
- M 211 Molecular Genetics
- LM 713, Cellular and Molecular Pathogenesis
- LM 722, Molecular Biology
- LM 783, Advanced Human Genetics
- LM 784, Advanced Human Cytogenetics
- LM 791, Research Methodology
- LM 786, Special topics in human genetics
- M 222, Biochemistry
- LM 707, Independent Study
- LM 795, Graduate Seminar
- LM 495 Research Project
- MLT 331, Medical Genetics
- MLT 334, Molecular Genetics
- MLT 435, Forensic Toxicology
- MLT 714, Research Methods and Ethics

PUBLICATIONS:

1. Khabour, OF, Mahallawi, WH, Ali, AI, Almaramhy, HH, Bakhsh, AM, Abu-Siniyeh, A. Attitude towards donation of the excised foreskin after circumcision surgery for research: A study from Madinah, Saudi Arabia. *PLoS One*. 2023;18:e0293366. <https://doi.org/10.1371/journal.pone.0293366>
2. Khabour, OF, Abuhammad, S, Alzoubi, KH, Alkofahi, AS. Coriandrum sativum and Aloysia triphylla can Protect the Development of Cancer: an in Vivo Study Using Mouse Painting Assay. *Curr Cancer Drug Targets*. 2023. <https://doi.org/10.2174/1568009623666230817101757>
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10. Alomari, MA, Khabour, OF, Alzoubi, KH, Maikano, AB. The impact of COVID-19 pandemic on tobacco use: A population-based study. *PLoS One*. 2023;18:e0287375. <https://doi.org/10.1371/journal.pone.0287375>
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Conference Abstracts:

- 1- Mahmoud A. Alfaqih , Jannat H. Maraqah , **Omar F. Khabour**. The Association Between Epidermal Growth Factor Gene Polymorphism And Glycemic Control In Type Two Diabetes Mellitus Patients. International Conference on Diabetes, Obesity and Endocrine Diseases. Nagoya, Japan, 2024.
- 2- Lina Mustafa. **Khabour OF**. BaniHani M. A study of the FTO and ADRB2 genotypes and their effect on the risk of obesity among adolescents and young adults in Jordan. International Conference on Research in Education and Science, Istanbul, Turkey, 2023.
- 3- Lina Al-Ibbini, Khabour OF, Alkaraki M. Alzoubi K. Biomedical Data Sharing Among Researchers: A Study from Jordan. 6th International Conference on Research Ethics in Jordan and the MENA. JUST, Irbid, August, 05/06, 2021.
- 4- Sawsan Abu Hammad, **Omar F. Khabour**, Karem H. Alzoubi. OVID-19 Contact-Tracing Technology: Acceptability and Ethical Issues of Use. The 5th International Conference on Ethics in Jordan and the MENA Jordan University of Science and Technology, Irbid, Jordan, November-06-07, 2020.
- 5- Alomari M, **Khabour OF**, Halboup A, Shihadeh A, Eissenberg T. The beneficial effect of forced swimming exercise in memory impairment induced by waterpipe smoking. Society of Nicotine and Tobacco Research 2016, March 2-6. Chicago, IL, USA.
- 6- **Khabour OF**. Alzoubi KH, Shihadeh A, Eissenberg T. Organs injury induced by exposure of mice to waterpipe smoke. Society of Nicotine and Tobacco Research 2016, March 2-6. Chicago, IL, USA.
- 7- **Khabour OF**, Alzoubi KH, Mayyas F, BaniSalameh F, Mehaidat N. Melatonin prevents memory impairment induced by chronic sleep deprivation. Society for Neuroscience Meeting 2015, October 16-20, Chicago, IL, USA.
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- 11- Alzoubi KH., **Khabour OF.**, Harahshah A. The effect of waterpipe tobacco smoke exposure on learning and memory functions. Society for Neuroscience Meeting 2014, Washington, DC, USA.
- 12- **Khabour, OF**, Alomari M, Alzoubi KH, Ghariebeh MY, Alhashimi F. Distribution of Hepatic Lipase C-514T and G-250A Polymorphisms and Their Association with Lipid Profile in Young adults. American Society of Human Genetics 2013, Boston, USA.
- 13- Alzoubi KH, **Khabour, OF**, Alazzam S. The role of multidrug resistance-1 (MDR1) variants in response to Atorvastatin among Jordanians. American Society of Human Genetics 2013, Boston, USA.
- 14- **Khabour, OF** Alzoubi KH, Azab M, Eissenberg T, Primack P. Waterpipe. Tobacco Smoking Among University Students in Jordan. Society for Research on Nicotine and Tobacco annual meeting 2013, Boston, USA.
- 15- Alzoubi KH, **Khabour OF**, Azab M, Shqair D, Shehadeh A, Primack P., Eissenberg T. Waterpipe. CO Exposure and Puff Topography Among Jordanian Waterpipe Smokers: Correlation With Level of Dependence. Society for Research on Nicotine and Tobacco annual meeting 2013, Boston, USA.
- 16- **Khabour OF**. The third Jordanian International Conference of Acute exposure to waterpipe tobacco smoke induces changes in the oxidative and inflammatory markers in mouse lung effects of Waterpipe Tobacco Smoking, March 23-25, 2013.
- 17- Banihani S, Fahtaky F., **Khabour OF**, El-Akawi Z., Ghariebeh M. The third Jordanian International Conference of Jordan Society For Medical Laboratory Sciences, Short-term Effect of Pomegranate Juice on the Level of Fasting Serum Glucose in Type 2 Diabetic Patients, March 23-25, 2013.
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- 21- **Khabour OF**, Mesmar FS, Alatoum MA, Gharaibeh MY, Alzoubi KH. Associations of polymorphisms in adiponectin and leptin genes with men's longevity. The 1st Funded Research Conference 2012. Jordan University of Science and Technology. Irbid, Jordan.
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- 26- **OF Khabour**, Alzoubi KH, Abu Rashid. The neuroprotective effect of vitamin E in chronic sleep deprivation-induced memory impairment: The molecular role of BDNF and oxidative stress biomarkers, Society for Neuroscience meeting 2011, Washington DC, USA.
- 27- K. H. Alzoubi, **O. F. Khabour**, S. A. Abdo, M. A. Azubi, K. K. Abdul-Razzaq. Study of the effect of vitamin C on chronic stress-induced cognitive impairment. Society for Neuroscience meeting 2010, Sandiago, USA.
- 28- M.A. Alomari, D.M. Shqair, K. Alawneh, **O.F. Khabour**, M.E. Nazzal, E.F. Keewan. Evaluating The Relationships Of Circulatory Measures With Estimation Of Cardiovascular Endurance Using A Non-Exercise Model In Young Asymptomatic Males And Females. Controversies to Consensus in Diabetes, Obesity and Hypertension 2011, Shanghai, China
- 29- **O. F. Khabour**, B. H. Amarneh, E. A. BaniHani. The role of TpH1-218A>C, TpH2-1463G>A and SLC6A4-5HTTLPR polymorphisms in development of post partum

depression: A study in Jordanian population. American Society of Human Genetics 2010, Washington DC, USA

- 30- K. H. Alzoubi, **O. F. Khabour**, L. J. Abu-Haweleh. Distribution of CCR-5 Δ 32, CCR2-64I and SDF1-3 'A alleles that modulate drug-response and HIV infection among Jordanians. American Society of Human Genetics 2010, Washington DC, USA
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- 37- **O.Khabour**, M.S.Collado, M.Nunez-Regueiro, A.Eskin. Transcription and TGF - β 1 are involved in the long - term increase in glutamate uptake produced by 5 - HT in Aplysia Program No. 540.9. 2005, Society for Neuroscience, Washington, DC, USA
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