

**Curriculum Vitae**

**Raida Wajih Khalil**

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**Personal Data:**

- Name: **Raida Wajih Khalil**
- Place of Birth: Kuwait City, Kuwait
- Nationality: Jordanian

## **Education**

- **Ph.D-** Molecular and Cell Biology, **Institute of Medical Sciences, Aberdeen University, UK. 2002,**  
Thesis title: "Characterization and identification of transcription factors that respond to Nutrient in Pancreatic beta cells"
- **B.Sc.** Honors degree in Microbiology (Major) Biochemistry (Minor) Kuwait, University, Kuwait(**Award for first-place BSc: (7.46/9)**)
- **High school –Kuwait: 92.9%**

## **Research Area**

- Scientific Collaboration with Dr. Maria Chahrour (UT-Southwestern-Dallas-Texas)(2016-present):  
Genomic and Exomic analysis of Autism cases in Jordan.  
Human Molecular genetic analysis ex. Autism, language impairment
- The Molecular mechanism of mammalian gene expression *in Vitro*
- Genetic analysis of human diseases

## **Experience**

- **Dean- Faculty of Science –University of Philadelphia-Sep 2024-present**
- **Fulbright-Scholar Visitor** –UT Southwestern-medical Centre, Dallas- Texas-USA (Sep 2016-May 2017)
- **Positions at Department of Biotechnology and Genetic Engineering- Faculty of Science-University of Philadelphia-Jordan:**
  - **Vice Dean**, Faculty of Science (Sep 2015-Aug 2016)
  - **Head, Department of Biotechnology and Genetic Engineering** (Sep 2005/2006-Sep 2010)
  - **Head, Department of Clinical Nutrition and Dietetics** (Sep 2020/present 2020)
  - **Assistant professor** (16/2/2003 - 15/2/2011)
  - **Associate professor** (16/2/2011-July 2021)
  - **Professor (August 2021-present )**
- **PhD Student**-Aberdeen University-UK, 1999-2002
- **Lab Supervisor** (Cytogenetic and Molecular Genetics sectors), Genetic laboratory, Medical School, Jordan University, Jordan

## **Publications**

### **a- Articles in Refereed Journals**

- <https://scholar.google.com/citations?hl=aruser=XZFEMMTAAAAAJ>
- <https://orcid.org/0000-0002-9664-27>
- <https://www.researchgate.net/profile/Raida-Khalil>
- <https://www.scopus.com/authid/detail.uri?authorId=7103356341>

1. A.S.Najim Al-Din, M. El-Khateeb, A. Kurdi, A. Mubaidin, A. Wriekat, Ahmed Al- Shehab, **Raida W. Khalil**. Multiple sclerosis in Arabs in Jordan. Journal of the Neurological Sciences. August 1995, **131:144-149**
2. □ Amir S. Najim Al-Din, Ashraf Kurdi, Ammar Mubaidin, Mohammed El- Khateeb, **Raida W. Khalil**, Abdel-Latif Wriekat .Epidemiology of multiple sclerosis in Arabs in Jordan: a comparative study between Jordanians and Palestinians. **Journal of the Neurological Sciences** **1996, 135: 162-167.**
3. B. Shabsoug, **R. Khalil**, N. Abuhafeil, Enhancement of Natural Killer Cell Activity In Vitro Against Human Tumor Cells by Some Plants From Jordan. **Journal of Immunotoxicology**,(2008) **5:279–285. (ISSN: 1547-691X)**
4. **Raida Khalil**, Nizar Abuharfeil, Barakat Shabsoug. The Effect of *Crataegus Aronica* Aqueous Extract in Rabbits Fed with High Cholesterol Diet. **European Journal of Scientific Research**, (2008), **22:352-360 (ISSN: 1450-a.216X)**
5. Basma Mustafa, Nazih Mustafa, Muhannad Kashmoola, **Raida Khalil**. The Relation between Estrogen Level, Anti-Ro (SSA), Anti-La (SSB) & Secondary Sjogren's Syndrome Patients, **European Journal of Scientific Research**. (2009), **31: 184-187. (ISSN:1450- 216X)**
6. **Raida Khalil** ,Fawzi Al-Sheyab, Emran Khamaiseh, marwan, Marwan Abu halaweh, Hassan A. Abder-Rahman. Screening of mutations in the GCK gene in Jordanian maturity-onset diabetes of the young type 2 (MODY2) patients. **Genetics and Molecular Research**, (2009), **8: 500-506.( ISSN:1676-5680)**
7. Hantash Abed El-lalil, **Raida Khalil**, Muna lallad ,Muna Bustami , Fuad Al-Jawad' and Abdullalil Thwaini. *Mec A* and *PVL* Genes in Methicillin Resistant *Staphylococcus aureus* from Nasal Carrier Individuals Exposed and Not Exposed to Hospital E n v i r o n m e n t s . **Arab Journal of Pharmaceutical Sciences**, (2009)
8. M. Khanfar, **R. Khalil**, A. AbJaffal. Evaluation of the Preserving Efficacy of Different Cough Syrups. **International Journal of pharmacology**, 2009.
9. **Raida Khalil**, Mai Khanfar, Marwan Abu Halaweh, Muhanned Yacoub and Mona Bustami. Assessment of the preserving efficacy of the pharmaceutical Syrups to Identified Air-Borne Microorganisms. **Trends Journal of Applied Sciences** 2010
10. B. Shabsoug, M. Zaater, **R. Khalil** and A. El-Rjoob. Zinc Content in Human Hair of Normal

and Sick Subjects. **Journal of the Bahrain Medical Society (2010).**

11. Eman F. Badran, Hamdi A. Battah, Kamal F Akl, **Raida W. Khalil** and Iyad Al Amori.. Detection of novel *LAMA3* mutation in Herlitz junctional epidermolysis bullosa in a Jordanian family (2012). **Australasian Journal of Dermatology.**
12. Sana' H. Yousef, Abdelrahman M. Rawashdeh , **Raida W. Khalil** , Sami K. Abdel-Hafez and Khaled M. Al-Qaoud Production and Characterization of a Recombinant Camel Full Heavy Chain Antibody Against Human IgE, **2015, Jordan Journal of Biological Sciences, 8(4) 257 – 262**
13. Khaled Al-Qaoud, Sana' Yousef,1 Abdulrahman Rawashdeh,**Raida Khalil**, SamiAbdel- Hafez1, , Blocking of Histamine Release and IgE Binding to FcεRI on Human(2015), Allergy Asthma Immunol Res. ISSN 2092-7355 • eISSN 2092-7363
14. Mona R. Bustami, Nermen Dakkak, Lauy F. Abu-Qatouseh, **Raida halil**, Khalid Z. Matalka (2014). The Value of Phentypic and Genotypic of Acinetobacter isolates from two hospitals in Jordan. **THE INTERNATIONAL ARABIC JOURNAL OF ANTIMICROBIAL AGENTS. Vol.4 No. 4:5**
15. Nader Bujuq, Sharif Arar, **Raida Khalil** (2017). Synthesis and cytotoxic activity of 4- D- galactopyranosyl derivatives of phenolic acids esters. **Natural Product research.**
16. Mona R. Bustami1,Luay F. Abu-Qatouseh1 , Nagham A. Hussein2, Walid S. burayyan1, Eyad M. Mallah1, **Raeda W. Khalil** and Tawfiq A. Arafat1.The Impact of the Complexity of Cystic Fibrosis in Jordanian Patients on the Spectrum of Cystic Fibrosis Transmembrane Conductance Regulator Mutations , **Jordan Journal of Biological Sciences. 2018.**
17. **Khalil R**, Kenny C, Hill RS, Mochida GH, Nasir R, Partlow JN, Barry BJ, Al-Saffar M, Egan C, Stevens CR, Gabriel SB, Barkovich AJ, Ellison JW, Al-Gazali L, Walsh CA, Chahrour MH. PSMD12 haploinsufficiency in a neurodevelopmental disorder with autistic features. **Am J Med Genet B Neuropsychiatry Genet. 2018 Dec;177(8):736-745.**
18. **Raida Khalil** , Dema Ali, Eman Al bsoul , Rawan Ghanayem , Renad Ghanayem, The Effect of Waterpipe Smoking on DNA Integrity Among Youth in Jordan. **Arabian Journal for Science and Engineering. 2019.**
19. Marwan Abu-Halaweh, Mahmoud N. Abo-Shehada, **Raida Khalil**. Age, gender and climate associations with the seroprevalence of *Neospora* species infection in horses in Jordan. **Rev. Bras. Parasitol. Vet. vol.29 no.2 2020 .**
20. Nesrin R. Mwafi, Dema A. Ali, **Raida W. Khalil**, Ibrahim N. Alsbou, Ahmad M. Saraireh<sup>5</sup> Novel R225C variant identified in the *HGD* gene in Jordanian patients with alkaptonuria; **AIMS Molecular Science. 2021**
21. **Raida Khalil**, Dema Ali, Nesrin Mwafi, Arwa Alsaraireh, Loiy Obeidat, Eman Albsoul, Ibrahim Al Sbou. Variant analysis of alkaptonuria families with significant founder effect in Jordan. **BioMed research international 2021.**

22. **Raida Khalil**, Wajdy J. Al-Awaida, Hamzeh J. Al-Ameer, , Yazun Jarrar, Amer Imraish, Omar Al bawareed, Rand Qawadri, Farah Al Madhoon and Loiy Obeidat. Investigation of ACE rs4646994, MTHFR rs1801133 and VDR rs2228570 Genotypes in Jordanian Patients with Fibromyalgia Syndrome. **Endocrine, Metabolic & Immune Disorders - Drug Targets**, 2021, **21**,1-00
- 23-Wajdy J. Al-Awaida, Hamzeh J. Al-Ameer, Hadeel Al-Turk, Omar Al bawareed, **Raida Khalil**, Akram Al Deek, Ghizal Fatima, Amer Imraish, Moh'd Mohanad Al- Dabet,Muhanad.W. Akash. Psychological Effects of Quarantine on Syrian Refugees, Compared to the Jordanian Populations. **International Migration**. 20201
- 24-Abdulkarim Dakah, **Raida Khalil**,Chahed Al Masri,Marwa Al Matar,Saba Hameed,Huzaifa Yousif, Eman Albsoul,and Tala Issa. Effect of Olea europaea L . and Juglans regia L . Extracts on Human Cancer Cell Line Viability with Studying of Hypoglycemic and Antiglycation Properties. **Journal of Pharmaceutical Research International** 33(14):, 2021
- 25.**Raida Khalil**, Nabaa Khudhair Abdullah \*, Dalal Khaldoun Qaddoura and Rahaf Jehad Alash. Survey study: COVID-19 symptoms and lifestyle. World Journal of Biology Pharmacy and Health Sciences 2021.
- 26-Hayder Al-Domi, **Raida Khalil**, Nour Batarseh. Effects of Liraglutide Combined with Low Fat Diet on Neural and Thermogenic Activities of 5' - AMPK in the Hypothalamus: Expectations. **Progress in Nutrition**. 2022
- 27-Lena Billeh Mahmoud N Abo-Shehada, **Raida Khalil**, Marwan Abu-Halaweh, Kanar Sweis, Zuhair AmrSeroprevalences of Toxoplasma gondii and Neospora caninum infections in Jordanian women who had a recent spontaneous abortion. **Revista Brasileira de Parasitologia Veterinária**,2021
- 28-**Raida Khalil** ,Jomana Al-Azzam.Gene Associated Divergence of COVID-19 Morbidity & COVID-19 Vaccines. **American Journal of Biomedical Science & Research**.2021
- 29-Nour Batarseh, **Raida Khalil**, Hayder Abdullah Al-Domi. Hypothalamic neuroinflammation induced by obesity and the effect of Liraglutide. **Journal of Advanced Pharmacy Education & Research**. 2022.
- 30-Title: Book: Vitamins and Minerals in Neurosciences : Chapter 2.1 Alzheimer's Disease and Dementias Amal Khadoumi and **Raida Khalil**, chapter :  **$\alpha$ -Tocopherol for Alzheimer's disease 2021**
- 31-Maria Charour , **Raida Khalil** et al. Analysis of recent shared ancestry in a familial cohort identifies coding and noncoding autism spectrum disorder variants. **Npj Genomic Medicine** **2023**
- 32-Yazan Al Thaher , **Raida Khalil** , Sharif Abdelghany and Mutaz S. Salem . Antimicrobial PMMA Bone Cement Containing Long Releasing Multi-Walled Carbon Nanotubes. **Nanomaterials** 2023
- 33- Mohammad Ismail AlKhatib, Ahmed O. Maslatl, Esraa Al-Haj Ali, Thaer Al-Saqqar, **Raida Khalil** A Cross-sectional Study on the Association of KIBRA Genetic Polymorphism with Episodic Memory in North Jordanian Adults. **Open Access Macedonian Journal of Medical Sciences**. 202311(A):200-209.
- 34-Sahar Jaffal, **Raida Khalil**. Targeting nerve growth factor for pain relief: pros and cons. **Korean j pain**, 2024 Oct 1;37(4):288–298

## **B-Abstract (Oral and Poster)-Proceeding( 10 years and more)**

- **Global Employability skills –MED2IaH-Erasmus 2022 –( oral presentation –online)**
  - Using Technology in evidence-Based teaching and learning’-**Oral Presentation-** Deanship of Development and Distance Learning University of Philadelphia –Jordan-Sep- 2019
  - PSMD12 haploinsufficiency in a neurodevelopmental disorder with autistic features-**Oral presentation**.The Second Human Genetic Conference “Mendelian Diseases & the Next Generation Sequencing” **Dec 2017. University of Philadelphia- Jordan**
  - Participate in the Biosafety workshop(**Oral presentation**)-Philadelphia University–Jordan ,January 2013
  - Participate in the Quality Control workshop(Oral presentation)- Philadelphia University –Jordan ,June 2012
  - Immunological Changes in SECONDARY SJOGRAN SYNDROME(sSs) (comparative study)(Poster)(**Basma Ezzat Mustafa Alahmad<sup>1</sup>, Nazih Sh. Mustafa<sup>1</sup>, Muhannad Kashmoola, Raida Khalil – 17<sup>th</sup> International Congress on Oral Pathology and Medicine-Istanbul, Turkey. 26-30 014**
  - Raida Wajih Khalil. ‘Diabetes and Genetic. (Oral-Presentation), organized by Kulliyyah of Dentistry, Kulliyyah of Dentistry, International Islamic University **Malaysia, 2011-02-07.**
  - Raida W. Khalil “The association between Toll-Like Receptor 4(TLR4) gene polymorphism and Jordanian type 2 Diabetes”.(Abstract –Oral) the *International Journal of Arts & Sciences (IJAS)* conference- Bad Hofgastein’s Kungress Zentrum- **Austria (May 30 to June 3, 2010).**
  - Mahmoud N. Abo-Shehada, Raida Khalil & Marwan Abu-Halaweh Seroprevalence and zoonotic potential of *Neospora* species infection in Jordanian women with miscarriage ( Abstract-Poster). British Society for Parasitology Spring Meeting and Trypanosomiasis& Leishmaniasis Seminar. Cardiff University, **Wales. UK (March 29th–April 2010).**
  - Raida W. Khalil. Characterization and Identification of the Negative Regulatory Element (NRE) Binding Transcription Factors (TFs) within the Humaninsulin Promoter. (Abstract-Oral). 5th Congress of Scientific Research Outlook in the Arab World Scientific innovation and Sustained Development (SRO 5) 26- 30 October **2008. Fez, Morocco:TWO AWARDS obtained:**
    - 1-Fakhri Bazzaz (Distinguished scientist)-ward
    - 2- Best Paper Award-Biotechnology
  - Raida Wajih Khalil, Kevin Docherty. “The sterol regulatory binding protein role in regulating the insulin gene expression”. (Abstract-Poster) Experimental Biology **Washington DC. USA. 17-21April-2004**

\* **Abstract (Oral and Poster)-Proceeding before PhD (10 in total-Most in Cytogenetic field)**

## **Cultural, and Academic activities**

- Abd Alkhareem Aldoka ( main investigator), **Raida Khalil (Co- Investigator)**, Enhanced production of alkaloids from callus cultures of some slanceaa plants using biotechnological tools and evaluation their anticancer activity Supported by Deanship of Scientific research-University of Philadelphia ( 2020-2021)
- **Raida Khalil )** Main investigator(, Nisrin Mwafi (Co- Investigator), Mutational analysis of Homogentisate oxidase Gene Among Consanguineous Families in Jordan. Supported by Deanship of Scientific research-University of Philadelphia ( 2019-2020)
- **Raida Khalil )** Main investigator(, Maria Chahrour and Mahmoud Al Bishtawi. Identifying genes that control language and social behavior through whole genome sequencing in families with autism. Supported by Deanship of Scientific research-**University of Philadelphia and UT Southwestern, Medical Centre –Chahrour funds-USA (2018-present)**
- Khaled Mahmood Al-Qaoud ( Main investigator), **Raida Wajih Khalil (Co- Investigator)**, Production of human non-immunogenic camel anti-IgE nanobodies for asthma treatment purposes **C. Supported by the Scientific Research Fund, Ministry of Higher Education (120,000 JD). ( 2013)**
- **Lab Demonstrator** –Department of Biology-University of Aberdeen-UK (2001-2002)
- **Glaxco scholarship –During PhD program-(2001-2002)-UK**

#### **Technical Editor/Reviewer in the Editorial Board /Journal and Conference**

- **Reviewing two Chapters** (To the Cell and Beyond: The Realm of Molecular Biology and Recombinant DNA: Principles and Applications) for text book : ‘Modern Molecular Biology: Genomes to Proteomes . Garland Science, Taylor & Francis Group (2013),
- Journal of Pediatric Genetics, May- 2011 –present(Reviewer)
- International Meeting for Autism Reserach (IMFAR ) reviewer ,2011& 2012
- **Technical Editor for the Science alert Journals**
- Reviewed a couple of manuscripts submitted to Allied Academies
- Reviewed more 20 manuscripts submitted to Jordan Journal of Biological Sciences(JJBS)
- Evaluation of research project submitted to the Scientific Research Support Fund - Higher Education. 2018
- Evaluation of two research projects submitted to the Abd Alhameed Shoman Society Sep 2015 and 2018
- Evaluation of research project submitted to the University of Arabian Gulf University-Bahrain 2017

#### **Examination & Research Advisory committees/Co-supervisor MSc thesis:**

- **External examiner for around 70 MSc theses in material research at different Jordanian universities:**
- **University of Jordan:** Faculties of Medicine, Science and Pharmacy;
- **Jordan University of Science and Technology JUST,**Faculty of Science

- **University of Yarmulke, Faculty of Science; University of Hashemite, Faculty of Science.**
- **Hashemite University : Faculty of Science**
- **Al-Ahliyya Amman University –Faculty of Allied Medical Sciences**
- **Supervisors –MSc students –Molecular Diagnostics and Genetics –University of Philadelphia**
- **Co-Supervisor-MSc student at JUST 2023-present**
- **Co-Supervisor –PhD student at the university of Jordan -Nutrition department (2020-2022)**
- **External referee for Academic promotion to Associate professor Rank from:**
  - Islamic University of Gaza-Gaza
  - Sulamania University –Iraq
  - University of Taif-KSA,
  - Malaysia Universities
- **Co-supervisor MSc student in collaboration with JU-faculty of Medicine, 2007-2009.**

### **Consultation, Workshop, Meeting, Symposiums, Seminars and Training Activities:**

- **Higher Education Reform Day-2021-JUST 2021**
- **The eleventh annual conference of the Arab Organization for Research and Education Networks 2021-Jordan**
- **Activity on capacity building projects for youth and capacity building projects in vocational education and training 2021 Jordan**
- **Webometrics workshop in the Arab region -2022**
- **Coordinator and organizing the third Creativity and Leadership Forum-2022 University of Philadelphia**
- **Coordination in concluding a memorandum of understanding between the University of Philadelphia and the University of Dundalk Institute of Technology - Ireland in the field of access to joint programs-2022**
- **-How to find the right collaborators and funding opportunities-University of Philadelphia - 2022**
- **Fulbright research fellow at UT Southwestern, Medical Centre, Dallas Texas-USA( Sep 2016-May 2017)**
- **Applied with undergraduate students to Crown Prince Prize For the best government services ( 2019 and 2020)**
- **Participant at national Biodiversity Network (Dead Sea , 06-12-2020)**
- **Supervision three undergraduate research projects applied to King Abdullah II Fund for Development supports graduation projects for the year 2019**



- Principal Organizer of 'Karyotype' training course' from 30 to 31 /January 2009, Jordan
- Participant in the Organizing Committee for the Science days; : 2005, 2007, 2008, 2009 and 2010, Department of Biotechnology-Faculty of Science-Philadelphia University.
- Research mission for one-month with Prof. Marshall Stark and the Resolvase group, on 'DNA site-specific recombination', carried out in the Institute of Biomedical and Life Sciences-University of Glasgow-UK Aug. 2005(Training)

- **Committees :**

**Biodiversity Committee –ministry of Higher education -2023-present  
Member in different Academic committees at level of Department, Faculty  
and University such as:**

**Quality Assurance ; Exam; Scientific; Strategic plan ; Scientific laboratories;  
Employment and Promotion; Member in Crown Prince Prize for the best  
government services; Risk Management plan; Professional Development skills,  
Innovation committee ; University Council ; liaison officer of national  
Biodiversity ;. Liaison officer (2021) of United Nations Security Council  
Resolution ; Member of the board for the Best Invention Award - University of  
Philadelphia Awards**

**Teaching Experiences: Courses Taught ( BSc and MSc programs):**

**Advanced cell biology ; Laboratory applications in molecular diagnostics; Introduction to  
Biotechnology, Molecular Biology theory and Practical, Applied Molecular Biology theory  
and practical, Animal Biotechnology Cytogenetic theory and practical, Animal Tissue  
Culture, Lab Management, Human cell technology and ResearchProject supervision and  
course coordinator**