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***أستاذ واستشاري الوراثة الطبية***

***رئيس ومؤسس الجمعية السعودية لعلوم المختبرات الاكلينكية***

***(رئيس قسم علوم المختبرات الاكلينكية سابقا وعميد كلية التمريض سابقا)***

***Professor and Consultant of Medical Molecular Genetics***

* **PhD in Detection of Human Mutations: Development and Screening with Human Genetics Division (2000-2004), *Faculty of Medicine* at University of Southampton, United Kingdom.**
* **M.Sc. in Medical Molecular Genetics in Molecular and Cell Biology (1999-2000), Department at University of Aberdeen, Scotland, United Kingdom.**
* **B.Sc. in Department of Clinical Laboratory Sciences, College of Applied Medical Sciences, King Saud University with *class honor*  (1991-1996) in Riyadh, Kingdom of Saudi Arabia.**

**Overview:**

Prof. Khalid K Alharbi is a full professor in the field of Medical Molecular Genetics at the Department of Clinical Laboratory Sciences (CLS). My major filed of interest is Human Molecular Genetics. I am specifically interested in Human Mutations screening including the MC4R gene involved in obesity and the LDLR gene related to familial Hypercholesterolemia. Since the beginning of my research from 2005, I have been very focused on chronic diseases, particularly obesity. In addition, I have focused on other multifactorial disorders, such as familial hypercholesterolemia and type 2 diabetes, where molecular mechanisms are concerned. In the initial step of my research carrier, I began working on obesity individuals and samples were obtained from students in the CLS departments. Afterward, I concentrated on molecular work on other multifactorial diseases. Successfully, I have completed my project on enrolled subjects in first-cousin obese consanguinity; NPST-approved grant. As a supervisor, I have successfully completed a master's thesis on Glucose-6-phosphate dehydrogenase, familial hypercholesterolemia, student obesity, first-cousin obesity and gestational diabetes. Currently, a few students are focusing on acute myeloid leukemia, and one of them is focusing on thalassemia and vitamin deficiencies. My area of interest in obesity and my completed, existing and ongoing initiatives will concentrate on obesity, which is related to chronic diseases and fits into the Saudi vision for 2030(https://vision2030.gov.sa/en/programs/QoL).

**4) Key Publications:**

**83** papers were published as full-length articles in international, peer-reviewed journals. And **3** different chapter books were published Since 2004-2020.

<https://pubmed.ncbi.nlm.nih.gov/?term=Alharbi+KK&cauthor_id=31638163>

<https://pubmed.ncbi.nlm.nih.gov/?term=Alharbi+KK&sort=pubdate&size=50>

**I will list only from 2017-2020:**

1. **Alharbi KK**, Syed R, Alharbi FK, Khan IA. Association of Apolipoprotein E Polymorphism with Impact on Overweight University Pupils.Genet Test Mol Biomarkers. **2017 Jan;21(1):53-57.**
2. Rodriguez S, Al-Ghamdi OA, Guthrie PA, Shihab HA, McArdle W, Gaunt T, **Alharbi KK**, Day IN.Frequency of KLK3 gene deletions in the general population.Ann Clin Biochem. **2017 Jul;54(4):472-480**.
3. **Alharbi KK**, Khan IA, Syed R, Alharbi FK. Obesity and the incidence of apolipoprotein E polymorphisms in an assorted population from King Saud University, Saudi Arabia. Genetic Testing and Molecular Biomarkers. **2017 Jan; 21(1):53-57**.
4. **Alharbi KK**, Alnbaheen MS, Alharbi FK, Hasanato RM, Khan IA. Identification of Q192R variant among *PON1* gene in Saudi patients affected by familial hypercholesterolemia. Saudi Medical Journal. Ann Saudi Med. **2017 Nov-Dec;37(6):425-432**.
5. Al-Sulaiman AM, Vallely PJ, Klapper PE, Al Baradie R, Almatrrouk SA, **Alharbi KK**. Expression of variable viruses as herpes simplex glycoprotein D and varicella zoster gE glycoprotein using a novel plasmid based expression system in insect cell.Saudi J Biol Sci. **2017 Nov;24(7):1497-1504**.
6. **Alharbi KK**, Khan IA, Alotaibi MA, Saud Aloyaid A, Al-Basheer HA, Alghamdi NA, Al-Baradie RS, Al-Sulaiman AM. Molecular genetic studies in Saudi population; identified variants from GWAS and meta-analysis in stroke. Saudi J Biol Sci**. 2018 Jan;25(1):83-89.**
7. Al Akeel R, Mateen A, **Alharbi KK**, Alyousef AA, Al-Mandeel HM, Syed R. Purification and MIC analysis of antimicrobial proteins from Cucumis sativus L. seeds. BMC Complement Altern Med. **2018 Apr 3;18(1):121**.
8. Almigbal HT, Batias MA, Hasanato RM, Alharbi FK, Khan IA, **Alharbi KK**. Role of Apolipoprotein E gene polymorphism studies in the risk of familial hypercholesterolemia: A case-control study. Acta Biochim Pol**. 2018;65(3):415-420**.
9. **Alharbi KK**, Al-Sulaiman AM, Shedaid KMB, Al-Shangiti AM, Marie M, Al-Sheikh YA, Ali Khan I. MTNR1B genetic polymorphisms as risk factors for gestational diabetes mellitus: a case-control study in a single tertiary care center. Ann Saudi Med. **2019 Sep-Oct;39(5):309-318.**
10. Al-Sheikh YA, Ghneim HK, **Alharbi KK**, Aboul-Soud MAM. Screening for differentially‑expressed microRNA biomarkers in Saudi colorectal cancer patients by small RNA deep sequencing. Int J Mol Med. **2019 Dec;44(6):2027-2036**.
11. Batias MA, Almigbal HT, Hasanato RM, Alharbi FK, Khan IA, **Alharbi KK**. Screening of common genetic variants in the ApoB gene related to Familial Hypercholesterolemia in the Saudi population. Medicine. 2019 Jan; 98(4): e14247.
12. Bogari NM, Amin AA, Rayes H, Al-Allaf F, Moulana M, Jambi F, Abutalib M, Udayaraja GK, Fawzy A, Khan IA, **Alharbi KK**. Exome Sequencing Studies in Saudi Children with diagnosed non-familial Food Allergy cases. Genetics and Molecular Research. 2019. 18(3): gmr16039964
13. Bogari NM, Amin AA, Rayes HH, Abdelmotelb A, Al-Allaf FA, Dannoun A, Al-Amodi HS, Sedayo AA, Almalk H, Moulana A, Balkhair R, Jambi F, Madani F, Abutalib M, Taher MM, Bouazzaoui A, Aljohani A, Bogari MN, G K UR, Fawzy A, **Alharbi KK**, Ali Khan I. Whole exome sequencing detects novel variants in Saudi children diagnosed with eczema. J Infect Public Health. **2020 Jan;13(1):27-33.**
14. **Alharbi KK**, Al-Sheikh YA, Alsaadi MM, Mani B, Udayaraja GK, Kohailan M, Ali Khan I. Screening for obesity in the offspring of first-cousin consanguineous couples: A Phase-I study in Saudi Arabia. Saudi J Biol Sci. **2020 Jan;27(1):242-246.**
15. **Alharbi KK**, Khan IA, Munshi A, Alharbi FK, Al-Sheikh Y, Alnbaheen MS. Correction to: Association of the genetic variants of insulin receptor substrate 1 (IRS-1) with type 2 diabetes mellitus in a Saudi population. Endocrine. **2020 Mar; 67(3):733.**
16. **Alharbi KK,** Sheikh Y, Alsaadi M, Syed R. Molecular analysis of Autozygous variants of Obesity in Consanguineous Population of Saudi Arabia.Journal of Environmental Biology. 2020 (In Press).