

ABDUL KHADER MOHAMMED

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RESEARCH INTEREST/ AREA OF EXPERTISE

Research Interest	Identification of novel genes that plays role in pathophysiology of type 2 diabetes and obesity and perform the functional and mechanistic studies to understand how they contribute to disease development. The findings will increase our understanding towards disease mechanism and may define new molecular pathways that could be clinically useful in designing new treatments. The identified genetic markers could be useful in predicting the disease severity as well.
Area of Expertise	Diabetes, metabolic syndrome, insulin resistance, insulin secretion, molecular medicine, biochemistry, RNA biology, gene association studies, genetic polymorphisms and gene expression studies.

EMPLOYMENT AND RESEARCH EXPERIENCE (MORE THAN 12 YEARS)

Sep 2017 – Till date	Research Assistant Sharjah Institute for Medical Research, University of Sharjah, Sharjah, United Arab Emirates.
Jan 2010 - Aug 2017	Researcher Associate/Lecturer Biomarkers Research Program, Department of Biochemistry, College of Science, King Saud University, Riyadh, Saudi Arabia.
Jul 2008 - Jan 2010	Researcher Assistant Diabetes and Endocrine Research Lab, Department of Biochemistry, College of Science, King Saud University, Riyadh, Saudi Arabia.

TEACHING EXPERIENCE

Jan 2010- Aug 2017	Taught a module of a summer school laboratory course on the principles and techniques of molecular biology (June; 2013, 2014, 2015 and 2016). While working biomarkers research lab, King Saud University, I have supervised, trained and mentored students in the lab. Taught students to conduct molecular biology experiments (i.e. PCR, RT-PCR, real-time PCR, and RFLP), protein biology experiments (i.e. ELISA and Luminex), to analyze and interpret the results. Adjunct Supervisor Seven undergraduate and six post graduate dissertation projects (at King Saud University, Riyadh, KSA).
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EDUCATIONAL BACKGROUND

2005 – 2007	Master degree in science/Biochemistry Department of Biochemistry, University College of Science, Osmania University, Hyderabad, India
2001 - 2004	Bachelor degree in science/Microbiology Department of Botany, Bhavans New Science College, Osmania University, Hyderabad, India.

PROFESSIONAL SKILLS

Cell culture	Cell culture, siRNA transfection, insulin secretion assay
Molecular biology	Nucleic acid extraction (blood, tissues and cultured cells), PCR analysis (real time, multiplex, quantitative, reverse transcription), agarose gel electrophoresis, electrophoretic mobility shift assay, sequencing, single nucleotide polymorphism (SNP) analysis, restriction length fragment polymorphism (RFLP), gene expression analysis, TaqMan genotyping assay, DNA methylation analysis (bisulphate conversion/ methylation specific PCR).
Protein biology	Insulin secretion Assay, protein extraction, western blotting, enzyme-linked immunosorbent assay and luminex multiplex assays
Computer skills	Statistical analysis using SPSS, Graphpad prism, Haploview

ACHIEVEMENTS/ AWARDS/ GRANTS/ REVIEW

Achievements, grants	<ul style="list-style-type: none"> - Obtained two research grants as Co-PI while working at King Saud University. - Published scientific papers in ISI journals to support the research program. - Fulfilled research objectives within the grant timelines. - Prepared final project report for two of the funded projects; Project number (AT-28-94 funded by KACST and 09-ENV662-02 funded by NPST) at King Saud University. - Managed a team of research technicians in conducting molecular genetics experiments. - Maintained thorough knowledge and understanding of all SOPs, GLP and ISO requirement for research laboratory.
Awards	<ul style="list-style-type: none"> - Performance Excellence Award: Based on staff evaluations, earned performance excellence award 2012 at Biomarkers Research Program, King Saud University, Riyadh, Saudi Arabia.

- 1st prize for the best oral presentation award (cash award of 5000 AED) for paper entitled “Common Genetic Variants in Vitamin D Binding Protein (DBP) Modify the Response to vitamin D supplementation”.
- Received scholarship from government of Andhra Pradesh for MSc.

Ad hoc reviewer**Reviewed manuscripts for the following journals:**

- Primary Care Diabetes
- Journal of the Renin-Angiotensin-Aldosterone System.
- BMC Complementary and Alternative Medicine.
- Journal of King Saud University

LIST OF PUBLICATIONS IN ISI JOURNALS

<u>Articles published-43 (citations 690; h index-15; i 10 index- 20)</u>	<u>Impact factor</u>
1. Taneera J, Awadallah S, Mohammed AK , Unnikannan H, Sulaiman N; Vitamin A levels are decreased but not influenced by glucose- or lipid-lowering medications in subjects with type 2 diabetes; In press, Saudi Journal of Biological Sciences Available online 2 November 2020	2.80
2. Awadallah S, Taneera J, Mohammed AK , Unnikannan H, Sulaiman N; Combined intake of glucose-and lipid-lowering medications further elevates plasma levels of PCSK9 in type 2 diabetes patients; Diabetes Metab Syndr. 2020 Oct 30;14(6):2087-2092.	-
3. Ansari AW, Sharif-Askari FS, Jayakumar MN, Mohammed AK , Sharif-Askari NS, Venkatachalam T, Mahboub B, Schmidt RE, Hamoudi RA, Halwani R, Hamid Q; Azithromycin Differentially Alters TCR-Activated Helper T Cell Subset Phenotype and Effector Function; Front Immunol. 2020 Sep 30;11:556579.	5.08
4. Aljaibeji H, Elemam NM, Mohammed AK , Hasswan H, Thahyabat MA, Alkhayyal N, Sulaiman N, Taneera J; Let7b-5p is Upregulated in the Serum of Emirati Patients with Type 2 Diabetes and Regulates Insulin Secretion in INS-1 Cells; Exp Clin Endocrinol Diabetes. 2020 Oct 9. doi: 10.1055/a-1261-5282.	2.10
5. Mussa BM; Srivastava A; Mohammed AK ; Verberne AJM; Cytokine-stimulated nitric oxide interacts with cholinceptors to modulate insulin secretion by pancreatic β -cells; Pflugers Arch. 2020 Oct;472(10):1469-1480.	3.16
6. Aljaibeji H*, Mohammed AK* , Alkayyali S, Hachim MY, Hasswan H, El-Huneidi W, Taneera J, Sulaiman N; Genetic Variants of the PLCXD3 Gene Are Associated with Risk of Metabolic Syndrome in the Emirati Population; Genes (Basel). 2020 Jun 18;11(6):665. * equal contribution	3.79
7. Hachim MY, Aljaibeji H, Hamoudi RA, Hachim IY, Elemam NM, Mohammed AK , Salehi A, Taneera J, Sulaiman N; An Integrative Phenotype-Genotype Approach Using Phenotypic Characteristics from the UAE National Diabetes Study Identifies HSD17B12 as a Candidate Gene for Obesity and Type 2 Diabetes. Genes (Basel). 2020 Apr 23;11(4):461. doi: 10.3390/genes11040461.	3.79

8. Alenad A, Alenezi MM, Alokail MS, Wani K, **Mohammed AK**, Alnaami AM, Sulimani M, Zargar S, Clerici M, Al-Daghri NM; Association of ANGPTL8 (Betatrophin) Gene Variants with Components of Metabolic Syndrome in Arab Adults; **Sci Rep. 2020** Apr 21;10(1):6764. doi: 10.1038/s41598-020-63850-7. 4.10
9. Aljaibeji H, Mukhopadhyay D, **Mohammed AK**, Dhaiban S, Hachim MY, Elemam NM, Sulaiman N, Salehi A, Taneera J; Reduced Expression of PLCXD3 Associates With Disruption of Glucose Sensing and Insulin Signaling in Pancreatic β -Cells. *Front Endocrinol (Lausanne)*. **2019 Nov** 6;10:735. 3.52
10. Mussa BM, Taneera J, **Mohammed AK**, Srivastava A, Mukhopadhyay D, Sulaiman N; Potential role of hypothalamic microRNAs in regulation of FOS and FTO expression in response to hypoglycemia; **J Physiol Sci.** **2019** Nov;69(6):981-991. doi: 10.1007/s12576-019-00718-0. 3.34
11. Taneera J, Dhaiban S, Hachim M, **Mohammed AK**, Mukhopadhyay D, Bajbouj K, Hamoudi R, Salehi A, Hamad M; Reduced Expression of Chl1 gene Impairs Insulin Secretion by Down-Regulating the Expression of Key Molecules of β -cell Function; **Exp Clin Endocrinol Diabetes.** **2019 Oct** 15. doi: 10.1055/a-1014-2544. 1.63
12. Taneera J, Mohammed I, **Mohammed AK**, Hachim M, Dhaiban S, Malek A, Dunér P, Elemam NM, Sulaiman N, Hamad M, Salehi A; Orphan G-protein coupled receptor 183 (GPR183) potentiates insulin secretion and prevents glucotoxicity-induced β -cell dysfunction; **Mol Cell Endocrinol.** **2020** Jan 1;499:110592. doi: 10.1016/j.mce.2019.110592. 3.69
13. Taneera J, Dhaiban S, **Mohammed AK**, Mukhopadhyay D, Aljaibeji H, Sulaiman N, Fadista J, Salehi A; GNAS gene is an important regulator of insulin secretory capacity in pancreatic β -cells. **Gene.** **2019** Oct 5;715:144028. doi: 10.1016/j.gene.2019.144028. 2.32
14. Mukhopadhyay D, Hammami M, Khalouf A, Shaikh Y, **Mohammed AK**, Hamad M, Salehi A, Taneera J; Dimethyloxalylglycine (DMOG) and the Caspase Inhibitor "Ac-LETD-CHO" Protect Neuronal ND7/23 Cells of Glucotoxicity; **Exp Clin Endocrinol Diabetes** **2019**; 127: 1–9 1.63
15. Al-Daghri NM, **Mohammed AK**, Bukhari I, Rikli M, Abdi S, Ansari MGA, Sabico S, Hussain SD, Alenad A, Al-Saleh Y, Alokail MS; Efficacy of vitamin D supplementation according to vitamin D-binding protein polymorphisms; **Nutrition.** **2019** Jul - Aug;63-64:148-154. 3.42
16. Taneera J, **Mohammed AK**, Dhaiban S, Hamad M, Prasad RB, Sulaiman N, Salehi A; RORB and RORC associate with human islet dysfunction and inhibit insulin secretion in INS-1 cells; **Islets.** **2019**;11(1):10-20. 1.68
17. Krishnaswamy, Bukhari I, **Mohammed AK**, Amer OE, Tripathi G, Alokail MS, Al-Daghri NM; Identification of the splice variants of Recepteur d'Origine nantais (RON) in lung cancer cell lines; **Gene.** **2018** Dec 30;679:335-340. 2.32

18. Taneera J, Prasad RB, Dhaiban S, **Mohammed AK**, Haataja L, Arvan P, Hamad M, Groop L, Wollheim CB; Silencing of the FTO gene inhibits insulin secretion: An in vitro study using GRINCH cells; **Mol Cell Endocrinol.** **2018** Sep 5;472:10-17. 3.86
19. Krishnaswamy S, **Mohammed AK**, Tripathi G, Alokail MS, Al-Daghri NM; Splice variants of the extracellular region of RON receptor tyrosine kinase in lung cancer cell lines identified by PCR and sequencing; **BMC Cancer.** **2017** Nov 9;17(1):738. doi: 10.1186/s12885-017-3747-x. 3.36
20. Al-Daghri NM, **Mohammed AK**, Al-Attas OS, Ansari MGA, Wani K, Hussain SD, Sabico S, Tripathi G, Alokail MS; Vitamin D Receptor Gene Polymorphisms Modify Cardiometabolic Response to Vitamin D Supplementation in T2DM Patients; **Sci Rep.** **2017 Aug** 15;7(1):8280. doi: 10.1038/s41598-017-08621-7. 4.26
21. Al-Daghri NM, **Mohammed AK**, Al-Attas OS, Draz HM, Alokail MS; Gender-Specific Association Between FGFR4 Gly388Arg Gene Variants and Hypertension. *Genet Test Mol Biomarkers.* **2017 Jun** 26. 1.29
22. Al-Daghri NM, **Mohammed AK**, Al-Attas OS, Clerici M, Alenad A, Alokail MS; SNPs in FNDC5 (irisin) are associated with protection from obesity and modulation of glucose and lipid metabolism. **Lipids Health Dis.** **2016 Mar** 11;15(1):54. 2.21
23. Krishnaswamy S, **Mohammed AK**, Amer OE, Tripathi G, Alokail MS, Al-Daghri NM. Recepteur d'Origine nantais (RON) tyrosine kinase splicing variants lacking exons 18 and 19 occur ubiquitously in lung cancer. **Int J Clin Exp Med.** **2015 Nov** 15;8(11):20778-86. 1.42
24. Al-Daghri NM, Costa AS, Alokail MS, Zanzottera M, Alenad AM, **Mohammed AK**, Clerici M, Guerini FR. Synaptosomal Protein of 25 kDa (Snap25) Polymorphisms Associated with Glycemic Parameters in Type 2 Diabetes Patients. **J Diabetes Res, J Diabetes Res.** **2016**; 2016:8943092. doi: 10.1155/2016/8943092. 2.17
25. Krishnaswamy S, **Mohammed AK**, Amer OE, Tripathi G, Alokail MS, Al-Daghri NM. Novel splicing variants of recepteur d'origine nantais (RON) tyrosine kinase involving exons 15–19 in Lung Cancer. **Lung Cancer.** **2016 Feb**;92:41-6. 3.95
26. Alharbi KK, Ali Khan I, Syed R, Alharbi FK, **Mohammed AK**, Vinodson B, Al-Daghri NM. Association of JAZF1 and TSPAN8/LGR5 variants in relation to type 2 diabetes mellitus in a Saudi population. **Diabetol Metab Syndr,** **2015 Oct** 24;7:92 2.16
27. Al-Shaqha WM, Alkharfy KM, Al-Daghri NM, **Mohammed AK**. N-acetyltransferase 1 and 2 polymorphisms and risk of diabetes mellitus type 2 in a Saudi population; **Ann Saudi Med.** **2015 May-Jun**; 35(3):214-21. 0.48
28. Al-Daghri NM, Al-Attas OS, Krishnaswamy S, Yakout SM, **Mohammed AK**, Alenad AM, Chrousos GP, Alokail MS. Association between promoter region genetic variants of PTH SNPs and serum 25(OH)-vitamin D level; **Int J Clin Exp Pathol.** **2015 Jul** 1;8(7):8463-71 1.89
29. Al-Daghri NM, Al-Attas OS, Krishnaswamy S, **Mohammed AK**, Alenad AM, Chrousos GP, Alokail MS. Association between type 2 diabetes mellitus related SNP genotypes and 1.42

- altered serum adipocytokine levels and metabolic syndrome phenotypes; **Int J Clin Exp Med.** 2015 Mar 15;8(3):4464-71
30. Alharbi KK, Richardson GT, Khan IA, Syed A, **Mohammed AK**, Boustred CR, Gaunt TR, Tamimi W, Al Daghri NM and Day INM. Influence of appetite genotypes in a population of Saudi Arabians where other variables influencing obesity may be reduced; **Dis Markers.** 2014; 2014:758232. doi: 10.1155/2014/758232. 2.17
 31. Al-Daghri NM, Guerini FR, Al-Attas OS, Alokail MS, Alkharfy KM, Draz HM, Agliardi C, Costa AS, Saulle I, **Mohammed AK**, Biasin M, Clerici M. Vitamin D Receptor Gene Polymorphisms are Associated with Obesity and Inflammation Activity; **PLoS One.** 2014 Jul 14; 9(7):e102141. doi: 10.1371/journal.pone.0102141. eCollection 2014. 3.73
 32. Alokail MS, Al-Daghri NM, **Mohammed AK**, Vanhoutte P, Alenad A. Increased TNF α , IL-6 and ErbB2 mRNA expression in peripheral blood leukocytes from breast cancer patients; **Med Oncol.** 2014 Aug; 31(8):38. doi: 10.1007/s12032-014-0038-0. Epub 2014 Jun 25. 2.63
 33. Al-Daghri NM, Al-Attas O, Alkharfy KM, Khan N, **Mohammed AK**, Vinodson B, Ansari MGA, Alokail MS, Alenad AM. Association of VDR-gene variants with factors related to the metabolic syndrome, type 2 diabetes and vitamin D deficiency; **Gene.** 2014 Jun 1; 542(2):129-33. doi: 10.1016/j.gene.2014.03.044. Epub 2014 Mar 25. 2.20
 34. Al-Daghri NM, Abd-Alrahman S, Draz H, Alkharfy K, **Mohammed AK**, Clerici MS, Alokail MS. Increased IL-4 mRNA expression and poly-aromatic hydrocarbon concentrations from children with asthma. **BMC Pediatr.** 2014 Jan 23; 14:17. doi: 10.1186/1471-2431-14-17. 1.98
 35. Al-Daghri NM, Alkharfy KM, Al-Attas OS, Krishnaswamy S, **Mohammed AK**, Albagha OM, Alenad AM, Chrousos GP, Alokail MS. Association between type 2 diabetes mellitus-related SNP variants and obesity traits in a Saudi population. **Mol Biol Rep.** 2014 Mar; 41(3):1731-40. doi: 10.1007/s11033-014-3022-z. Epub 2014 Jan 17. 2.51
 36. Alharbi KK, Khan IA, Al-Daghri NM, Munshi A, Sharma V, **Mohammed AK**, Wani KA, Al-Sheikh YA, Al-Nbaheen MS, Ansari MG, Syed R.; ABCA1 C69T gene polymorphism and risk of type 2 diabetes mellitus in a Saudi population. **J Biosci.** 2013 Dec; 38(5):893-7. 1.76
 37. Hassan MA, Al-Attas OS, Hussain T, Al-Daghri NM, Alokail MS, **Mohammed AK**, Vinodson B; The Q192R Polymorphism of the Paraoxonase 1 gene is a Risk Factor for Coronary Artery Disease in Saudi Subjects. **Mol Cell Biochem.** 2013 Aug; 380(1-2):121-8. 2.33
 38. Alkharfy KM, Al-Daghri NM, Alokail MS, **Mohammed AK**, Hussain T, Krishnaswamy S; Influence of Vitamin D Treatment on Transcriptional Regulation of Insulin-Sensitive Genes. **Metab Syndr Relat Disord.** 2013 Aug; 11(4):283-8. 1.65
 39. Al-Daghri NM, Clerici M, Al-Attas O, Forni D, Alokail MS, Alkharfy KM, Sabico S, **Mohammed AK**, Cagliani R, Sironi M. A nonsense polymorphism (R392X) in Toll-like 5.52

- Receptor 5 protects from obesity but predisposes to diabetes. **J Immunol.** 2013 Apr 1;190(7):3716-20.
40. Al-Daghri NM, Alkharfy KM, Alokail MS, Alenad AM, Al-Attas OS, **Mohammed AK**, Sabico S, Albagha OM. Assessing the contribution of 38 genetic loci to the risk of type 2 diabetes in the Saudi Arabian Population. **Clin Endocrinol (Oxf).** 2014 Apr;80(4):532-7. 3.40
41. Al-Daghri NM, Alokail MS, Alkharfy KM, **Mohammed AK**, Abd-Alrahman SH, Yakout SM, Osama E. Amer, Krishnaswamy S. Ethanolic extract of fenugreek caused death of human T Lymphoma Jurkat cells via autophagy. **BMC Complement Altern Med.** 2012 Oct 30; 12:202. doi: 10.1186/1472-6882-12-202. 2.08
42. Alkharfy KM, Al-Daghri NM, Al-Attas OS, Alokail MS, **Mohammed AK**, Vinodson B, Clerici M, Kazmi U, Hussain T, Draz HM. Variants of endothelial nitric oxide synthase gene are associated with components of metabolic syndrome in an Arab population. **Endocr J.** 2012; 59(3):253-63. 2.23
43. Al-Daghri NM, Al-Attas O, Alokail MS, Alkharfy KM, Draz HM, Agliardi C, **Mohammed AK**, Guerini FR, Clerici M. Vitamin D Receptor Gene Polymorphisms and HLA DRB1*04 Cosegregation in Saudi Type 2 Diabetes Patients. **J Immunol.** 2012 Feb 1; 188(3):1325-32. 5.52

PAPERS AND POSTERS PRESENTED IN CONFERENCES

- Oral presentation** Sabico S; **Mohammed AK**, Rikli M, Abdi S, Al-Daghri NM; Common Genetic Variants in Vitamin D Protein (DBP) Gene Modify the Response to Vitamin D Supplementation; Fifth Clinical Congress hosted by the Gulf Chapter of the American Association of Clinical Endocrinologists (AACE); (5-7 October 2017), Grand Hyatt Hotel, Dubai, United Arab Emirates.
- Oral presentation** **Mohammed AK**, Alokail MS, Wani K, Al-Daghri NM; Differences in the Metabolic Effects of a 12-Month Vitamin D Supplementation According to Vitamin D Receptor (VDR) Genotypes; The Second Vitamin D Symposium (20-21 January 2016)
- Oral presentation** **Mohammed AK**, Al-Daghri NM, Al-Attas O, Alokail MS, Alkharfy KM, Draz HM, Agliardi C, Guerini FR, Clerici M Vitamin D Receptor Gene Polymorphisms are Associated with Obesity and Inflammation Activity in Saudi Arabians; The Second International Conference of The Saudi Osteoporosis Society (12-13 March 2014) Riyadh, Saudi Arabia.
- Poster** Ansari MGA, Al-Daghri NM, Al-Attas O, Alkharfy KM, Khan N, **Mohammed AK**, Vinodson B, Alokail MS, Alenad AM. Interaction of VDR-Gene Variants with Factors Related to the Metabolic Syndrome, Type 2 Diabetes and Vitamin D Deficiency. The Second International Conference of The Saudi Osteoporosis Society (12-13 March 2014) Riyadh, Saudi Arabia.

- Poster Al-Daghri NM, Alkharfy KM, Alokail MS, Alenad AM, Al-Attas OS, **Mohammed AK**, Sabico S, Albagha OM Replication of genome wide association-validated loci for type 2 diabetes mellitus in the Saudi Arabian population; Endocrine Abstracts (2013) 31 P195 DOI:10.1530/endoabs.31.P195; <http://www.endocrine-abstracts.org/ea/0031/ea0031P195.htm>
- Poster Draz HM, Al-Daghri NM, Al-Attas O, Alokail MS, Alkharfy KM, Agliardi C, **Mohammed AK**, Guerini FR, Clerici M. Vitamin D Receptor Gene Polymorphisms and HLA DRB1*04 Cosegregation in Saudi Type 2 Diabetes Patients. Poster presentation at the First Saudi Osteoporosis Society International Conference (6-8 March 2012) Riyadh, Saudi Arabia.

CONFERENCES, TRAINING COURSES AND WORKSHOPS ATTENDED

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| Conference | 1. Nutrition and Health Series (6 April 2015), Riyadh, Saudi Arabia. |
| Workshop | 2. Introduction to FP7 European funding for research and innovation (10 April 2012) King Saud university, Riyadh, Saudi Arabia |
| Conference | 3. The first international conference of the Saudi osteoporosis society (6-8 march 2012) Riyadh, Saudi Arabia. |
| Workshop | 4. Updates on Osteoporosis (10 January 2012) King Saud University, Riyadh, Saudi Arabia. |
| Training Course | 5. The Art of good Research: How to make it happen (01 March 2011) King Saud University, Riyadh, Saudi Arabia. |
| Workshop | 6. Fourth international conference of biomarkers in chronic diseases (4-6 May 2010) Riyadh, Saudi Arabia. |
| Quiz | 7. Biochemistry in the New Millennium/Quiz (3-4 September 2005) Hyderabad, India. |

ACKNOWLEDGEMENTS IN ARTICLES

Role

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|----------------------|---|
| Technical assistance | 1. Al-Attas OS, Hussain T, Al-Daghri NM, Rosas ED, Kazmi U, Vinodson B. The Relationship between a Mediterranean Diet and Circulating Adiponectin Levels is influenced by Cigarette Smoking J Atheroscler Thromb. 2012 Dec 27 |
| Technical assistance | 2. Al-Daghri NM, Al-Attas OS, Alokail MS, Alkharfy KM, Hussain T, Yakout S, Vinodson B, Sabico S. Adiponectin gene polymorphisms (I45G and G276T), adiponectin levels and risk for metabolic diseases in an Arab population Gene. 2012 Feb 1; 493(1):142-7. Epub 2011 Dec 1. |
| Technical assistance | 3. Hussain T, Al-Daghri NM, Al-Attas OS, Draz HM, Abd Al-Rahman SH, Y akout SM. Plasma neuropeptide Y levels relate cigarette smoking and smoking cessation to body weight regulation. RegulPept. 2012 Jun 10; 176(1-3):22-7. doi: 10.1016/j.regpep.2012.02.005. Epub 2012 Feb 28. |
| Technical assistance | 4. Khalid M. Alkharfy, Nasser M. Al-Daghri, Omar S. Al-Attas, Majed S. Alokail, Hossam M. Draz, and Tajamul Hussain Endothelial Nitric Oxide Synthase Gene Polymorphisms (894GOT and 786TOC) and Risk of Coronary Artery Disease in a Saudi Population Arch Med Res. 2010 Feb;41(2):134-41. Epub 2010 Mar 27. (Technical Assistance). |

ONGOING RESEARCH PROJECTS INVOLVED

1. All New Diabetic in Sharjah and Ajman (ANDISA): An epidemiological and Genetic Study Toward Individualized Medicine
2. Exploring the molecular mechanisms of gene regulating beta cell function.
3. Fos expression in hypothalamic cells: an investigation of molecular basis of hypoglycemia unawareness
4. Molecular and Metabolic signatures of iron metabolism in pancreatic beta cells
5. Role of Estrogen and intracellular iron content in pancreatic beta cells.
6. Investigating the role of FOS and BECLIN1-inducing autophagy in pathogenesis of hypoglycaemia-associated autonomic failure in diabetes