



PROF. OMAR SALEM AL-ATTAS, PhD.

CURRICULUM VITAE

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PERSONAL INFORMATION

Full Name: OMAR SALEM A. AL-ATTAS

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ACADEMIC QUALIFICATION

University of Newcastle upon Tyne, Newcastle, United Kingdom
College of Medicine, Department of Clinical Biochemistry and Metabolic Medicine
Ph.D.in Clinical Biochemistry, 1979-1983
Supervisors: Jonathan Whittaker, MBBS, MRCP & Prof. K.G.M.M. Alberti
Thesis entitled: *Studies on Insulin Receptors*.

King Saud University, Riyadh, Saudi Arabia
College of Science, Department of Biochemistry, 1975 -1978
Bachelor of Science in Biochemistry
Minor: *Hormone Receptors*

PROFESSIONAL EXPERIENCE

Professor of Biochemistry, *Biochemistry Department*
College of Science, King Saud University (1997 – Present)
Saudi Arabia

Director, *Biomarker Research Program*
King Saud University (1987 – Present)
Saudi Arabia

Director, *Attracting Unit for Distinguished University Staff*
King Saud University (2009-2014)
Saudi Arabia

Director, *Center of Excellence in Biotechnology Research Laboratory*
King Saud University (2009 – Present)
Saudi Arabia

Dean, *King Saud University*
College of Science (2001-2007)

Vice Dean for Academic Affairs, *King Saud University*
Department of Biochemistry (1998-2001)
College of Science
Saudi Arabia

Acting Chairman, *King Saud University*
Department of Biochemistry
College of Science (1987-1989)
Saudi Arabia

Associate Professor of Biochemistry, *King Saud University*
Department of Biochemistry (October 1990 - Dec 1995)
College of Science
Saudi Arabia

Assistant Professor of Biochemistry, *King Saud University*
Department of Biochemistry (September 1983 - Oct 1990)
College of Science
Saudi Arabia

PORTFOLIO

A visionary and a leader of his generation, Prof. Omar, as known to his peers, has dedicated his youth and vitality fulfilling the noble objectives of the university: teaching the Arab youth, and propelling the Arab scientific community to greater heights. He has obtained his doctorate in Clinical Biochemistry at the University of Newcastle Upon Tyne last 1983 as a Fulbright scholar, under the supervision of the world renowned Prof. Jonathan Whitaker and Prof. K.G.M.M. Alberti. As a professor of biochemistry in KSU for almost 13 years, Prof. Omar has made for himself an unshakeable reputation among his colleagues and members of the academe as a man of diplomacy and tact, and as a servant of knowledge. He is virtually an institution himself in the field of biochemistry, with his pioneering works on insulin receptors and the progression of auto-immune diseases among patients with gestational diabetes mellitus. Furthermore, he has authored almost a hundred scientific publications and has been a lead investigator of several kingdom-wide epidemiologic studies, most of which are currently used as benchmarks for the drafting of clinical guidelines and the basis for further scientific exploration. Through his supervision, he has helped develop the careers of a dozen local scientists and academicians, many of who currently hold significant positions in academic and scientific community both locally and abroad. He has also been a major driving force in the recruitment of top notch, global scientists and internationally acclaimed universities that are now affiliated and in strong collaboration with King Saud University. Part of his vision led to the foundation of the Biomarkers Research Program, which in the past has been known as the Diabetes and Endocrinology Research Laboratory, the biggest and arguably the most active scientific laboratory in King Saud University in terms of research output and scientific collaborations. His scientific experiences, wide knowledge, and profound network of international scientists give him the competitive edge to continue serving KSU as a leader in the various units that he is passionately guiding to unprecedented milestones.

RESEARCH AREAS OF INTEREST

- 1 - Molecular aspect of Hormone Actions
- 2 - Molecular aspect of Insulin Receptors
- 3 - Epidemiological study of Chronic Diseases
- 4 - Biomarkers of Coronary heart diseases
 - a. Adipocytokines
 - b. Inflammatory markers
 - c. Total cholesterol
 - d. HDL-cholesterol
 - e. LDL-cholesterol
 - f. Telomerase gene
 - g. Insulin
 - h. Glucose
 - i. ANG-II
 - j. Adiponectin
 - k. HbA1c
- 5 - Development of biotechnical techniques related to endocrinology aspects of chronic diseases

PROFESSIONAL MEMBERSHIP

1. Member of the European Association for the Study of Diabetes (1982 – 2006)
2. Member of the Saudi Biological Society (1984 – date)
3. Member of the American Diabetes Association (1992 – date)
4. Member of the International Diabetes Federation (1993 – date)

SCIENTIFIC AND ACADEMIC WORKS

PUBLICATION LIST	
1989	
1	Al-Attas O.S., Comparative studies on the major feature of insulin receptors in mammalian and non-mammalian liver membranes. Comp Biochem Physical 93,1;125-133 (1989).
1990	
2	Al-Attas O.S., Insulin receptor autoantibodies in newly diagnosed Saudi diabetic patients. Biochem Clin 14,41;367-372 (1990).
3	Al-Attas O.S., Laajam MA, Han MS, Al-Drees AZ. Endogenous insulin secretion in newly diagnosed diabetic in Saudi Arabia. Diab. Res. Clin Pract 8;51-60 (1990).
4	Al-Attas O.S., Laajam MA, Khan MS, Al-Drees AZ, Bottazzo GF. Frequency of islet cell antibodies in adult Saudi newly diagnosed diabetic patients. Ann Saudi Med 10;369-373 (1990).
5	Al-Attas O.S., Laajam MA, Khan MS, Al-Drees AZ. Obesity and major metabolic indices in newly diagnosed Saudi diabetic patients. Trop Geogr Med 42;140-145(1990).
6	Laajam MA, Al-Attas O.S, Jim, LK, El Bolbol S, Bashi SA, Al-Khayal LA, Sulimani RA. Guar gum in non-insulin dependent diabetes mellitus: A double blind crossover placebo controlled trial in Saudi Arabian patients. Ann Saudi Med 10;525-530(1990).
7	Abu-Salah KM, Al-Attas O.S., Al-Duhaiman AS, Gorban AM, Al-Jaafari AA. Towards an application oriented biochemistry curriculum. Bioch. Educ. 14;28-31 (1990).
1991	
8	Al-Attas O.S., Laajam MA, Khan MS, Al-Drees AZ, Bottazzo GF. Relationship of beta cell function and islet cell antibodies in newly diagnosed adult Saudi diabetic patients. Saudi Med J. 12(2);102-106 (1991).
9	Sulimani RA, Laajam MA, Al-Attas O.S., Famuyiwa FO, Bashi S. Mekki MO, Ai Nuaim A. Effect of Ramadan Fasting on Diabetes Control in type II Diabetic Patients. Nutr Research 11;26-264(1991).
10	Sulimani RA, Al-Attas O.S., El-Desouki M. Eissa M, Al Nuaim A, Al Sekait M. Iodide concentrations in Saudi Waters: A cause for concern. Ann Saudi Med 11;655-657 (1991).

1993	
11	Al-Attas O.S., Cellular mechanisms of insulin action. International Diabetes Digest 5(2);34-35 (1993).
12	Al-Attas O.S., Al-Okail MS. features of insulin receptor interaction in placenta from normal, overt and poorly controlled gestational diabetic patients. Molecular and Cellular Biochemistry 126; 135-142 (1993).
13	Bakir S, Al-Attas O.S., kordy M. Gader AMA. Effect of fasting on diurnal changes of thyroid hormones. Med J Cairo Univ. 16;49-43(1993).
14	Al-Attas O.S., Sulimani RA. Iodine concentrations in Saudi staple foods. Saudi Med J 14(4);322-324(1993).
15	Al-Okail MS, Al-Attas O.S., Histological changes in placental syncytiotrophoblasts of poorly controlled gestational diabetic patients. Endocrine J 41(4);355-360(1994).
16	Al-Hazzaa H, Sulaiman M, Al-Mobaireek KF, Al-Attas O.S. Prevalence of coronary artery disease risk factors in Saudi children. H of Saudi Heart Assoc. 5;126-133(1993).
1994	
17	Bakir S, Al-Attas O.S., Kordy MMT, Gader AGMA, Muzrachi A, Mohammady I. Effect of Ramadan fast on the diurnal change of total calcium, parathyroid hormone and calcitonin. Med J Cairo Univ. 62(2);463-468(1994).
18	Bakir S, Al-Attas O.S., Kordy MMT, Gader AGMA, Haidera MS. Effect of ramadan fast on corticotrophin and beta-endorphins. Med J Cairo Univ. 62(2);485-491(1994).
19	Younes B, Al Mishari A, Al Hakeem A, Al Zamil F, Al Saleh S, Al-Attas O.S., Iodine level in breast milk of nursing mothers living in Riyadh City. Med Sci Res . 22;675-676(1994).
20	Al-Khames HA, Kandil HA, El-Tahir KEH, Al-Attas O.S., Bayomi SM. Synthesis of certain N-[[4-(1H-Tetrazolo-5-y1) methyl] Benzenesulfony1]-N'-Substituted ureas as potential antidiabetic agents. Scientia Pharmaceutical 62;363-372(1994).
1995	
21	Al-Attas O.S., Correlates of insulin autoantibodies with beta cell function at the time of diagnosis of diabetes mellitus. American Journal of the Medical Sciences. Oct;310(4):138-42(1995).
22	Al-Attas O.S., The pattern of biochemical indices in women with gestational diabetes mellitus and those at risk of developing the condition. Med Sci Res 23;118(1995).
23	Al-Attas O.S., Insulin receptor binding from mid-term and full-term placentas of gestational diabetic patients and normal pregnant women. Molecular and Cellular

	Biochemistry. Oct 4;151(1):27-31 (1995).
24	Al-Attas O.S., Al Dagheri NM, Vigo NT. Vanadate enhances insulin-receptor binding in gestational diabetic placenta. Cell Bioch. and Function. 13;9-14 (1995).
25	Al-Attas O.S., Al Dagheri NM. Placental insulin binding in women at high risk of developing gestational diabetes mellitus: Effect of familial history of diabetes mellitus as risk factor. Diabetes, Nutrition and Metabolism 8;74-80 (1995).
26	Sulimani RA, Al-Attas O.S., El-Desouki MI, Eissa MA, Al Nuaim A, Al Sekait MA. Thyroid antibodies: High prevalence among schoolchildren and adolescents in Gizan, Saudi Arabia. Saudi Med J. 6 Nov 1995.
27	Sulimani RA, Al-Attas O.S., Ali ME, El Desouki M, Al Nuaim A, Al Sekait A. Prevalence of endemic goiter among schoolchildren and adolescents in Gizan, Saudi Arabia. Saudi Med J. 20 Sept vol. 16, No. 4, pages 291-293 (1995).
28	Al Senaidy A, Al-Attas O.S., Al Dagheri NM. Plasma and tocopherol levels during pregnancy in women with GDM and women at high risk of developing GDM. Med Sci Res 23;171-174(1995).
29	Al-Nuaim A, Al-Rubeaan K, Al Mazrou Y, Khoja T, Al-Attas O.S., Al-Khoja T, Al-Dagheri NM. National Chronic Metabolic Disease Survey (Part I) Ministry of Health and King Saud University, Riyadh Saudi Arabia (1995)
1996	
30	AL-Nuaim A, Al-Rubeaan K, Al-Mazrou Y, Al-Attas O.S., Al-Dagheri N, Prevalence of hypercholesterolemia in Saudi Arabia Epidemiological study. Int J Card. 54; 41-49(1996).
31	AL-Nuaim A, al-Rubeaan K, Al-Mazrou Y, Al-Attas O.S., Al-Dagheri N, Serum total, fractionated cholesterol concentration and prevalence of overweight and obesity in Saudi Arabia. Int. J. Obesity. 20; 457-552(1996).
32	Al-Nuaim A, Al-Rubeaan K, AlMazrou Y, Khoja T, Al-Attas O.S., Al-Dagheri NM. Prevalence of Diabetes Mellitus, Obesity and Hypercholesterolemia in Saudi Arabia. In "Diet-Related Non-Communicable Disease in the Arab Countries of the Gulf" Edited by Musaiger A, and Miladi S. Book published by FOA Regional office Near East. 73-81 (1996).
33	Al-Attas O.S., Al-Nuaim A . Al-Herbish A . (1996a). The pattern of growth and obesity in Saudi Arabian male school children. Int. J. Obese. 20:1000-1005 (1996)
34	Abdul Rahman Al-Nuaim, MB,FACP, Khalid Al-Rubeaan , MB,FRCP(C), Yagob Al-Mazrou,MB,PhD, Al-Attas O.S,PhD, Al-daghri NM,MSc. Tawfik Khoja , MB, MRCPG , High prevalence of overweight and obesity in Saudi Arabia, Int J. Obesity .20;457-552 (1996).

1997	
35	AL-Nuaim A, Al-Rubeaan K, Al-Mazrou Y, Al-Attas O.S., Al-Dagheri N, Serum Total, fractionated cholesterol concentration and prevalence of hypercholesterolemia in Saudi Arabia, regional variation. Ann. Saudi Medicine. 17;197-184(1997).
36	AL-Nuaim A, Al-Rubeaan K, Al-Mazrou Y, Al-Attas O.S., Al-Dagheri N, khoja. T. (1997b) Population-based epidemiological study on characteristics of risk factors of hypercholesterolemia in Saudi Arabia. Int. J. Cardiol. 31-47-54.
37	AL-Nuaim A, Al-Rubeaan K, Al-Mazrou Y, Kamel, Al-Attas O.S., Al-Dagheri N, Iodine deficiency in Saudi Arabia. Ann. Saudi Med May;17(3):293-7. (1997).
38	AL-Nuaim A. Al-Rubeaan K. Al-Mazrou Y, Al-Attas O.S., Khoja T, Al-Dagheri. National Chronic Metabolic diseases survey (part II). Ministry of Health and King Saud University Riyadh-Saudi Arabia (1997).
2000	
39	Alsaif MA, Lei KY, and Al-Attas O.S. (2000). Comparison between adult Saudi diagnosed and undiagnosed diabetics. FASEB J. 14:A522.
2001	
40	Alsaif MA, Hakim IA, Harris RB, Aloud AA, Lei KY, Al-Attas O.S.(2001). Prevalence and risk factors of obesity and overweight in adult Saudi population. FASEB J. 16:A342.
41	Alsaif MA, Hakim IA, Harris RB, Aloud AA, Lei KY, Al-Attas O.S.(2001). Prevalence and risk factors of Non-Insulin Dependent Diabetes Mellitus in Saudi adults. Congress of Epidemiology 2001 (Abst.). American Journal of Epidemiology (Supp.) PP. S51, Vol. 153(11). June 1,2001.
42	Hakim IA, Alsaif MA, Aloud AA, Al-Attas O.S.(2001). Cross sectional study of the effect of drinking black tea on cardiovascular disease among Saudi Women. Congress of Epidemiology 2001 (Abst.). American Journal of Epidemiology (Supp.) PP. S270, Vol. 153(11). June 1,2001.
2002	
43	Al-Nozah M, Al-Daghri N, Bartlett WA, Al-Attas O.S, Al-Maatouq M, Martin SC, Kumar S, Jones AF. Serum homocysteine concentration is related to diabetes mellitus but not to coronary heart disease in Saudi Arabia. Diabetes Obes Metab 2002 Mar;4(2):118-23.
44	Mohammed A, Alsaif ^{a,*} , Iman A. Hakim ^b , Robin B, Harris ^c , Mansour Alduwaihy ^d , Khalid Al-Rubeaan ^d , Abdul Rahman Al-Nuaim ^d , Omar S. Al-Attas ^d . Prevalence and risk factors of obesity and overweight in adult Saudi population. 2002 Elsevier Science, 22:(1243-1252).

2003	
45	Hakim IA, Alsaif MA , Alduwaihy M, Al-Rubeaan K, Al-Nuaim AR, Al-Attas OS. Tea consumption and the prevalence of coronary heart disease in Saudi adults: results from a Saudi national study. Prev. Med. 2003 36 (1): 64-70.
46	Al-Daghri N, Al-Attas O.S, Patel A, Belyaev ND, Bartlett WA, Jones AF, Kumar S, Bain SC. Association between Taq IB cholesterol ester transfer protein polymorphism and low HDL cholesterol concentration in Saudis. Clinical Science 2003. 105(4) 467-472.
47	Al-Daghri N, K Al-Rubeaan , WA Bartlett, Al-Attas O.S, AF Jones, S Kumar. Serum leptin is elevated in Saudi Arabian patients with metabolic syndrome and coronary artery disease. Diabetic Medicine 2003 Oct. 20(10) 832-837.
2004	
48	N. Al-Daghri ¹ , R. Chetty ² , P.G. McTernan ⁴ , K. Al-Rubeaan ³ , O. Al-Attas ¹ , A.F. Jones ² , and S. Kumar ⁴ . Serum Resistin is associated with C-reactive protein in Type 2 diabetes and population. Medmond S.r.1, Aug. 31- Sep. 4, 2004 (673-681).
49	Al-Nozha MM, Al-Maatouq MA, Al-Mazrou YY, Al-Harthi SS, Arafah, MR, Khalil MZ, Khan NB, Al-Khadra A, Al-Marzouki K, Nouh MS, Abdullah M, Attas O.S., Al-Shahid MS, Al-Mobeireek A. Diabetes mellitus in Saudi Arabia. Saudi Med J. 2004 Nov;25(11):1603-10
2007	
50	Al-Daghri NM, Al-Attas O.S., Al-Rubeaan K. The artherogenic and metabolic impact on non-HDL cholesterol versus other lipid subcomponents among non-diabetic and diabetic Saudis. Lipids Health Dis 2007; 6(1):9. http://www.lipidworld.com/content/6/1/9
51	Al-Daghri NM, Al-Attas O.S., Al-Rubeaan K, Mahieldin M, Al-Katari M, Jones AF, Kumar S. Serum leptin and its relation to anthropometric measures of obesity in pre-diabetic Saudis. Cardiovasc Diabetol 2007; 6:18.
2008	
52	Al-Daghri NM, Al-Attas O.S., Al-Rubeaan K, Sallam R. Adipocytokine profile of type 2 diabetics in metabolic syndrome as defined by various criteria. Diabet Metab Res Rev 2008; 24(1): 52-8.
53	Al-Daghri NM, Al-Attas O.S., Homocysteinemia, hypertension and family history of diabetes in a smoking Saudi male population. Cent Eur J Med 2008; 3(2): 167-172.
54	Al-Daghri NM, Al-Attas O.S., Al-Onazi M, Al-Rubeaan K, Al-Najjar H. Adipocytokines as influenced by family history of type 2 diabetes and smoking in non-diabetic subjects. Clinical Medicine: Endocrinology and Diabetes 2008; 1:13-19.

55	Al-Rubeaan K, Al-Daghri NM, Alkharfy KM, Al-Attas O.S., Hanif FS, Metias NS, Sabico SL. Bioequivalence of Jusline following subcutaneous administration in healthy subjects. Int J Clin Pharmacol Ther 2008; 46:82-88.
2009	
56	Al-Attas O.S., Al-Daghri NM, Appiedu G. Fasting homocysteine levels in a cross section of Saudi adults with type 1 diabetes mellitus Diabetes & Metabolic Syndrome: Clinical Research & Reviews 3 (2009) 45–49.
57	Al-Attas, O.S., Al-Daghri N, Appiedu G. Fasting homocysteine levels in a cross-section of Saudi adults with type 1 diabetes. Diab Met Syndr Clin Res Rev 2009; 3(1):45-49.
58	Al-Daghri NM, Al-Attas O.S., Hussain T, Sabico S, Bamakhramah A. Altered levels of adipocytokines in type 2 diabetic cigarette smokers. Diabetes Res Clin Pract 2009; 83(2):e-37-9.
59	Al-Daghri NM, Al-Attas O.S., Sallam R. Adipocytokine profiles as influenced by insulin resistance in obese subjects. Diab Met Syndr Clin Res Rev 2009; 3(2): 79-83.
60	Al-Attas O.S., Al-Daghri NM, Al-Rubeaan KA, daSilva F, Sabico SL, Kumar S, McTernan PG, Harte AL. Changes in endotoxin levels in T2DM subjects on anti-diabetic therapies. Cardiovasc Diabetol 2009; 8(1):20.
61	Al-Daghri NM, Al-Attas O.S., Alokail M, Draz HM, Bamakhramah A, Sabico S. Retinol binding protein-4 is associated with TNF- α and not insulin resistance in subjects with type 2 diabetes mellitus and coronary heart disease. Dis Markers 2009; 26(3): 135-40.
62	Alokail MS, Al-Daghri NM, Al-Attas OS, Hussain T. Combined effects of obesity and type 2 diabetes contribute to increased risk in premenopausal women. Cardiovasc Diabetol 2009; 8(1):33.
63	Al-Mosalem OA, El-Ansary Al- Attas O.S., Al-Ayadhi L. Metabolic biomarkers related to energy metabolism in Saudi autistic children. Clin Biochem 2009 (42) 10-11): 949-57.
64	Al-Gadani Y, El-Ansary A, Al-Attas O.S., Al-Ayadhi L. Metabolic biomarkers related to oxidative stress and antioxidant status in Saudi autistic children. Clin Biochem 2009; 42(10-11): 1032-40.
2010	
65	Al Jurayyan, El Desouki MI, Al Nuaim AA, Al Attas O.S., Al Dagheri N. urine iodine concentration in neonates with congenital hypothyroidism Curr Pediatr Res 2010; 14 (1): 1-3.
66	Altas, O. and Haffor, A.S.A. (2010) Effects of Hyperoxia Periodic Training on Free Radicals Production, Biological Antioxidants Potential and Lactate Dehydrogenase Activity in the Lung of Rats, Rattus norvigicus Saudi Journal of Biological Sciences, 17(1), 65-71. KSA

67	Al-Daghri NM, Al-Attas OS, Alokail MS, Alkharfy KM, Draz H. Serum resistin and aPAI-I levels in relation to insulin resistance and markers of obesity in Saudi children. <i>Pediatr Int</i> 2010; Aug; 52(4):551-6.
68	Al-Daghri NM, Alokail MS, Al-Attas OS, Al-Rubeaan K, Sabico S, Kumar S. Establishing abdominal height cut-offs and their association with conventional indices of obesity among Arab children and adolescents. <i>Ann Saudi Med</i> 2010; 30(3): 209-14.
69	Al-Attas O.S., Al-Daghri N, Bamakhramah A, Sabico S, Huang T, McTernan P. Telomere length in relation to insulin resistance, inflammation and obesity among Arab youth. <i>Acta Paediatr</i> 2010; 99(6): 896-899.
70	Alkharfy K, Aldaghri NM, Al-Attas OS, Alokail M, Draz HM, Hussain T. Endothelial nitric oxide synthase gene polymorphisms (894>T and -786>C) and risk of coronary artery disease in a Saudi population. <i>Arch Med Res</i> 2010; 41(2): 134-141.
71	Al-Daghri NM, Al-Attas OS, Alokail MS, Alkharfy KM, Al-Yousef M, Nadhrah H, Sabico S, Chrousos G. Severe hypovitaminosis D is widespread in Saudi adults and is more common in non-diabetics than diabetics. <i>Saudi Med J</i> 2010; 31(7): 775-780.
72	Al-Attas OS, Al-Daghri NM, Alokail MS, Al-Fadda A, Bamakhramah A, Sabico S, Pritlove D, Harte A, Tripathi G, McTernan PG, Kumar S, Chrousos G. Adiposity and insulin resistance correlate with telomere length in middle-aged Arabs: the influence of circulating adiponectin. <i>Eur J Endocrinol</i> 2010 Oct;163(4):601-7.
73	Al-Daghri NM, Al-Attas OS, Alokail MS, Alkharfy KM, Sabico, S, Chrousos GP. Decreasing Prevalence of the Full Metabolic Syndrome but a Persistently High Prevalence of Dyslipidemia among Adult Urban Saudis. <i>PLoS One</i> 2010; 5(8): e12159.
74	Al-Daghri NM, Al-Attas OS, Alokail MS, Alkharfy KM, Yousef M, Nadhrah HM, Al-Othman A, Al-Saleh Y, Sabico S, Chrousos GP. Hypovitaminosis D and cardiometabolic risk factors among non-obese youth. <i>Cent Eur J Med</i> 2010 5 (6) 752-757.
75	Al-Daghri NM, Al-Attas OS, Alokial MS, Shaik NA, Draz H, Bamakhramah A, Sabico S. Gender-specific Associations between Insulin Resistance, Hypertension, and Markers of Inflammation among Adult Saudis with and without Diabetes Mellitus Type 2. <i>Adv Med Sci</i> 2010; 55(2): 179-85.
2011	
76	Al-Daghri NM, Al-Attas OS, Alokial MS, Tajamul H. Adiponectin gene variants and risk of coronary artery disease in patients with type 2 diabetes. <i>Mol Biol Rep</i> 2010; Nov. 8, 2011
77	Alkharfy KM, Al-Daghri NM, Al-Attas OS, Alokail MS. The Protective Effect of Thymoquinone against Sepsis Syndrome Morbidity, Mortality and Associated Organ Dysfunctions in Mice. <i>Int J Immunopharmacol</i> ; 2011.
78	Alokail MS, Al-Daghri NM, Al-Attas OS, Alkharfy KM, Sabico S, Ullrich A. Visceral obesity and Inflammation Markers in Relation to Serum Prostate Volume Markers among Apparently Healthy Men. <i>Eur J Clin Invest</i> 2011; January 25, 2011.
79	Al-Daghri NM, Al-Attas OS, Alokail MS, Alkharfy KM, Yakout SM, Sabico S, Gibson G,

	Chrousos GP, Kumar S. Parent-Offspring Transmission of Adipocytokine Levels and Their Associations with Metabolic Traits. PLoS One 2011. Feb 22, 2011.
80	Al-Daghri NM, Al-Attas OS, Alokail MS, Alkharfy KM, Sabico SLS, Chrousos GP. Diabetes Mellitus Type 2 and other Chronic Non-Communicable Diseases in the Central Region, Saudi Arabia (Riyadh Cohort 2): A Decade of an Epidemic. BMC Medicine. April 27, 2011.
81	Al-Daghri NM, Al-Attas OS, Alokail MS, Alkharfy KM, El-Kholie E, Yousef M, Al-Othman A, Al-Saleh Y, Sabico S, Kumar S, Chrousos GP. Increased Vitamin D Supplementation Recommended during Summer Season in the Gulf Region: A Counterintuitive Seasonal Effect in Vitamin D Levels in Adult, Overweight and Obese Middle-eastern Residents. Osteoporosis Int 2011.
82	Al-Daghri NM, Al-Attas OS, Alokail MS, Alkharfy KM, Tajamul H. Adiponectin Gene Polymorphisms (T45G and G276T), Adiponectin Levels and Type 2 Diabetes Risk in a Saudi Population. Mol Biol Rep 2011.
83	Zhengtang Qi, Jie He, Yuhui Su, Qiang He, Jingxia Liu, Lu Yu1, Omar Al-Attas, Tajamul Hussain, Shuzhe Ding, Liu Ji, Min Qian. Physical Exercise Regulates p53 Activity Targeting SCO2 and Increases Mitochondrial COX Biogenesis in Cardiac Muscle with Age. PLoS One 2011
84	Nasser Al-Daghri, Omar Al-Attas, Majed S. Alokail, Khalid Alkharfy, Tajamul Hussain and shaun Sabico. Gender Difference Exist in the Association of Leptin and Adiponectin Levels with Insulin Resistance Parameters in Pre-pubertal Arab Children. Journal of Pediatric and Metabolism 2011.
85	Md. Aminul Hoque, Atefeh Taherian Fard, Md. Mosfequr Rahman, Omar Alattas, Kohei Akazawa & Amir Feisal Merican. Comparison of dynamic responses of cellular metabolites in Escherichia coli to pulse addition of substrates. Biologia 2011.
86	Al-Daghri NM, Alkharfy KM, Al-Saleh Y, Al-Attas OS, Alokail MS, Al-Othman A, Moharram O, Sabico S, Kumar S, Chrousos GP. Modest Reversal of Metabolic Syndrome Manifestations with Vitamin D Correction: A 12-month Prospective Study. Metabolism 2011
87	Al-Attas OS, Al-Daghri NM, Alfadda A, Abd Al-Rahman SH, Sabico S. Blood Thiamine and Derivatives as measured by High-Performance Liquid Chromatography: Levels and Associations in DM Patients with Varying Degrees of Microalbuminuria. J Endocr Invest 2011
88	Al-Daghri NM, Al-Attas OS, Alokail MS, Tajamul H, Sabico S. Gender differences in association with leptin and adiponectin levels with insulin resistance parameters in pre-pubertal Arab children. J Pediatr Endocrinol Metab 2011
89	Al-Daghri NM, Alkharfy KM, Al-Saleh Y, Al-Attas OS, Alokail MS, Al-Othman A, Moharram O, El-Kholie E, Sabico S, Kumar S, Chrousos GP. Metabolism. 2012 May; 61(5):661-6. Journal metabol.2011.
2012	
90	Bharti S, Singh R, Chauhan SS, Hussain T, Al-Attas OS, Arya DS. Phosphorylation of Akt/GSK-3 β /eNOS amplifies 5-HT _{2B} receptor blockade mediated anti-hypertrophic effect

	in rats. FEBS Lett. 2012 Jan 20;586(2):180-5.
91	Harte AL, Varma MC, Tripathi G, McGee KC, Al-Daghri NM, Al-Attas OS, Sabico S, O'Hare JP, Ceriello A, Saravanan P, Kumar S, McTernan PG. High fat intake leads to acute postprandial exposure to circulating endotoxin in type 2 diabetic subjects. <i>Diabetes Care</i> . 2012 Feb;35(2):375-82.
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93	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. <i>Endocr J</i> . 2012;59(3):253-63.
94	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. <i>Endocr J</i> . 2012;59(3):253-63.
95	Al-Musharaf S, Al-Othman A, Al-Daghri NM, Krishnaswamy S, Yusuf DS, Alkharfy KM, Al-Saleh Y, Al-Attas OS, Alokail MS, Moharram O, Yakout S, Sabico S, Chrousos GP., Vitamin D deficiency and calcium intake in reference to increased body mass index in children and adolescents. <i>Eur J Pediatr</i> . 2012 Jul;171(7):1081-6
96	Hussain T, Al-Daghri NM, Al-Attas OS, Draz HM, Abd Al-Rahman SH, Yakout SM. Plasma neuropeptide Y levels relate cigarette smoking and smoking cessation to body weight regulation. <i>Regul Pept</i> . 2012 Jun 10;176(1-3):22-7
97	Al-Attas OS, Al-Daghri NM, Alokail MS, Alkharfy KM, Alfadda AA, McTernan P, Gibson GC, Sabico SB, Chrousos GP. Circulating leukocyte telomere length is highly heritable among families of Arab descent. <i>BMC Med Genet</i> . 2012 May 18;13:38
98	Bharti S, Singh R, Kumar R, Malik S, Hussain T, Al-Attas OS, Arya DS. Hsp70 overexpression coordinately regulates myocardial hypertrophy, fibrosis and contractile function in 5-HT(2B) blockade mediated anti-hypertrophic effect <i>Biochim Biophys Acta</i> . 2012 May 29.
99	Al-Othman A, Al-Musharaf S, Al-Daghri NM, Krishnaswamy S, Yusuf DS, Alkharfy KM, Al-Saleh Y, Al-Attas OS, Alokail MS, Moharram O, Sabico S, Chrousos GP. Effect of physical activity and sun exposure on vitamin D status of Saudi children and adolescents. <i>BMC Pediatr</i> . 2012 Jul 3;12:92.
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103	He J, Qi Z, Su Y, He Q, Liu J, Yu L, Al-Attas OS, Hussain T, De Rosas ET, Ji L, Ding S. Pifithrin- μ increases mitochondrial COX biogenesis and MnSOD activity in skeletal muscle of middle-aged mice. Mitochondrion. 2012 Nov;12(6):630-9.
104	Al-Attas OS, Al-Daghri NM, Alkharfy KM, Alokail MS, Al-Johani NJ, Abd-Alrahman SH, Yakout SM, Draz HM, Sabico S. Urinary iodine is associated with insulin resistance in subjects with diabetes mellitus type 2. Exp Clin Endocrinol Diabetes. 2012 Nov;120(10):618-22.
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2013	
106	Al-Saleh Y, Al-Daghri NM, Alkharfy KM, Al-Attas OS, Alokail MS, Al-Othman A, Sabico S, Chrousos GP. Normal circulating PTH in Saudi healthy individuals with hypovitaminosis D. Horm Metab Res. 2013 Jan;45(1):43-6.
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108	Al-Daghri NM, Al-Attas OS, Alokail MS, Alkharfy KM, Charalampidis P, Livadas S, Kollias A, Sabico SL, Chrousos GP. Visceral adiposity index is highly associated with adiponectin values and glycaemic disturbances. Eur J Clin Invest. 2013 Feb;43(2):183-9.
109	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). 2013 Mar 1.
110	Widad M. Al-Bishri, Omar S. Al-Attas., Guggul Resin Extract Improve hyperglycemia and Lipid Profile in Streptozotocin Induced Diabetes Mellitus in rats. Life Science Journal 2013;10(1) http://www.lifesciencesite.com/
111	Waleed Albakr, Al-Shareef Mohammad, Al-Mulhim Mohammed, Amar H. Khamis., Prevalence and Risk Factors of Diabetes Mellitus (I & II) in a Sample of Adults Population of Al-Khobar City, Saudi Arabia, within 2010-2011. Life Science Journal 2013;10(1). http://www.lifesciencesite.com/

112	Nasser Al-Daghri; Omar Al-Attas; Khalid Alkharfy; Nasiruddin Khan; Abdul Khader Mohammed; Benjamin Vinodson; Mohammed Ghouse Ahmed Ansari; Amal Alenad; Majed Alokail., Interaction of VDR-Gene Variants with Factors Related to the Metabolic Syndrome, Type 2 Diabetes and Vitamin D Deficiency., PLOS ONE [Submitted 2013]
113	Naji J Aljohani, Nasser M Al-Daghri, Omar S. Al-Attas, Majed S Alokail, Khalid M. Alkharfy, Abdulaziz Alothman, Sobhy Yakout, Abdulaziz F Alkabba, Ahmed S Al-Ghamdi, Mussa Almalki, Badurudeen M Buhary and Shaun Sabico, Differences and Associations of Metabolic and Vitamin D Status among Patients with and without Sub-clinical Hypothyroid Dysfunction, BMC Medicine, 2013 (approved for pub)
114	N. Al-Daghri, O. Al-Attas, K. Alkharfy, M. S. Alokail, Sheriff H. Abd-Alrahman, Shaun Sabico, Thiamine and its Phosphate Esters in Relation to Cardiometabolic Risk Factors in Saudi Arabs, BMC Medicine, 2013 (approved for pub)
2014	
115	Al-Attas OS, Al-Daghri NM, Alokail MS, Alkharfy KM, Khan N, Alfawaz HA, Aiswaidan IA, Al-Ajlan AS, Chrousos GP. Association of dietary fatty acids intake with pro-coagulation and inflammation in Saudi Adults. Asia Pac J Clin Nutr. 2014;23(1):55-64. doi: 10.6133/apjcn.2014.23.1.12.
116	Hussain T, Al-Attas OS, Al-Daghri NM, Mohammed AA, De Rosas E, Ibrahim S, Vinodson B, Ansari MG, El-Din KI. Induction of CYP1A1, CYP1A2, CYP1B1, increased oxidative stress and inflammation in the lung and liver tissues of rats exposed to incense smoke. Mol Cell Biochem. 2014 Feb 21.
117	Al-Attas O, Al-Daghri N, Alokail M, Abd-Alrahman S, Vinodson B, Sabico S. Metabolic Benefits of Six-month Thiamine Supplementation in Patients With and Without Diabetes Mellitus Type 2. Clin Med Insights Endocrinol Diabetes. 2014 Jan 23;7:1-6.
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119	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.
120	Al-Daghri NM, Al-Attas OS, Alokail MS, Alkharfy KM, Yousef M, Vinodson B, Amer OE, Alnaami AM, Sabico S, Tripathi G, Piya MK, McTernan PG, Chrousos GP. Maternal inheritance of circulating irisin in humans. Clin Sci (Lond). 2014 Jun 1;126(12):837-44.

121	Al-Daghri NM, Al-Attas OS, Alokail M, Alkharfy K, Wani K, Amer OE, Ul Haq S, Rahman S, Alnaami AM, Livadas S, Kollias A, Charalampidis P, Sabico S. Does visceral adiposity index signify early metabolic risk in children and adolescents?: Association with insulin resistance, adipokines, and subclinical inflammation. <i>Pediatr Res</i> . 2014 Mar;75(3):459-63.
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123	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 inflammosomal activity. <i>PLoS One</i> . 2014 Jul 14;9(7):e102141. doi: 10.1371/journal.pone.0102141. eCollection 2014.
124	Al-Daghri NM, Al-Othman A, Al-Attas OS, Alkharfy KM, Alokail MS, Albanyan A, Sabico S, Chrousos GP., Stress and cardiometabolic manifestations among Saudi students entering universities: a cross-sectional observational study. <i>BMC Public Health</i> . 2014 Apr 23;14:391.
125	Al-Daghri NM, Al-Othman A, Albanyan A, Al-Attas OS, Alokail MS, Sabico S, Chrousos GP., Perceived stress scores among Saudi students entering universities: a prospective study during the first year of university life. <i>Int J Environ Res Public Health</i> . 2014 Apr 10;11(4):3972-81
126	Al-Daghri NM, Al-Attas OS, Alkharfy KM, Khan N, Mohammed AK, Vinodson B, Ansari MG, Alenad A, Alokail MS., Association of VDR-gene variants with factors related to the metabolic syndrome, type 2 diabetes and vitamin D deficiency. <i>Gene</i> . 2014 Jun 1;542(2):129-33.
127	Naushad SM, Hussain T, Al-Attas OS, Prayaga A, Digumarti RR, Gottumukkala SR, Kutala VK., Molecular insights into the association of obesity with breast cancer risk: relevance to xenobiotic metabolism and CpG island methylation of tumor suppressor genes. <i>Mol Cell Biochem</i> . 2014 Jul;392(1-2):273-80.
128	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. <i>Clin Endocrinol (Oxf)</i> . 2014 Apr;80(4):532-7.
129	Tsivgoulis G, Vadikolias K, Heliopoulos I, Katsibari C, Voumvourakis K, Tsakalidis S, Boutati E, Vasdekis SN, Athanasiadis D, Al-Attas OS, Charalampidis P, Stamboulis E, Piperidou C., Prevalence of symptomatic intracranial atherosclerosis in Caucasians: a prospective, multicenter, transcranial Doppler study. <i>J Neuroimaging</i> . 2014 Jan-Feb;24(1):11-7.

130	Al-Daghri N, Al-Attas O, Johnston H, Singhanian A, Alokail M, Alkharfy K, Abd-Alrahman S, Sabico S, Roumeliotis TI, Manousopolou Manousopoulou-Garbis A, Townsend P, Woelk C, Chrousos GP, Garbis SD. The effect of vitamin D status correction on the human milieu interieur proteome: a year-long prospective interventional study. J Proteome Res 2014; 13 (11): 5094-105 .
131	Al-Daghri NM, Alkharfy KM, Alokail MS, Alenad AM, Al-Attas OS, Mohammed AK, Sabico S, Albagha OME. Replication of genome wide association-validated loci for type 2 diabetes in the Saudi Arabian population. Clin Endo 2014; 126(12): 837-44.
132	Al-Daghri NM, Al-Othman A, Al-Attas OS, Alkharfy KM, Alokail MS, Albanyan, A, Sabico S, Chrousos GP. Stress and Cardiometabolic manifestations among Saudi students entering universities: A cross-sectional observational study. BMC Public Health 2014; 14:391.
2015	
133	Al-Daghri NM, Aljohani N, Alokail MS, Al-Attas OS, Al-Saleh Y, Wani K, Alnaami AM, Alfawaz H, Al-Ajlan ASM, Kumar S, Chrousos GP. Non-High Density Lipoprotein Cholesterol and other Lipid Measures in Arab Adolescents. J Clin Lipidol 2015; [Accepted Nov 6, 2014]
134	Al-Attas OS, Hussain T, Ahmed M, Al-Daghri N, Mohammed AA, De Rosas E, Gambhir D, Sumague TS. Ultrastructural changes, increased oxidative stress, inflammation and altered cardiac hypertrophic gene expressions in heart tissues of rats exposed to incense smoke. Environ Sci Pollut Res 2015; [Epub ahead of print].
135	Al-Daghri NM, Al-Attas OS, Yakout S, Aljohani N, Al-Fawaz H, Alokail MS. Dietary products consumption in relation to serum 25-hydroxyvitamin D and selenium level in Saudi children and adults. IJCEM 2015; Accepted January 13, 2015.

FUNDED RESEARCH PROJECTS

PROJECT TITLE	SUPPORTING INSTITUTION
1. Status of insulin and c-peptide in newly diagnosed Saudi diabetics (Bio/1404/38).	College of Science, Research Center, King Saud University.
2. The role of autoimmunity in the development of gestational diabetes mellitus (Bio/1412/15)	College of Science, Research Center, King Saud University.
3. Study on some etiological factors of gestational diabetes mellitus among Saudis (Bio/1412/15)	College of Science, Research Center, King Saud University
4. Epidemiological Survey on Endemic Goiter among School children in Gizan Region, Saudi Arabia	MOH and KSU Faculty of Medicine 1989-1990
5. Studies on Gestational Diabetes Mellitus in Saudis. In Collaboration with Prince Salman Bin Abdulaziz Hospital in Riyadh	MOH and KSU Faculty of Medicine 1991 – 1994
6. Screening of Chronic Disease in Saudi Arabia. In Collaboration with the General Directorate of Primary Health Care Ministry of Health	MOH and KSU Faculty of Medicine 1990 - 1994
7. Study the Lipid Profile Levels in Saudis	MOH and KSU Faculty of Medicine 1996
8. Coronary artery disease in Saudi Arabia	MOH and KSU Faculty of Medicine 1997-2002
9. Analysis of Iodine in Urine in Saudis	UNICEF and KSU Faculty of Medicine 1993
10. Insulin resistance, adverse metabolic profile and premature biological aging in overweight children	King Abdulaziz City for Science and Technology 2007
11. Serum polycyclic aromatic hydrocarbons among Saudi Asthmatic children: correlation to environmental and dietary factors	King Abdulaziz City for Science and Technology 2005-2007
12. Defining the potential mediators of sub-clinical inflammation in obesity mediated type 2 diabetes	Deanship of Scientific Research 2005-2007
13. Measurement of leptin level in women as	SABIC 2004-2006 Research Center College of Science 2005-2007
	Research Center College of Science 2005-2007

indicator for some chronic diseases

14. Adipocytokin profile in metabolic syndrome as defined by various criteria

Research Center College of Science
2006

15. Correlation of serum adipocytokines to family history of diabetes mellitus and smoking history in non-diabetic subjects

Research Center College of Science
2007

16. Fasting homocysteine levels in adults with type 1 diabetes mellitus link with cardiovascular complications and other risk enhancers

King Abdulaziz City for Science and
Technology 2007

17. Effects of Cadmium Toxicity on the Activities of Lactate Dehydrogenase and Monoamine Oxidase in the lung of Adult Male Rats

Program of National Plan for
Science and Technology 2009

18. Insulin resistance, adverse metabolic profile and premature biological aging in overweight children (Telomerase)

King Abdulaziz City for Science and
Technology 2009

19. Clinical and metabolic significance of sagittal abdominal diameter among Saudi youth: a cross sectional analysis (SAD)

20. Survey of thiamine, thiamine-dependent enzymes and biochemical dysfunction status in type 1 and type 2 diabetic patients with and without complication (Thiamine)

BOOKS

1. By designation of the General Foundation of Technical Education and Training this book was accomplished (1988).

✚ Al-Attas O.S., al-Jaafari AA, al-Nasser IA. **Biochemistry for Health Control in Arabic.**

2. By designation of the General Directorate of Health Colleges and Institute, Ministry of Health (1991).

✚ Sedrani SH, Al-Attas O.S., **Principles of Biochemistry 2nd Level, Laboratory Section.**

3. **Introduction to Biochemistry**

By (Prof. Omar S. Al-Attas, Prof. Maged S. Al-Okail, Prof. Nassir M. Al-Daghri, Dr. Adel A. Al-Ghanim, 1432

CONFERENCES AND SYMPOSIUMS

1. **2015 Conference on Advances in Biochemistry and Molecular Biology**
Omar Al-Attas (Oral Presentation) Visceral Adiposity Index is Highly Associated with Adiponectin Values and Glycemic Disturbances
Suzhou, China., March 18-20, 2015
2. **International Science Conference 2014 “Pushing the Boundaries”**
Singapore, Nov 25- Nov 27, 2014
3. **10th Asia Pacific Congress on Hypertension**
Omar Al-Attas (Abstract Presentation) <http://www.apch2014.org/>
Cebu, Philippines, February 12-15, 2014
4. **The Saudi International Biotechnology Conference 2012 (KACST)**
Nanoscale Materials for Health Technologies: From Science and Engineering to Clinical Translation
Riyadh, KSA Sept 18-19, 2012
5. **The 10th International Conference on Bone and Mineral Research & 12th International Osteoporosis Symposium**
Omar S. Al-Attas, Nasser M. Al-Daghri., Increased Vitamin D Supplementation Recommended during Summer Season in the Gulf Region: A Counterintuitive Seasonal Effect in Vitamin D Levels in Adult, Overweight and Obese Middle-eastern Residents.
Xian, China- April 12-15, 2012
6. **World Diabetes Congress, International Diabetes Federation**
Dubai, UAE – Dec 4-8, 2011
7. **The 4th International Congress on Prediabetes and The Metabolic Syndrome**
Madrid, Spain - April 6-9, 2011
8. **The 4th International of Biomarkers in Chronic Diseases**
Riyadh, Saudi Arabia - May 4-16, 2010
9. **The 20th World Diabetes Congress**
Montreal, Canada 2009
10. **The 15th European Congress on Obesity**
Al-Attas O.S., Adipocytokine profile in metabolic syndrome as by various criteria.
Budapest, Hungary - 2007
11. **The 21th Symposium of the Federation of the International Donor Symposia of Diabetes Mellitus**
Al-Attas O.S., Al-Daghri N. Plasma resistin and leptin levels in male and female normal subjects: Correlations with fat mobilization
Riga, Latvia – 2006
12. **The 4th Asian Congress of Dietetics**

Al-Attas O.S., Al-Daghri N, K Al-Rubean, Bartlett WA, Martin SC, Kumar S, Jones AF. Fasting Plasma Homocysteine Concentration is Higher in Elderly People and Associated with Glucose in the Metabolic Syndrome.
Manila, Philippines – 2006

13. **The 1st International Congress on 'PREDIABETES' and the Metabolic Syndrome**
Al-Attas O¹, Al-Daghri N¹, Al-Rubian K¹, Kumar S², Jones AF². Homocystein levels in Saudis with Impaired Glucose Tolerance Test and Diabetes Mellitus
Berlin, Germany – 2005
14. **The 15th International meeting on chemistry Education**
 - a. Al-Attas O.S., al Nuaim A, Al Rubeaan K, Al Dagheri NM. Clinical Biochemistry Role in Diabetes Mellitus in Saudi Arabia.
 - b. Al Dagheri NM, Al-Attas O.S., Al Nuaim A, Sulimani R. Iodine determination in urine, water and Arabic staple foods: A comparative evaluation of iodine selective electrode, Calorimetric and HPLC methods.
Cairo, Egypt – 1999
15. **The 11th Asian Conference on Endocrinology**
Al-Attas O.S., Effect of Pregnancy on Insulin Receptor Binding in Gestational Diabetes Mellitus.
Seul, South Korea – 1998
16. **The 15th meeting for Chemistry Education**
Aen Shams University, Cairo, Egypt – 1998
17. **The 11th Asia – Oceania Congress of Endocrinology**
Al-Attas O.S., Effect of Pregnancy on Insulin Receptor Binding in Gestational Diabetes Mellitus. Endocrinology
Seoul, Korea – 1998
18. **The 3rd International Meeting on Diabetes Mellitus in West Pacific Countries**
Al-Attas O.S., Al-Dagheri, Effect of Some Etiological Factors on Insulin Target Sensitivity in GDM and Women at Risk of Development it.
Hong Kong - 1997
19. **The 1st International Workshop on Gestational Diabetes in GCC Countries**
Al-Attas O.S., Effect of Some Etiological Factors on insulin Target sensitivity in GDM and Women High Risk of Developing it.
Riyadh, Kingdom of Saudi Arabia – 1995
20. **Gulf Countries, King Fahad Hospital**
Affect of some etiological factors on insulin target sensitivity in GDM and women at high risk of developing it.
National Guard – 1995
21. **The 2nd and 3rd Diabetes Education Course**
Al-Attas O.S., Monitoring diabetes patients part III venous blood testing, HbA1c and frucosamine. Diabetic Center, College of Medicine, King Abdulaziz University Hospital, Riyadh, Saudi Arabia - January 1995

22. **The 1st Arab-African Conference on Clinical Biochemistry**
Al-Attas O.S., Al Taib, Al-Nuaim A, Al-Okail, Al Dagheri NM, Vigo N, Bukair A, Khan T, Marie ME, Hassonah H. Prospective study on the etiology of gestational diabetes mellitus. Syria – 1994
23. **The 2nd Symposium on Gestational Diabetes International,**
Al-Attas O.S., Al Taib, Al Nuaim A, Al Okail M, Al Dagheri NM, Vigo N, Bukair A, Khoga T, Marie M, Hassonah M. prospective study on the etiology of gestational diabetes mellitus.
Prince Salman Bin Abdulaziz Hospital, Riyadh, K.S.A – November 1993
24. **International Conference on Medical Science**
a. Al-Attas O.S., Laajam MA, Khan MS, Al-Drees AZ, Vigo N. Residual beta function in newly diagnosed diabetic patient in Saudi Arabia.
b. Al-Okail M.S., Al-Attas O.S., Vigo NT; Characterization of insulin receptor interaction in Saudi diabetic pregnancy.
c. Laajam MA, Jim LK, El Bolbol, Bashi SA, Al-Khayal LA, Al-Attas O.S., Sulimani RA, Guar gum in non-insulin dependent diabetic patients mellitus: A double blind crossover placebo control trail in Saudi Arabian patients.
Kuwait - 1990
25. **The 2nd National Meeting of Chemists**
Al-Attas O.S., Laajam MA, Khan Ms, Al-Drees AZ Salman H., Beta cell function in newly diagnosed Saudi diabetic patients.
King Saud University.
Riyadh-1987.
26. **The 2nd National Meeting of Chemists**
Al-Attas O.S., Insulin receptor and insulin action.
King Saud University.
Riyadh – 1987
27. **British Diabetic Association (BDA)**
Meeting Al-Attas O.S., Taylor R, Whittaker JA., Comparison of methods for the preparation of purified insulin receptor.
Dublin – 1982
28. **Meeting of European Association for study of Diabetes (EASD)**
Whittaker J, Hammond V, Al-Attas O.S., Alberti KGMM, Insulin interaction with hepatocytes: Evidence for ligand stimulated acceleration pinocytosis.
Amsterdam – 1982
29. **Symposium on Diabetes Mellitus**
Laajam MA, Al-Attas O.S., Khan MS, Al Drees AZ. Clinical characteristics and C-peptide status in 200 newly diagnosed Saudi diabetics
Riyadh, K.S.A – 1986
30. **The 2nd International Symposium on Insulin Action and Insulin Receptor**
Al-Attas O.S., Taylor R, Whittaker J, Aberti KGMM, Cooperative and non-cooperative insulin binding sites in rat liver membranes.

Rome, Italy 1983

OTHER ACTIVITIES

COMMITTEE

1. Member of the Curriculum and Extra-Curricular Committee in the department of Biochemistry, 1984-1988.
2. Convener of the Instruments and Materials Committee in the Department of Biochemistry, 1987-1988.
3. Member of the Equalization and Annual Report Committee in Department of Biochemistry, 1987-1988.
4. Member of the Committee for Managing the Affairs of Demonstrators and Distinguished Students in the Department of Biochemistry , 1988 to date .
5. Member of the Academic Supervision Committee in the College of Science, 1987.
6. Member of the Instruments and Materials Committee in the College of Science, 1986-1994.
7. Member of the Executive Committee for the Second National Meeting of Chemists, King Saud University, 1987.
8. Convener of the Publicity Committee for Second National Meeting of Chemists, King Saud University, 1987.
9. Leader of the Social Activities Committees, College of Science, King Saud University, 1988-1989.
10. Convener of the Instruments and Materials Committee in the Department of Biochemistry, 1990-1993.
11. Convener of the Higher Studies Committee in the College of Science, 1996-1998.
12. Member of Scientific Programs Committee in College of Applied Studies, 2000-2002.
13. Member of the Cooperative Education Committee in the University, 2003.
14. Member in the Committee for Saudis' Substitution in the University, 2000 to date.
15. Member in the Committee for preparing the 8th Development Plan in the University during, 2004- to date.
16. Member Committee of the Commission on development of student labs, 9/2010 to date
17. Member of the Standing Committee to assess the reality of polarization, 10/2010 to date
18. Member Committee of the study the situation of researchers working chairs and institutes of the University, 12/2009 to date
19. Member Committee of the Alumni Affairs department, 09/2010 to date
20. Member Committee of the teaching assistants scholarships section, 09/2010 to date
21. Member the Standing Committee to increase salaries, 10/2010 to date

COUNCILS

1. Member in the College of Science Board, (1985-1986),(1988-1990) and 2001- to date.
2. Member in the Editorial Board of the International Diabetes Digest, 1994 to date.
3. Member in the Higher Studies Board of the University, 1996-1998.
4. Member in Saudi Chemical Society, 1997 to date.
5. Editor in Chief of Chemistry Education Journal, 1997 to 2001.
6. Member of the University Board, 2001 to 2006.

ACADEMIC TEACHING *(taught the following courses at King Saud University 1984 to date)*

BACHELOR PROGRAM

- ✚ General Biochemistry
- ✚ Biomolecules
- ✚ Blood Chemistry
- ✚ Introduction to Biochemistry
- ✚ Introduction to Biochemistry (for agriculture students)
- ✚ General Biochemistry (for education students)
- ✚ Microanalysis of Biochemical Compounds
- ✚ Carbohydrate Metabolism
- ✚ Hormones
- ✚ Analysis of Biological Fluid
- ✚ Biochemical Technique
- ✚ Biochemistry of Specialized Tissues
- ✚ Immunochemistry
- ✚ Disorders of Metabolism
- ✚ Tissue Chemistry and biological Fluids
- ✚ Research Project I
- ✚ Research and Seminar
- ✚ Research Project II

Undergrad Teaching load

- ✚ Blood Biochemistry BCH 471 (1435-1436)

MASTER PROGRAM

- ✚ Advance Studies on Regulation of Metabolism (M.Sc.)
- ✚ Biochemistry of Endocrine Glands (M.Sc.)
- ✚ Biochemistry of Blood (M.Sc.)
- ✚ Thesis (M.Sc.)

Graduate Teaching load

- ✚ Biochemical Endocrinology BCH 560 (1435-1435)

UNIVERSITY AND COMMUNITY SERVICES

1. Referee for proceeding of the 2nd National meeting of Chemists, King Saud University 1988.
2. Referee for research projects submitted to King Abdulaziz for Science and Technology 1985-1992.
3. Referee for research projects submitted to the Research Center, King Abdulaziz University 1988-1997.
4. Participated in the Chemistry & Biology training course for Secondary School teachers 1984-1985.
5. Participated in the course for the Diabetic Educators, King Abdulaziz Hospital 1994-1995.
6. Effect of Induced Diabetes Mellitus on Embryo Implantation and Pregnancy in Rabbits.
7. Supervisor, Co-supervisor*, Assisted § in the following M.Sc. thesis projects:
 - a. The molecular basis of insulin-receptor interaction in Saudi diabetic pregnancy women (Biochemistry 1990).
 - b. The relationship between diabetogenic factors and insulin receptor status in Saudi gestational diabetes (Biochemistry 1992).
 - c. A study on the lipid composition of the uterine fluids during the normal time of Embryo Implantation in rabbits (Zoology-1995)*.
 - d. Determination of nitric oxide in gestational human placenta (Biochemistry 1997).
 - e. Studying of risk factor in coronary artery disease (Biochemistry 1998).
 - f. Effect of induced diabetes mellitus on Embryo Implantation pregnancy in Rabbits (Zoology-1999)*.
 - g. Factor V gene mutation in Patients with deep vein thrombosis (Biochemistry 2004).
 - h. Evaluation of Zinc Protoporphyrin (ZPP) as diagnostic tool the diagnosis of Iron deficiency anemia on peripartum women (Biochemistry 2004).
 - i. Screening for Paraoxonase gene polymorphisms in a Saudi population: Implications in cardiovascular disease (Biochemistry 2010)
 - j. Paraoxonase gene polymorphisms and protein status in a Saudi cohort of normal and coronary artery disease subjects (Biochemistry 2010)
 - k. The protective effects of wheat germ oil supplementation on lipid profile and oxidative stress against statins in rats with myocardial ischemia (Biochemistry 2012-2014) §.
 - l. The antioxidant and anti-inflammatory effects of broccoli, sprout and flaxseed on ulcerative colitis progression in rats (Biochemistry 2012-2014) §.
 - m. Molecular and biochemical aspects of sound aggregates and hardening of coronary artery disease (Biochemistry 2011).
8. Referee research project submitted by The Science and Technology Program Emirates Foundation for Philanthropy 2010.







9. Referee for promotion from Assistant Professor to Associate Professor submitted by King Abdulaziz University, Feb, 2010.
10. Referee for promotion from Assistant Professor to Associate Professor submitted by Qassim University, Feb, 2011.
11. Referee for promotion from Assistant Professor to Associate Professor submitted by Al Jouf University, Feb 2013
12. Referee for promotion from Associate Professor to Professor submitted by Al-Mustansiriya, Baghdad, Iraq , April, 2013
13. Reviewer for the following M.Sc. thesis papers:
 - a. Effect of experimental liver damage on some physiological parameters in rats (Zoology-1991).
 - b. Studies on gamma-crystalline from camel eye lens (Biochemistry 1992).
 - c. A histochemical study on lipids in the rabbit the normal time of implantation (Biochemistry 1995).
 - d. Laboratory study of microbial cleaning of oil spilled in marine and terrestrial areas: Application in Saudi Arabia (Biochemistry 1995).
 - e. Four parameters for measuring of the toxicity endotoxins (Microbiology 1996).
 - f. Effect of the ophyline on plasma and urine total free and acylcarnitine concentration in rats (Biochemistry 1996).
 - g. A study of some causes of coronary heart disease in diabetic patients by molecular Biology Methods (Biochemistry 2000).
 - h. Levels of Plasma leptin, lipids, and Insulin in pre- and postmenopausal females (Biochemistry 2003).
 - i. Effect of Mercuric Chloride on the urinary excretion of total, free and acyle carnitine in rats (Biochemistry 2004).
 - j. Modification of a method for determining microgram quantities of some elements in infant cereal with milk by atomic absorption spectroscopy (Chemistry 2004).
 - k. Resistin Gene as Putative link between type 2 diabetes mellitus and obesity in Saudi patients (Biochemistry 2004).
 - l. Total, free, short and long-chain acylcarnitine concentration in patient with stable coronary artery disease (Biochemistry 2005).
 - m. A study of selected enzymes related to energy metabolism in Saudi autistic children (Biochemistry 2009).
 - n. Oxidative stress and antioxidants status in Saudi autistic children (Biochemistry 2009).
 - o. Nutritional status and eating behaviors among adolescents of some intermediate school in Jeddah (Biochemistry 2010).
 - p. Detoxification Mechanisms and Redox Status in Autism (Biochemistry 2011)
14. Reviewer for the following PhD thesis papers:
 - a. Surveillance and in-vitro cell response to *Chlamydia pneumonia* infection (Botany and Microbiology 2004).

- b. Study the biochemical therapeutic effects of some common plants on liver cancer (Girl's College of Education, Jeddah 2005).
- c. Biochemical studies on the effect of some natural hypolipidemic substance in rats (Girl's College of Education, Jeddah 2008).
- d. Hemostatic and fibrinolytic profile in type 2 diabetes mellitus: Effect on the incidence and severity of diabetic complication (Biochemistry 2009).
- e. Influence of Oral *Convolvulus Hystrix Vahl* root bark on carbohydrate, fat and protein metabolism (Biochemistry 2010).
- f. Interaction of gold (III)-tetracyanide complex with L-cysteine, glutathione, captopril, methionine and seleno-methionine by ^1H and ^{13}C NMR spectroscopy (Biochemistry 2010).
- g. Purification and some kinetic properties of camel erythrocytes glucose-6-phosphate dehydrogenase (Biochemistry 2010).
- h. Polymorphism and expression of interleukin-17 & F genes and their contribution to the development of asthma in Saudis (Biochemistry 2010).

15. Reviewer for the following manuscripts:

- a. A specific gut microbiota metagenomic profile defines insulin sensitivity (2009).
- b. Endotoxin levels correlation positively with lifestyle sedentary and negatively with lifestyle highly trained subjects (Cardiovascular Diabetology; June 2010).
- c. Inverse association between adiposity and telomere length: The Fels Longitudinal Study (American Journal of Human Biology; July 2010).
- d. The Effects of Lipoic Acid, Carnitine and Nigella sativa on Diabetic Rat Model (Therapeutic Advances in Endocrinology and Metabolism; Sept. 2010).
- e. How do VLDL, LDL and HDL lipoprotein diameters cluster across components of the metabolic syndrome? (Diabetes Journal; Dec. 2010).
- f. Circulating adiponectin levels are lower in Latino versus non-Latino white patients independent of adiposity measures: a cross-sectional study (BMC Endocrine Disorders; Jan. 2011).
- g. Genetic analysis of virulence factor and phylogenetic of uropathogenesis from diabetic patients of the Eastern province of Saudi Arabia (Dammam University, KSA 2011)
- h. Evaluation of the role of fibroblast growth factor 23 as a biomarker for chronic kidney disease in Saudi Arabia (Dammam University, KSA 2011)

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-  <http://www.diabetes.org/>
-  <http://www2.warwick.ac.uk/fac/med/research/wisdem/>