



Amein K. Al-Ali

Professor

Personal Data

Nationality | Saudi

Date of Birth | 18/05/1952

Department | Clinical Biochemistry

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Language Proficiency

Language	Read	Write	Speak
Arabic	x	x	x
English	x	x	x
Others	x	x	x

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
1973	GCE A-Level	Salford College of Technology	UK
1977	BSc (Honors)	Salford University	UK
1981	PhD	Salford University & Manchester University	UK

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

Master	N/A
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Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work		Date
Demonstrator	Biochemistry	Salford University, UK	1977 – 1981
Assistant Professor	Biochemistry	King Faisal University	1981 – 1989
Associate Professor	Biochemistry	King Faisal University	1989 – 1998
Professor	Biochemistry	University of Dammam	1998- To date



Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
Director of Laboratories, King Fahd Teaching Hospital	KFHU	2001 to Summer

Scientific Achievements

Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	GenBank KF257930. Al-Ali AK, Al-Nafie AN, Albuali WH, Al-Suliman AM, Naserullah ZA, Al-Jarrash S, Qaw FS, Al-Bagshi MH, Al-Madan AS, AbdulAzeez S, and Borgio JF (GenBank KF257930.
2	Al-Nafie AN, Al-Ali AK, Albuali WH, Al-Suliman AM, Naserullah ZA, Al-Bagshi MH, Qaw FS, Al-Jarrash S, Al-Madan MS, AbdulAzeez S, and Borgio JF (2013).		GenBank KF25793. (2013).
3	Qaw FS, Al-Nafie AN, Borgio JF, AbdulAzeez S, Naserullah ZA, Al-Jarrash S, Al-Madan MS, Al-Bagshi MH, Al-Suliman AM, Albuali WH and Al-Ali AK (2013).		GenBank KF257932. (2013).
4	Koleman BPC, Al-Ali AK, van der Laan W, Asselbergs FW	A concise history of genome-wide association studies.	Saudi J Medicine & Med Sciences 2013;1:4-10.
5	Al-Rubaish A, Al-Muhanna F, Al-Shehri A, Al-Nafaie A, Shakil M, Al-Ali AK, Al-Faraidy K, Larbi E, Asselbergs F, Al-Ali Amein.	β - adrenergic receptor gene polymorphisms in normal and in patients with myocardial infarction in the Eastern Province of Saudi Arabia.	Saudi J Medicine & Med Sciences 2013;1:25-29.
6	Akhtar MS, Qaw F, Borgio JF, Albuali W, Suliman A, Nasserullah Z, Al-Jarrash S, Al-Ali AK.	Spectrum of α -thalassemia mutations in transfusion dependent α -thalassemia patients from the eastern province of Saudi Arabia.	Hemoglobin. 2013;37(1):65-73.
7	Ngo D, Bae H, Steinberg MH, et al.	Fetal hemoglobin in sickle cell anemia: Genetic studies of the Arab-Indian haplotype.	Blood Cells, Mol & Dis. 2013;51(1):22-6.



#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
8	Alsultan A, Ngo DA, Farrell JJ, Akinsheye I, Solovieff N, Ghabbour HA, Al-Ali AK , Alsuliman A, Al-Baghshi M, Albu-Ali W, Alabdulaali M, Baldwin CT, Farrer LA, Luo H, Melista E, Safaya S, Nwaru M Jr, Chui DH, Steinberg MH.	A functional promoter polymorphism of the δ -globin gene is a specific marker of the Arab-Indian haplotype.	Am J Hematol. 2012 Aug;87(8):824-6.
9	Alsultan A, Ngo DA, Farrell JJ, Ghabbour H, Akinsheye I, Al-Ali AK , Alsuliman A, Al-Baghshi M, Albuali W, Alabdulaali M, Sebastiani P, Baldwin CT, Chui DHK, and Steinberg MH.	Co-Inheritance of Delta Thalassemia Might Contribute to the High Fetal Hemoglobin in Sickle Cell Anemia Patients with the Saudi-Indian Haplotype.	Accepted to be presented in the 53 Annual meeting and exposition of the American Society of hematology. Boston, December 2011.
10	Sadat Ali M, El-Elq A, Al-Turki H, Al-Mulhem F, Sultan O, Al-Ali AK .	Vitamin D Level among Patients with Sickle Cell Anemia and its Influence on Bone Mass	Am J Hematology 2011;86: 506-507
11	Al-Sultan A, Phanasgaonkar S, Suliman A, Al-Baqushi M, Nasrullah Z, Al-Ali AK .	Spectrum of β -thalassemia mutations in the Eastern Province of Saudi Arabia.	Hemoglobin, 2011: 35: 134-137
12	Al-Elq AH, Sadat-Ali M, Al-Turki HA, Al-Mulhim FA, Al-Ali AK .	Is there a relationship between body mass index and serum vitamin D levels?	Saudi Med J. 2009 Dec; 30 (12) :1542-6.
13	Al-Ali AK , Al-Muhanna F, Al-Mueilo S, Larbi E, Al-Sultan A, Rubaish A, Al-Ateeq S, Alzaharani A.	Increased Prevalence of Glycoprotein IIb/IIIa Leu 33 Pro Polymorphism in End Stage Renal Disease Patients on Hemodialysis.	International journal of Biomedical science. 4; 100-103; 2008
14	Alzaharani JA, Obeid OE, Al-Ali AK , Immamwardi B.	Detection of hepatitis C virus and human immunodeficiency virus in expatriates in Saudi Arabia by Antigen-Antibody Combination assays.	J Infect Dev Ctries. 2009 ,30;3(3):235-8
15	Al-Turki HA, Sadat-Ali M, Al-Elq AH, Al-Mulhim FA, Al-Ali AK .	25-Hydroxyvitamin D levels among healthy Saudi Arabian women.	Saudi Med J. 2008 Dec;29(12):1765-8.
16	Al-Muhanna F, Al-Mueilo S, Al-Ali AK et al.	Polymorphism in methylenetetra-hydrofolate reductase, plasminogen activator inhibitor-1 and apolipoprotein E in Saudi ESRD patients on hemodialysis .	Saudi J of Kidney Diseases and Transplantation. 19(6):937-941, 2008



#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
17	Puehringer H, Najmabadi H, Law H, Krugluger W, Viprakasit V, Pissard S, Baysal E, Taher A, Farra C, Al-Ali AK , Al-Ateeq S, Oberkanins C.	Validation of a reverse-hybridization StripAssay for the simultaneous analysis of common α -thalassemia point mutations and deletions. Clinical Chemistry and Laboratory Medicine	2007: 45 ; 605-610
18	Al-Ali AK	Pyridine Nucleotide Redox Potential in Erythrocytes of Saudi Subjects with Sickle Cell Disease.	Acta Haematol 264: 1-5, 2002.
19	Al-Ali AK , Al-Mustafa Z., Qaw FS, Abdul-Cader Z.	Paracetamol-Induced Hepatotoxicity: Lack of Enhancement of the Hepatoprotective Effect of N-Acetylcystein by 4 Sodium Sulphate.	Inflammopharmacology 6: 235-241, 1998.
20	Al-Mustafa ZH, Al-Ali AK , Qaw FS, Abdul-Cader Z.	Cimetidine Enhances the Hepatoprotective Action of N-Acetylcysteine in Mice Treated with Toxic Doses of Paracetamol.	Toxicology 121: 223-8, 1997.
21	Al-Ali AK.	Common G6PD Variant from Saudi Population and its Prevalence.	Annals of Saudi Medicine 16: 654-6, 1996.
22	Al-Ali AK , Qaw F, Al-Yousef M.	Effects of Metal ion on the Activity of Cytosolic PEPCCK From Camel Kidney.	Arab Gulf Journal of Scientific Research 14 (3): 535-42, 1996.
23	Al-Ali AK , Ahmed MAM, Qaw F, Al-Fadel-Saleh M, Al-Bashir AM.	Uric Acid, Creatine and Urea in Normal, G6PD Deficient and HbSS Saudi Subjects.	Acta Haematol 94: 114-6, 1995.
24	Dafallah AA, Eskandarani H, Rehami A, Al-Ali AK , Al-Bashir AM, Saba R.	Fructosamine in HbS and G6PD Deficient Saudi Arabs in the Eastern Province of Saudi Arabia.	J. Biomed. Sci. 51: 35-9, 1994.
25	Al-Ali AK.	Erythrocyte Reduce Glutathione Level in Sickle Cell Anemia and Glucose-6-Phosphate Dehydrogenase Deficient Saudi Subjects.	Ann. Clin. Biochem. 31: 296-7, 1994.
26	Ahmed MAM, Al-Ali AK , Al-Idrissi HY, Al-Sibai MH, Al-Mutairy AR, Knox-Macaulay H.	Sickle Cell Trait and G6PD Deficiency in Blood Donors in Eastern Saudi Arabia.	Vox San Guinis 61: 69-70, 1991.
27	Buran KH, Berrebi A, Ankra-Badu G, Al-Ali AK , Oppenheim A, Luzzatto L	. Origin and Spread of Glucose-6-Phosphate Dehydrogenase Variant in the Middle East.	Am. J. Hum. Genet. 47: 1013-9, 1990.



#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
28	Al-Ali AK , Al-Rehimi A, Saba R, Power DM.	A Comparative Study of Glycosylated Haemoglobin Level in the Arabian Camel During Different Seasons.	Comp. Biochem. Physiol. 96B: 821-3, 1990.
29	Al-Ali AK , Ahmed AM, Al-Sibai MH, Al-Idrissi HY, AL-Mutairy AR, Al-Fadel Saleh M, Rehaimi A.	Percentage Glycosylated Haemoglobin Normal, G6PD Deficient and HbSS Saudi Arabs.	Medical Laboratory Sciences, 46: 313-5, 1989.
30	Al-Ali AK , Ahmed MAM, Al-Idrissi H, Al-Sibai MH, Al-Mutairy AR, Al-Awami M	. Effects of Glucose-6-Phosphate Dehydrogenase Deficiency upon Sickle Cell Anaemia.	Ann Clin. Biochem. 26: 477-80, 1989.
31	Al-Ayash Al, Dafallah A, Al-Ali AK , Al-Husayni H.	Determination of Glycosylated Haemoglobin in Normal and Diabetic Saudi Arabs.	Ann. Clin. Biochem. 24: 279-82, 1987.
32	Al-Ayash, Al, Dafallah A, Al-Husayni H, Al-Ali AK , Al-Quorain A, Omer AHS, Wilson MT, Bonaventura J, Cashon R.	Glycosylated haemoglobin levels in a benign form of sickle cell anaemia in Saudi Arabia.	Acta Haemat. 75: 160-4, 1986.
33	Al-Ali AK , Buchanon JD, Power DM.	Pulse Radiolysis Study of the Interaction of Ephedrine with Carrageenans International.	Journal of Radiation Biology.44: 55-64, 1983.
34	Al-Ali AK , Buchanon JD, Power DM, Butler J.	Thermodynamic Parameters Associated with Binding of Adrenaline and Norephedrine to Heparin.	International Journal of Radiation Biology. 43: 433-44, 1983.
35	Al-Ali AK & Power DM.	Effects of Gamma Irradiation on Sulphamerzine, Sulphathiazine and Sulphamethazine.	Radat. Phys. Chem. 22: 889-994, 1983.

Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
1	Steinberg MH <i>et al.</i>	The Saudi Arabian Genome Reveals a Two-Step Out-of-Africa Migration.	Am Society of Human genetics. 2013, Boston, USA
2	John J. Farrell, MS, Awatif N, Al-Nafaie MD, Al-Ali AK , Al-Rubaish AM, Naserullah Z, Alsuliman A, Steinberg MH, Baldwin CT.	The Evolutionary Impact Of Malaria On The Saudi Arabian Genome Ph.D.	American Society of Hematology (2013)
3	Alsultan A, Ngo DA, Farrell JJ, Ghabbour H, Akinsheye I, Al-Ali AK, Alsuliman A, Al-Baghshi M, Albuwali W, Alabdulaali M, Sebastiani P, Baldwin CT, Chui DHK, and Steinberg MH.	Co-Inheritance of Delta Thalassemia Might Contribute to the High Fetal Hemoglobin in Sickle Cell Anemia Patients with the Saudi-Indian Haplotype.	Accepted to be presented in the 53 Annual meeting and exposition of the American Society of hematology. Boston, December 2011.



#	Name of Investigator(s)	Research Title	Conference and Publication Date
4	Al-Ali AK.	Update of Induced Pluripotent Stem cells.	10 th Update in Internal Medicine. December 29-30, 2010, King Fahd Hospital of the University, Alkhobar, KSA

Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
1	Al-Mustafa Z, Al-Ali AK, Qaw F.	Cimetidine protection against paracetamol induced hepatotoxicity)	1999
2	Muhanna F, Larbi E, Sultan A, Al-Ali AK, et al.	Blood pressure and hypertension: Epidemiological and clinical studies in Saudi Arabia.	1999
3	Mustafa Z, Al-Ali AK, Qaw F.	Investigation of the relationship between favism and acetylator phenotype.	2001
4	Al-Ali AK, Qaw F, Al-Madam M.	Molecular Characterization of β -Thalassemia in Eastern Province	2001
5	Al-Ali AK, Mustafa Z, Qaw F, Al-Ateeq S.	Investigation of polymorphism of G6PD deficiency and its relation to the incidence of favism in the Eastern Province.	2002
6	Al-Mustafa Z, Al-Ali AK, Al-Madan M.	Vitamin D Status in Eastern Province	2002
7	Al-Ali AK, Al-Muhanna F, Al-Mueilo S, Larbi E, Al-Sultan A, Rubaish A, Al-Ateeq S, Al-Zaharani A.	Increased Prevalence of Glycoprotein IIb/IIIa Leu 33 Pro polymorphism in End Stage Renal Disease Patients on Hemodialysis	2007
8	Rubaish A, Al-Ali AK, Al-Zahrani A, Madan M, Al-Ateeq S.	Genetic Mutations in Children with Asthma	2006
9	Rubaish A, Al-Ali AK, Al-Zahrani A, Madan M, Al-Ateeq S.	Genetic Mutations in Children with Asthma	2006
10	Acharya S, Al-Ali AK, El-Elq A.	Single nucleotide polymorphism, rs7903146 in TCF7L2 and type 2 diabetes mellitus in Eastern Saudi Arabia	2011
11	Vatte C, Cyrus C, Al-Ali AK.	Study of KIF6 Trp 719Arg Gene Polymorphism as a Predictor Risk factor for Coronary events in CVD patients of Eastern Province of Saudi Arabia.	2011
12	Al-Ali AK, Al-Rubaish A, Al-Muhanna F, Al-Shehry A.	Polymorphism in the β 2 adrenergic receptor and cardiovascular diseases in the Eastern population of Saudi Arabia	2012



#	Name of Investigator(s) (Supported by)	Research Title	Report Date
13	Borgio JF, Qaw FS, Al-Ali AK.	Screening of carriers for ATRX (alpha-thalassemia/mental retardation, X-linked) syndrome in alpha thalassemia patients in Eastern Province, Saudi Arabia	2012
14	Vatte C, Cyrus C, Al-Ali AK	Study of KIF6 Trp 719Arg Gene Polymorphism as a Predictor Risk factor for Coronary events in CVD patients of Eastern Province of Saudi Arabia	2012

Current Researches

#	Research Title	Name of Investigator(s)
1	A Genome Wide Association Study of Coronary Artery Disease in the Eastern Province of Saudi Arabia (KACST)	Amein K. Al-Ali et al.
2	Genetic Basis of Fetal Hemoglobin in Saudi Sickle Cell Anemia (KACST)	Amein K. Al-Ali et al.
3	Immediate bedside pharmacogenetic testing of the CYP2C19 gene to assess effectiveness of clopidogrel in coronary artery disease patients treated with Percutaneous Coronary Intervention: individualized antiplatelet drug treatment to improve prognosis and cost effectiveness (KACST)	Abdullah Al-Rubaish et al.
4	The role of gut microbiota in type 2 diabetes patients in the Eastern Province of Saudi Arabia (KACST)	Fahd Al-Muhanna et al.
5	Towards Curing of beta-thalassemia with iPS cells (KACST)	Obeid El Treifi Obeid et al.
6	Effect of genetic variation in IL-28B, TNF- α and TGF- β genes on the clearance of hepatitis C virus: a genome-wide association study (KACST)	Alhusain Al-Zahrani et al.
7	Identification of apoptosis sensor genes in Saudi breast cancer patients in the Eastern Province of Saudi Arabia (KACST)	Khalid Al-Kharsa et al.

Membership of Scientific and Professional Societies and Organizations

- Biochemical Society, UK.
- New York Academy of Science, American.
- Radiation Research Society, Christie Hospital, Manchester, UK.
- National Academy of Science, New York, USA.



Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Biochemistry	MDBC 206,332, 406	30%

Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)

1	This course will enable students to understand the basic process of life in molecular terms using the cell as a unit of molecular study, recall the major metabolic diseases and summarize the molecular basis of diseases. In addition, students will be able to distinguish between normal and abnormal metabolic pathways and perform routine biochemical tests. They will have the ability to lead a group of students in accomplishing an assignment and to operate various tools and instruments commonly used in a biochemistry lab to perform biochemical tests. Also, they will have the confidence to challenge other people's views and appreciate the impact of information technology on the practice of medicine.
2	This course reviews the organization of the human genome and elucidates the processes of transcription and translation of genes. It also describes the molecular basis of genetic variations and patterns of inheritance. In addition, it will enable the students to distinguish between genetic diseases from non-genetic diseases and appreciate the impact of expanding genetic knowledge on the practice of medicine. Furthermore, it will give the students the ability to perform genetic experiments using basic tools used in a genetic lab.

Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Clinical Biochemistry	801,	40%
2	MSc & PhD in physiology	800	30%

Brief Description of Postgraduate Courses Taught: (Course Title – Code: Description)

1	Active participation in teaching of fellowship students in ENT, Obs & Gyn, surgery, ophthalmology, medicine and pathology.
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Course Coordination

#	Course Title and Code	Coordination	Co-coordination	Undergrad.	Postgrad.	From	to
1	MDBC 401	X		X		2004	To date

Student Academic Supervision and Mentoring

#	Level	Number of Students	From	to
1	Second	15	2002	To date
2	Fourth	12	2004	To date



Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date
1	MSC		UD	1991

Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

Administrative Responsibilities

#	From	To	Position	Organization
1	2001	To date	Chairman, Biochemistry	UD
2	2010	To date	Director	Prince Mohammed Center
3	2004	To date	Supervisor , Chemistry	UD
4	2010	To date	Supervisor	Office of Collaboration & Knowledge Exchange

Committee Membership

#	From	To	Position	Organization
1	2008	To date	Scientific Council	UD
2	2006	To date	Ethical Committee	UD

Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	IT
2	Technical

Last Update

August 23, 2013