

# Curriculum Vitae

## Khaled K. S. Abu-Amero, Ph.D., FRSH, FRCPath

### PERSONAL INFORMATION

**Sex** Male

**Marital Status** Married

**Citizenship** United Kingdom of Great Britain

### BUSINESS ADDRESS

Dept. of Ophthalmology, College of Medicine,  
King Abdulaziz University Hospital  
P. O. Box 245, Riyadh 11411 Saudi Arabia  
Tel. +966590035651  
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### MAILING ADDRESS

P. O. Box 14478  
Riyadh 11424  
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### CURRENT POSITION

Associate Professor	Dept. of Ophthalmology, College of Medicine, King Saud University (KSU), Riyadh, Saudi Arabia	2008-Current
Head of Ophthalmic Genetics Laboratory	Dept. of Ophthalmology, College of Medicine, King Saud University (KSU), Riyadh, Saudi Arabia	2009-Current
Visiting Associate Professor	Dept. of Ophthalmology, College of Medicine, University of Florida, Jacksonville, FL, USA	2011- Current
Visiting Research Faculty	Research Department, King Khalid Eye Specialist Hospital, Riyadh, KSA	2011 – Current
Ph.D. Major Minor	King's College London, University of London Life Sciences Molecular Biology	1994-1997

### EDUCATION

	PG Diploma	University College London, University of London	1990-1991
	Major	Microbiology	
	Minor	Genetic Engineering	
	MSc	University College London , University of London	1989-1990
	Major	Microbiology	
	Minor	Genetic Engineering	
	BSc	College of Applied Medical Sciences, King Saud University	1989-1990
	Major	Clinical Laboratory Sciences	
	Minor		
<b>CERTIFICATION</b>	FRCPath	Fellowship of the Royal College of Pathologists (Molecular & Medical Genetics)	2011
	Laboratory Consultant (Medical Genetics)	Saudi Council for Health Specialists	2011
	FRSH	Fellowship of the Royal Society of Health	1998
<b>MEMBERSHIP</b>	Member	The association for research in vision and ophthalmology	2010 - present
	Member	The International multi-disciplinary Genetics network	2009 - Present
	Member	Saudi Ophthalmology Society	2009 - Present
	Member	Human Genetic Society of Australia	2007 - Present
	Member	American Association for Laboratory Accreditation	2001 - Present
	Member	American Society of Human Genetics	2001 - Present
<b>EMPLOYMENT HISTORY</b>	Member	British Society of Human Genetics	1997 - Present
	Assistant Professor	Dept. of Ophthalmology, College of Medicine, King Saud University (KSU)	2008 -Current
	Head Ophthalmic Genetics Lab.	Dept. of Ophthalmology, College of Medicine, King Saud University	2009 - Current
	Lab. Director	Shelfah Genetic Center	2007 – 2008
	Scientist	Genetics Department, King Faisal Specialist Hospital & Research Centre (KFSH), Riyadh, Saudi Arabia	2000 – 2007
	Scientist	Riyadh Armed Forces Hospital, Riyadh, Saudi Arabia	1998 - 2000
	Senior Research Officer	School of Medicine, Imperial College, University of London, London, UK	1997 - 1998

Scientific Officer	Public Health Laboratory, Colindale, London, UK	1991 – 1993
MLSO	Central Laboratory and Blood Bank, Riyadh, Saudi Arabia	1988 - 1989

## EDITORIAL BOARDS

<b>APPOINTEMENTS</b>	Member	Open Access Journal of Autism	2012- Current
	Guest Editor in chief	Middle-East African Journal of Ophthalmology	Jan 2011 issue
	Member	World Journal of Medical Genetics	2011- Current
	Member	World Journal of Ophthalmology	2011 - Current
	Member	Case Reports in Ophthalmological Medicine	2011 - Current
	Member	Middle-East African Journal of Ophthalmology	2009- Current
	Member	Journal of Medical Genetics & Genomics	2008 - Current
	Member	BMC Research Notes	2007- Current

<b>COMMITTEES</b>	Chairman	MSc in Basic Ophthalmic Sciences Committee (KSU)	2009 – Present
	Member	Dept. of Ophthalmology, Purchasing Committee (KSU)	2009 - Present
	Member	Dept. of Ophthalmology, Research Committee (KSU)	2009 - Present
	Member	Research Advisory Council (KFSH, Saudi Arabia)	2004 – 2006
	Member	Research Advisory Council (KFSH, Saudi Arabia)	2004 – 2006
	Member	National Tissue Bank Committee(KFSH, Saudi Arabia)	2002 - 2006
	Member	Safety Committee (KFSH, Saudi Arabia)	2001 - 2006
	Member	Equipment Purchase Requisition (EPR) Committee (KFSH)	2000 - 2006
	Member	Research centre accreditation committee (KFSH)	2001 - 2006
	Chairman	Recombinant DNA Committee (KFSH)	2001-2006

<b>AWARDS &amp; HONOURS</b>	-	Department of Ophthalmology Research Award	2012
	-	Department of Ophthalmology Research Award	2011
	-	College of Medicine Distinguished Researcher Award	2010
	-	Department of Ophthalmology Research Award	2010
	-	King Saud University Research Award (fifth position)	2009
	-	Research Centre Achievement Award, King Faisal Specialist Hospital	2006
	-	Nominated for the Association of International Glaucoma Societies (AIGS) award 2006 for my research in the field of Glaucoma genetics	2006
	-	Research Centre Achievement Award, King Faisal	2005

- Specialist Hospital
- Listed in MARQUIS Who's Who in Science and Engineering (7<sup>th</sup> Edition, 2003-2004). 2004
  - Listed in MARQUIS Who's Who in Medicine and Health Care (8<sup>th</sup> Edition, 2011). 2011
  - Listed in MARQUIS Who's Who in the world 2012

<b>GRANTS AWARDED</b>	<b>Title:</b> Registry of congenital and genetic neuro-ophthalmic diseases in Saudi Arabia	2012
	<b>Role:</b> Co-Investigator	
	<b>Granting Agency:</b> National Program for Science & Technology	
	<b>Grant period:</b> 2012-2014	<b>Grant Amount:</b> \$ 685,000
	<b>Title:</b> Study of differential protein and gene expression in Primary Congenital Glaucoma	2010
	<b>Role:</b> Principal Investigator	
	<b>Granting Agency:</b> U.S. Civilian Research & Development Foundation (CRDF)	
	<b>Grant period:</b> 2011-2012	<b>Grant Amount:</b> \$30,000
	<b>Title:</b> Genetics of ocular motility	2010
	<b>Role:</b> Principal Investigator	
	<b>Co-Investigators:</b> Thomas M. Bosley, MD; Darren Oysterick, MSc	
	<b>Granting Agency:</b> King Abdulaziz City for Science and Technology	
	<b>Grant period:</b> 2010-2013	<b>Grant Amount:</b> \$695,000
	<b>Title:</b> Genetics of Hereditary Visual Loss	2009
	<b>Role:</b> Co-Principal Investigator	
	<b>Co-Investigators:</b> Mustafa Salih, MD; Thoams M. Bosley, MD	
	<b>Granting Agency:</b> King Abdulaziz City for Science and Technology	
	<b>Grant period:</b> 2009-2012	<b>Grant Amount:</b> \$675,000
	<b>Title:</b> Genetics of Keratoconus	2009
	<b>Role:</b> Co- Principal Investigator	
	<b>Co-Investigators:</b> Abdulrahman Al-Mummar, MD; Hatem Kalnatn,MD	
	<b>Granting Agency:</b> Research Centre, College of Medicine, King Saud University	
	<b>Grant period:</b> 2009-2011	<b>Grant Amount:</b> \$35,000
	<b>Title:</b> Molecular Genetics investigation of various types of Glaucoma common in Saudi Arabia	2009
	<b>Role:</b> Co- Principal Investigator	
	<b>Co-Investigators:</b> Saleh Al-Obeidan, MD; Essam Osman, MD	

**Granting Agency:** Research Centre, College of Medicine, King Saud University

**Grant period:** 2009-20100

**Grant Amount:** \$35,000

**Title:** Genetics of Ocular Motility in Saudi Arabia

2009

**Role:** Principal Investigator

**Co-Investigators:** Thomas M. Bosley, MD; Darren Oyestrick, MSc

**Granting Agency:** Research Centre, College of Medicine, King Saud University

**Grant period:** 2009-2011

**Grant Amount:** \$35,000

**Title:** Mitochondrial abnormalities in various optic neuropathies

2006

**Role:** Principal Investigator

**Co-Investigators:** Thomas M. Bosley, MD

**Granting Agency:** King Abdulaziz City for Science and Technology

**Grant period:** 2006-2008

**Grant Amount:** \$428,000

**Title:** Mitochondrial DNA mutations in various optic nerve diseases leading to blindness

2006

**Role:** Principal Investigator

**Co-Investigators:** Thomas M. Bosley, MD

**Granting Agency:** Prince Salman Center for disability Research

**Grant period:** 2006-2009

**Grant Amount:** \$100,000

**Title:** Genetics of Silver-Russell syndrome

1997

**Role:** Co-Investigator

**Co-Investigators:** Prof. Gudrun E. Moore (PI)

**Granting Agency:** Child Growth foundation

**Grant period:** 1996-1999

**Grant Amount:** \$200,000

## PUBLICATIONS

### A. BOOK CHAPTERS

1. **Abu-Amero KK**, Edward DP (2011). Primary Congenital Glaucoma. In: Pagon RA, Bird TD, Dolan CR, Stephens K, editors. GeneReviews. Seattle (WA): University of Washington, Seattle; 1993-July 2011.
2. Bosley T M, Oystreck D T and **Abu-Amero K K** Congenital Cranial Dysinnervation Disorders. In: Darlene A. Dartt, editor. *Encyclopedia of the Eye*, Vol 1. Oxford: Academic Press; 2010. pp. 346-355.
3. Vicente M. Cabrera, **Khaled K. Abu-Amero**, José M. Larruga, and Ana M. González. The Arabian Peninsula: Gate for Human Migrations Out of Africa or Cul-de-sac? A Mitochondrial DNA Phylogeographic Perspective (2009). Book Title "The Evolution of Human Populations in Arabia"; Petraglia, Michael D.; Rose, Jeffrey I. (Eds.) Approx. 300 p., Hardcover, ISBN: 978-90-481-2718-4, Published by Springer.
4. Khan, L; Loria G; **Abu-Amero, K**; Nicholas, R; Halablab, M and Miles, R. (2001). Distinctive biochemical characteristics of Mycoplasma agalactiae and Mycoplasma bovis. Vol 5 Mycoplasmas of ruminants; pathogenicity, diagnostics, epidemiology and molecular genetics [European Commission; 2001 (ISBN 9282906124)].

### B. ORIGINAL ARTICLES (REFEREED JOURNALS)

1. **Khaled K. Abu-Amero**, Altaf A. Kondkar, Ahmed Mousa, Essam A. Osman and Saleh A. Al-Obeidan (2013). Analysis of Mn-SOD mutation (c.47T>C) in the Saudi Arabian population with Primary Open Angle Glaucoma. *Ophthalmic Genetics* (submitted)
2. **Khaled K. Abu-Amero**, Altaf A. Kondkar, Ahmed Mousa, Essam A. Osman and Saleh A. Al-Obeidan (2013). Decreased Total antioxidants in patients with Primary Open Angle Glaucoma: Correlation with Cup-to-disc ratio. *Current Eye Research* (submitted).
3. **Khaled K. Abu-Amero**, Altaf A. Kondkar, Ahmed Mousa, Essam A. Osman and Saleh A. Al-Obeidan (2013). Analysis of Catalase SNP rs1001179 in Saudi patients with Primary Open Angle Glaucoma. *Molecular Vision* (submitted)
4. Saleh A. Al-Obeidan, Ahmed Mousa, Abid Naseem, **Khaled K. Abu-Amero**, Essam A. Osman (2013). Efficacy and safety of non-penetrating deep sclerectomy surgery in Saudi patients with uncontrolled open angle glaucoma. *Saudi Medical Journal* 34(1)p; 54-61.

5. Sami Al Odhayb, Jose Morales, Deepak P. Edward and **Khaled K. Abu-Amero (2013)**. Update on Pediatric Glaucoma: Recent Advances and Future Directions. **Seminars in Ophthalmology** (In Press)
6. **Khaled K. Abu-Amero**, Martin Jaeger, Theo Plantinga, Mihai G. Netea and Hisham Y. Hassan (2013). Genetic Variation of TLR2 and TLR4 among Saudi Arabian Population: insight into the evolutionary dynamics of the Arabian Peninsula. **Genetic Testing & Molecular Biomarkers** (In Press).
7. Ayman Al-Suliman and **Khaled K. Abu-Amero (2013)**. Parent's attitude towards PND and TOP could be influenced by other factors rather than by the severity of the condition. **Prenatal Diagnosis** (accepted).
8. Eranga N. Vithana, Chiea-Chuen Khor, Chunyan Qiao, Monisha E. Nongpiur, Lingam Vijaya, Li-Jia Chen, **Khaled Abu-Amero**, Sancy Low, Liza-Sharmini A. Tajudin, Belinda K. Cornes, Shamira A. Perera, Ching-Yu Cheng, Liang Xu, Hongyan Jia, Ching-Lin Ho, Ren-Yi Wu, Clement C.Y. Tham, Paul T.K. Chew, Daniel H. Su, Francis T. Oen, Sripriya Sarangapani, Ronnie George, Essam A. Osman, Hon-Tym Wong, Guangxian Tang, Sujie Fan, Hailin Meng, Dao T.L. Huong, Hua Wang, Bo Feng, Nagaswamy Soumittra, Vedam L. Ramprasad, Govindasamy Kumaramanickavel, Sudha Iyengar, Theru A. Sivakumaran, Victor H.K. Yong, Serena M.L. Ting, Yang Li, Ya-Xing Wang, Wan-Ting Tay, Xueling Sim, Raghavan Lavanya, Ying-Feng Zheng, Tina T. Wong, Seng-Chee Loon, Naushin Waseem, Azhany Yaakub, Kee-Seng Chia, R. Rand Allingham, Michael A. Hauser, Dennis S.C. Lam, Martin L. Hibberd, Shomi S Bhattacharya, Donald T. Tan, Jost B. Jonas, Do Nhu Hon, Saleh A. Al-Obeidan, Jianjun Liu, Tran Nguyen Bich Chau, Cameron P. Simmons, Jin-Xin Bei, Yi-Xin Zeng, E-Shyong Tai, Seang-Mei Saw, Paul J. Foster, Balekudaru Shantha, Tien-Yin Wong, Chi-Pui Pang, Ningli Wang and Tin Aung (2012). Genome-wide association study and replication across 11 independent collections identify three novel susceptibility loci for Primary Angle Closure Glaucoma. **Nature Genetics** 44(10): 1142-1146.
9. Dilek Colak, Jose Morales, Thomas M. Bosley, Albandary AlBakheet, Banan AlYounes, Namik Kaya and **Khaled K. Abu-Amero (2012)**. Genome-wide Expression Profiling of Patients with Primary Open Angle Glaucoma. **Investigative Ophthalmology & Visual Sciences** 53(9): 5899-5904.
10. Yasser H. Al-Faky, Thomas M. Bosley, Turki Al-Turki, Mustafa A. Salih, **Khaled K. Abu-Amero** and Adel H. AlSuhaibani (2012). Prominent corneal nerves: A novel sign of lipoid proteinosis with genotypic correlation. **British Journal of Ophthalmology** 96 (7): 935-940.
11. **Khaled K. Abu-Amero**, Altaf A. Kondkar, Ahmed Mousa, Essam A. Osman, and Saleh A. Al-Obeidan (2012). Lack of association of SNP rs4236601 near CAV1 and CAV2 with POAG in a Saudi cohort. **Molecular Vision** 18: 1960-1965

12. **Khaled K. Abu-Amero**, Michael A. Hauser, Gamal Mohamed, Yutao Liu, Jason Gibson, Ana M. Gonzalez and R. Rand Allingham (2012). Mitochondrial genetic background in Ghanaian patients with primary open-angle glaucoma. *Molecular Vision* 18: 1955-1959.
13. Ayman Alsulaiman, Jenny Hewison, **Khaled K. Abu-Amero**, Shanaz Ahmed, Janet Green and Janet Hirst (2012). Attitudes to prenatal diagnosis and termination of pregnancy for thirty conditions among women in Saudi Arabia and the United Kingdom. *Prenatal Diagnosis* 32(11): 1109-1113.
14. Abdullah G. Alotaibi, Badriah Alenazy and **Khaled K. Abu-Amero** (2012). Outcomes of 3 Hour Part-time Occlusion Treatment Combined with Near Activities among Children with Unilateral Amblyopia. *Saudi Medical Journal* 33(4): 395-398.
15. **Khaled K. Abu-Amero**, Essam A. Osman, Mohammad T. Azad, R. Rand Allingham, Michael Hauser and Saleh A. Al-Obeidan (2012). Lack of Association between *LOXL1* Gene Polymorphisms and Primary Open Angle Glaucoma in the Saudi Arab Population. *Ophthalmic Genetics* 33 (3): 130-133.
16. Mustafa A. Salih, Thomas M. Bosley, Ibrahim A. Alorainy, Mohamed A. Sabry, Mohamed S. Rashed, Eiman A. Al-Yamani, Siham El-Akoum, Sarar H. Mohamed, **Khaled K. Abu-Amero**, and Ali M. Hellani (2012). Successful Preimplantation Genetic Diagnosis in Isolated Sulfite Oxidase Deficiency: A Happy end to the Saga of a Devastating Neurogenetic Disorder. *American Journal of Medical Genetics (Part A)* (In Press).
17. **Khaled K. Abu-Amero**, Taif Anwar Azad, George L. Spaeth, Jonathan Myers, L. Jay Katz, Marlene Moster and Thomas M. Bosley (2012). Absence of Altered Expression of Optineurin in Primary Open Angle Glaucoma Patients. *Molecular Vision* 18: 1421-1427.
18. **Khaled K. Abu-Amero**, Taif Anwar Azad, George L. Spaeth, Jonathan Myers, L. Jay Katz, Marlene Moster and Thomas M. Bosley (2012). Unaltered *Myocilin* Expression in the Blood of Primary Open Angle Glaucoma Patients. *Molecular Vision* 18: 1004-1009
19. Ali Hellani, Siham Akoum, Elias Fadel, Hisham Yousef and **Khaled K. Abu-Amero** (2012). Successful pregnancies after combined HLA direct genotyping and Preimplantation Genetic Diagnosis. *Saudi Medical Journal* (In Press).
20. Mustafa A. Salih, , Andreas Tzschach, Darren T. Oystreck, Hamdy H. Hassan, Heba Y El Khashab, Thomas F. Wienker, **Khaled K. Abu-Amero**, and Thomas M. Bosley (2012). A Novel Autosomal Recessive Syndrome Affecting Brain and Ocular Globes. *American Journal of Medical Genetics (Part A)*(Accepted)
21. **Khaled K. Abu-Amero**, Altaf A. Kondkar, Ahmed Mousa, Essam A. Osman, Saleh A. Al-Obeidan (2011). Decreased total antioxidants status in the plasma of patients with pseudoexfoliation glaucoma. *Molecular Vision* 17: 2769-2775.

22. **Khaled K. Abu-Amero**, Ana González, Essam Osman, José Larruga, Vicente Cabrera, and Saleh Al-Obeidan (2011). Susceptibility to Primary Angle closure Glaucoma in Saudi Arabia: the possible role of mitochondrial DNA ancestry informative haplogroups. *Molecular Vision* 17: 2171-2176.
23. **Khaled K. Abu-Amero** , Essam A. Osman , Ahmed Mousa , Joshua Wheeler, Benjamin Whigham , R. Rand Allingham, Michael A. Hauser, and Saleh A. Al-Obeidan (2011). Screening of *CYP1B1* and *LTBP2* genes in Saudi families with Primary Congenital Glaucoma: Genotype-Phenotype Correlation. *Molecular Vision* 17: 2911-2919
24. Thomas M. Bosley, Mustafa A. Salih, Ibrahim A. Alorainy, Darren T. Oystreck, M. Eahidul Islam, Wim Van Hul, Salem al Malki, Adel H. Suhaibani, Hattan Khiari and **Khaled K. Abu-Amero** (2011). The Neurologic and Neuro-ophthalmologic Spectrum of Carbonic Anhydrase Type II Deficiency Syndrome due to the Arabic Mutation. *Brain* 134 (12): 3499-3512.
25. **Khaled K. Abu-Amero**, Ana M. González, Essam A. Osman, José M. Larruga, Vicente M. Cabrera and Saleh A. Al-Obeidan (2011). Mitochondrial DNA lineages of African origin confer susceptibility to primary open-angle glaucoma in Saudi patients. *Molecular Vision* 17: 1468-1472.
26. Abdullah G. Al-Otaibi, Essam A. Osman, Khalid H. Allam, Ahmed Mousa and **Khaled K. Abu-Amero** (2011). One Year Outcome of Ocular Related Emergencies in a Tertiary Hospital in Riyadh. *Saudi Medical Journal* 32(12): 1256-1260.
27. **Khaled K. Abu-Amero**, Vicente M. Cabrera, José M. Larruga, Essam A. Osman, Ana M. González and Saleh A. Al-Obeidan (2011). Eurasian and Sub-Saharan African mitochondrial DNA haplogroup influences pseudoexfoliation glaucoma development in Saudi patients. *Molecular Vision* 17: 543-547.
28. Mustafa A. Salih, Darren T. Oystreck, Yasser H. Al-Faky, Mohammed Kabiraj, Mohamed I. A. Omer, Elamin M. Subahi, David Beeson, **Khaled K. Abu-Amero** and Thomas M. Bosley (2011). Congenital Myasthenic Syndrome due to Homozygous *CHRNE* Mutations: First report in an Arab patient. *Journal of Neuro-ophthalmology* 31(1): 42-47.
29. **Khaled. K. Abu-Amero**, Hatem Kalnatan and Abdulrahman M. Al-Muammar (2011). Analysis of the *VSX1* gene in Keratoconus patients from Saudi Arabia. *Molecular Vision* 17: 667-672.
30. Thomas M. Bosley, Ali Hellani, George L. Spaeth, Jonathan Myers, L. Jay Katz, Marlene Moster, Barry Milcarek and **Khaled K. Abu-Amero** (2011). Down-Regulation of OPA1 in Patients with Primary Open Angle Glaucoma. *Molecular Vision* 17: 1074-1079.

31. **Khaled K. Abu-Amero**, H. Kalnatan, A.M. Hellani and A. M. Al-Muammar (2011). High-Resolution Analysis of DNA Copy Number Alterations in Patients with Isolated Sporadic Keratoconus. *Molecular Vision* 17: 822-826.
32. **Khaled K. Abu-Amero**, Flavio Faletra, Gasparini Paolo, Fulvio Parentin, Stefano Pensiero, Ibrahim A. Alorainy, Ali Hellani, Dario Catalano and Thomas M. Bosley (2011). Horizontal Gaze Palsy and Progressive Scoliosis without *ROBO3* mutation(s). *Ophthalmic Genetics* 32(4): 212-216.
33. Ahmed A. Al-Saleh, Ali Hellani and **Khaled K. Abu-Amero** (2011). Isolated Foveal Hypoplasia: Report of a new case and detailed genetic investigation. *International Ophthalmology* 31: 117-120.
34. **Khaled K. Abu-Amero** (2011). Leber hereditary optic neuropathy-The mitochondrial connection revisited. *Middle-Eastern and African Journal of Ophthalmology* 18(1): 17-23
35. **Khaled K. Abu-Amero** (2011). Ophthalmic Genetics: Moving forward. *Middle-Eastern and African Journal of Ophthalmology* 18(1): 1-2.
36. **K.K. Abu-Amero**, A. M. Gonzalez, V. Cabrrera and J. M. Larruga (2010). New Light on human prehistory in the Arabo-Persian gulf oasis. *Current Anthropology* 51(6): 868-870.
37. **Khaled K. Abu-Amero**, Flavio Faletra, Paolo Gasparini, Fulvio Parentin, Stefano Pensiero, Ibrahim A. Alorainy, Ali Helani, Dario Catalano and Thomas M. Bosley (2011). Horizontal Gaze Palsy and Progressive Scoliosis without *ROBO3* Mutations. *Ophthalmic Genetics* (In Press).
38. Abdulelah A. Al-Abdullah, **Khaled K. Abu-Amero**, Hisham Alkhalidi, Ali Hellani and Thomas M. Bosley (2011). Choroid Plexus Papilloma Metastases to Both Cerebellopontine Angles Mimicking Neurofibromatosis Type 2. *Journal of Neurology* 258(3): 504-506.
39. Thomas M. Bosley and **Khaled K. Abu-Amero** (2010). Assessing Mitochondrial DNA Nucleotide Changes in Spontaneous Optic Neuropathies. *Ophthalmic Genetics* 31(4): 163-172.
40. **Khaled K. Abu-Amero**, Essam A. Osman, Ahmed S. Dewedar, Silke Schmidt, R. Rand Allingham and Saleh A. Al-Obeidan (2010). Analysis of *LOXL1* polymorphisms in a Saudi Arabian population with pseudoexfoliation glaucoma. *Molecular Vision* 16: 2805-2810.
41. Thomas M. Bosley, **Khaled K. Abu-Amero**, Saleh Alrasheed, Ibrahim A. Alorainy, John A. McGrath, Lionel Van Maldergem, Darren T. Oystreck, and Mustafa A Salih (2010). Neurologic Features of Genetically Defined Lipoid Proteinosis. *BMC Medical Genetics* 12(1): 31-37.

42. **Khaled K. Abu-Amero**, Ali Hellani, Mustafa A. Salih, Mohammad Z. Seidahmed, Tageldin S. Elmalik, Ghassan Zidan and Thomas M. Bosley (2010). A de novo Marker Chromosome derived from 9p in a Patient with Autism: Genotype-Phenotype Correlation. **BMC Medical Genetics** 11: 135-142.
43. **Khaled K. Abu-Amero**, Ali Hellani, Mustafa A. Salih, Ibrahim al Orainy, Nancy Sicotte and Thomas M. Bosley (2010). Neuroradiologic features of *de novo* partial chromosome 18p deletion. **Ophthalmic Genetics** 31(3): 147-154.
44. **Khaled K. Abu-Amero**, Ali Hellani, Mustafa A. Salih, Abdulkarim Al Hussain, Majed al Obailan, Ghassan Zidan, Ibrahim A. Alorainy and Thomas M. Bosley (2010). Ophthalmologic abnormalities in a de novo terminal 6q deletion. **Ophthalmic Genetics** 31(1): 1-11.
45. **Khaled K. Abu-Amero**, M. Jaber, Ali Hellani and Thomas M. Bosley (2010). Genome-wide expression profile of LHON patients with the 11778 mutation. **British Journal of Ophthalmology** 94(2): 256-259.
46. **Khaled K. Abu-Amero**, Oliyan M. Al-Boudari, Ahmed Mousa , Ana M. Gonzalez, Jose M. Larruga, Vicente M. Cabrera and Nduna Dzimiri (2010). The mitochondrial DNA variant 16189 T>C is associated with coronary artery disease and myocardial infarction in Saudi Arabs. **Genetic Testing and Molecular Biomarkers** 14(1): 43-47.
47. Salem H. Khalil, **Khaled K. Abu-Amero**, Fahad Al Mohareb and Naeem A. Chaudhri (2010). Molecular monitoring of response to imatinib (glivec) in chronic myeloid leukemia patients: experience at a tertiary care hospital in Saudi Arabia. **Genetic Testing and Molecular Biomarkers** 14(1): 67-74.
48. Henry S. Schutta, **Khaled K. Abu-Amero** and Thomas M. Bosley (2010). Exceptions to the Valsalva Doctrine. **Neurology** 74(4): 329-335.
49. Ali Hellani , Sarar Mohamed , Siham Al-Akoum , Saleh Altuwaijri , Thomas M. Bosley , and **Khaled K. Abu-Amero** (2010). A t(5;16)(16q23.3;p15.32) translocation generating partial trisomy 16q23.3>16qter and p15.32>pter deletion in two siblings with mental retardation, speech delay and dysmorphic features. **American Journal of Medical Genetics** 152A: 1555-1560.
50. Alsbeih GA, El-Sebaie MM, Al-Rajhi NM, Al-Harbi NM, Al-Hadyan KS, Al-Buhairi MH, Moftah BA, Al-Shabanah MO, **Abu-Amero KK**. (2010). Association between XRCC1 G399A Polymorphism and Late Complications to Radiotherapy in Saudi Head and Neck Cancer Patients. **Journal of Egyptian International Cancer Institute** 20(3): 302-308.
51. Ghazi Alsbeih, Najla Al-Harbi, Medhat El-Sebaie, Nasser Alrajhi and **Khaled Abu-Amero** (2009). Involvement of Mitochondrial DNA Sequence Variations and Respiratory Activity

- in Late Complications following Radiotherapy. *Clinical Cancer Research* 15(23): 7352-7360.
52. **K. K. Abu-Amero**, A. Hellani , A.M. Gonzalez, J.M. Larruga, V.M. Cabrera and P.A. Underhill (2009). Saudi Arabian Y-Chromosome diversity and its relationships with nearby regions. *BMC Genetics* 10:59-72.
53. T. Owaidah, H. Aba Alkhail, H. Al Zahrani, A. Al Musa, M. Al Saleh, M. Abu Riash, A. Alodaib and **K. Abu-Amero** (2009). Molecular Genotyping of Hemophilia A in Saudi Arabia: Report of 2 Novel Mutations. *Blood Coagulation and Fibrinolysis* 20(6): 415-418.
54. **Khaled K. Abu-Amero**, Ali Hellani, Patrick Bender, George L. Spaeth, Jonathan Myers, L. Jay Katz, Marlene Moster and Thomas M. Bosley (2009). High-Resolution Analysis of DNA Copy Number Alterations in Patients with Primary Open Angle Glaucoma. *Molecular Vision* 15: 1594-1598.
55. **Khaled K. Abu-Amero**, Barry Milcaek and Thomas M. Bosley (2009). GSTM1 and GSTT1 Deletion Genotypes in Various Spontaneous Optic Neuropathies in Arabs. *British Journal of Ophthalmology* 93(8): 1101-1104.
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39. **Khaled K. Abu-Amero**, Thomas M. Bosley **(2005)**. Sequencing the entire mtDNA coding region in LHON patients without Primary LHON mutations: Biochemical and Molecular Characterization. ***American Journal of Human Genetics (Supplement)***. Abstract # 1339 presented at the 55<sup>th</sup> American Society of Human Genetics, Salt Lake City, Utah, USA.
40. **Khaled K. Abu-Amero**, Thomas M. Bosley **(2005)**. Clinical, Biochemical and Molecular characterization of Saudi patients with Leber Hereditary Optic Neuropathy. Abstract presented at the Molecular Genetics in Medicine Conference held on the 21<sup>st</sup> December 2005 at King Fahad Hospital, Eastern province, Saudi Arabia.

41. **Abu-Amero, K;** Bosley, TM; Ozand, PT. **(2004)**. Association of mitochondrial DNA mutations with non-arteritic anterior ischemic optic neuropathy. *Journal of Medical Genetics* 41 S66-S66.
42. **Abu-Amero, K;** Al-Boudari, OM; Dzimiri, N. **(2004)**. Relevance of b3-adrenoceptor for coronary heart disease in the Arab population. *Journal of Medical Genetics* 41 S70-S70.
43. **Khaled K. Abu-Amero (2004)**. Mutation detection in Saudi patients with Hemophilia A: current status and future plan. The 1<sup>ST</sup> Saudi International Symposium on Bleeding Disorders (21-23 February 2004).
44. **K. K. Abu-Amero, T. M. Bosley and P. T. Ozand (2004)**. Association of mitochondrial DNA mutations with non-arteritic anterior ischemic optic neuropathy. *Journal of Medical Genetics (Supplement No.1)*. P. 3.16
45. **Khaled K. Abu-Amero, Thomas M. Bosley and Saeed Bohlega (2004)**. Association of the mitochondrial T9957C MELAS mutation with Non-Arteritic Anterior Ischemic Optic Neuropathy. *American Journal of Human Genetics (Supplement)*. Abstract # 1561 presented at the 54<sup>th</sup> American Society of Human Genetics.
46. **Khaled K. Abu-Amero, Minjing Zou and Yufei Shi (2004)**. "Mitochondrial A13514G mutation without MELAS but in association with papillary thyroid carcinoma. *Clinical Genetics* 66:569-570.
47. **Khaled K. Abu-Amero, M. H. Al-Hamed, F. S. Al-Batniji (2003)**. Homozygous protein C deficiency with Purpura Fulminans: Reporting of a new case and a description of a novel mutation. *Blood Coagulation and Fibrinolysis* 14 (3):303-306.
48. S. Bohlega, A. Al-Shubili, **K. Abu-Amero**, A. Edris, T. Khairallah, M. Kambouris **(2003)**. Cadasil in Arabs. *Neurosciences Journal* 8(1): 41
49. **Khaled K. Abu-Amero, Carol A. Wyngaard and Nduna Dzimiri (2003)**. Lack of Association between the *PR<sup>A1</sup>* platelet glycoprotein GPIIIa polymorphism and coronary artery disease in Middle-eastern Arabs. Oral presentation at the International Genetics Conference, Dubai UAE (9-11 December 2003).
50. **Khaled K. Abu-Amero, Thomas M. Bosley, and Pinar Ozand (2003)**. Mitochondrial DNA analysis in Saudi Arabs with Leber's Hereditary Optic Neuropathy: Unexpected Findings. Oral presentation at the International Genetics Conference, Dubai UAE (9-11 December 2003).
51. S. Bohlega, A. Al-Shubili, **K. Abu-Amero**, A. Edris, T. Khairallah, M. Kambouris **(2003)**. Cadasil in Arabs. *Neurosciences Journal* 8(1): 41

52. Khan, L., **Abu-Amero, K.**, Halablab, M., Nicholas, R. and Miles, R (**2002**). Alcohol oxidising activity in *Acholeplasma* and *Mycoplasma* species. Abstracts of the 13th IOM (International Organisation for Mycoplasmaology) Congress, Japan p. 187.
53. **K. Abu-Amero**, S. Bohlega, A. Al-Shubili and M. Kambouris (**2002**). Clinical and Genetic Spectrum of CADASIL in three Arab Families. *Journal of Medical Genetics* 39: S63 –S63 304 Suppl. 1.
54. **K. K. Abu-Amero**, M. H. Al-Hamed and F. S. Al-Batniji (**2002**). A Novel mutation in the protein C gene causing neonatal purpura fulminans. *American Journal of Human Genetics* (Supplement) **71**(4): 524
55. **Khaled K. Abu-Amero** (**2002**). Molecular Genetics Laboratory: Update requirements for accreditation by the College of American Pathologists. Abstract presented at the 8<sup>th</sup> Symposium on Genetics in Health and Disease, College of Medicine, King Saud University, Riyadh, Saudi Arabia (2-4 November 2002).
56. Khan, L; Loria G; **Abu-Amero, K**; Nicholas, R; Halablab, M and Miles, R. (**2000**). Distictive biochemical characterstics of *Mycoplasma agalactiae* and *Mycoplasma bovis*. Vol 5 *Mycoplasmas of ruminants; pathogenicity, diagnostics, epidemiology and molecular genetics* (European Commission; 2001 (ISBN 9282906124).
57. A.M. Al-Rasheed, S. Al-Attayah, **K. Abu-Amero** and W. AbdulSamad (**2000**). The status of drug resistance tuberculosis in Saudi Arabia: An-Eleven-year retrospective study of pulmonary isolates. An abstract presented at the 9<sup>th</sup> International congress on infectious diseases (Argentina, April 2000).
58. A.M. AL-Rasheed, **K. Abu-Amero**, W. Abdulsamad and S. Alattayah (**1999**). Low Prevalence of Multi-Drug resistance Tuberculosis in Saudi patients: An Eleven-Year Retrospective study. A refereed abstract presented at the 20<sup>th</sup> Annual Congress of the European Society of Mycobacteriology, Lucerne, Switzerland, July 4-7, 1999.
59. **K.K. Abu-Amero**, A.M. Al-Rasheed and W. Abdulsamad (**1999**). Cholesterol protects mollicutes against the oxidative damage caused Hydrogen peroxide. A refereed abstract presented at the Symposium on Laboratory Medicine in the 21 st Century, Riyadh, SA (May 1999).
60. A.M. Al-Rasheed, W. Abdulsamad and **K. Abu-Amero** (**1999**). Blood isolates and their *in vitro* antimicrobial susceptibility: A one-year retrospective study of ICU patients. A refereed abstract presented at the 39<sup>th</sup> Inter-science Conference on Anti-microbial Agents and Chemotherapy, San Francisco, California, USA (September 26-29, 1999).
61. Al-Rasheed, A.M, **Abu-Amero, K** and Abdulsamad, W (**1998**). Tuberculosis: Status of Multi-Drug Resistance in Riyadh. An abstract presented at the New Challenges in Infectious

Diseases Symposium held from 7-9 Dec. 1998 at King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia.

62. Miles, R.J., Ozcan, S.A., **Abu-Amero, K.K.**, Halablab, M.A. and Agbanyim, C. **(1996)**. New approaches to the development of biochemical diagnostic tests and selective media for specific *Mycoplasma* groups. ***International Organisation of Mycoplasma Letters* 4:180.**
63. **Abu-Amero, K.K.**, Halablab, M.A. and Miles, R.J. **(1996)**. Nisin resistance of *Mycoplasma* species: a basis for selective growth media and differentiation from *Acholeplasma* species. ***International Organisation of Mycoplasma Letters* 4:156-157.**

**SCIENTIFIC  
REVIEWING****Scientific Journals**

Molecular Vision  
Investigative Ophthalmology & Visual Sciences  
Saudi Journal of Ophthalmology  
International Ophthalmology  
Journal of Ophthalmology  
Open Journal of Autism  
Expert Opinion in Ophthalmology  
British Journal of Ophthalmology  
Ophthalmic Genetics  
Journal of Medical Genetics  
Journal of Medical Case Reports  
BMC Evolutionary Biology  
Journal of Child Neurology  
Journal of Medical Genetics  
BMC Research Notes  
Saudi Medical Journal  
Indian Journal of Medical Sciences  
Antolian Journal of Cariology  
Molecular Biology Reports  
Journal of Medical Genetics and Genomics  
American Journal of Human Genetics  
American Journal of Medical Genetics  
Current Eye Research  
Eye  
British Journal of Medicine and Medical Research  
BMC Ophthalmology  
International Journal of Biomedical Sciences  
Archives of Dermatological Research  
Journal of Clinical Ophthalmology  
Molecular and Cellular Biochemistry  
World Journal of Pediatrics  
World Journal of Medical Genetics.  
King Faisal Specialist Hospital  
Qatar University  
Gulf University, Bahrain  
King Abdulaziz City for Science & Technology  
College of Medicine RC, King Saud University  
"Fight for Sight" charity in the UK.

**Research Projects**

**TEACHING EXPERIENCE & STUDENTS SUPERVISION**

1. Taught undergraduate students at Kings College London in various courses in Molecular microbiology and molecular biology.
2. Presented many lectures to local, regional and international audience in the field of Medical Genetics.
3. Involved in teaching of the Ophthalmology resident at college of medicine, King Saud University. I usually present six lectures each academic, one hour each, in ophthalmic genetics entitled [introduction to genetics, basic medical genetics, molecular genetics techniques and their applications, ophthalmic genetics (1), ophthalmic genetics (2) and genetic testing for inherited ophthalmic diseases].
4. I am teaching the Ophthalmic Genetics Curriculum (12 lectures, one hour each) to Ophthalmology Fellows at University of Florida, College of Medicine, Jacksonville, FL.
5. Involved in teaching of the first year ophthalmology resident under the basic science course. I usually present 4 lectures each academic, one hour each, entitled [principles of conducting scientific research, study design and research methodology, ethical principles and guidelines for research involving human subjects and information, databases and internet resources available for ophthalmologists].
6. Actively participated in the establishment of a Master degree program entitled "MSc in Basic Ophthalmic Sciences" at the Department of Ophthalmology, College of Medicine, King Saud University. I am currently the director of the program and I also teach in this program in various courses: OPT 510 Human Genetics; OPT 520 Ophthalmic Genetics; OPT 526 Research methodology and ethics and OPT 524 Basic techniques in molecular and cell biology. I also supervise all second year students for their MSc thesis (overall my teaching activity in this program is about 52 actual hours).
7. Supervised many undergraduate students (16 students) in several topics related to Microbiology and Molecular biology.
8. Supervised 4 MSc students in several topics related to medical genetics and intrauterine growth retardation, London, UK.
9. Supervised one MSc student (Mr. Nasher Al-Yammei) at the Gulf University College of Medicine-Bahrain.
10. Supervised one Ph.D. student (Dr. Mazhoor Al-Doasri) at the university of Newcastle in England (in collaboration with Prof. Rob Taylor) to work on "Molecular Characterizations of various mitochondrial disorders).

**INVITED LECTURES**

1. Presented a lecture entitled "Advances in Glaucoma-Genetics: Potential Impact on Genotype-Phenotype Correlation" presented at the 1<sup>st</sup> Asia-Pacific Glaucoma Congress, Bali, Indonesia (**7-9 December, 2012**).
2. Cytogenetic Microarray Data Analysis and reporting workshop, organized by Affymetrix, Dubai, UAE (**26-27 November, 2012**).
3. Presented a lecture entitled "Detection of CNVs in clinical settings: Pathogenic or not pathogenic; that is the question" presented at the Cytogenetic Microarray Data Analysis and reporting workshop, organized by Affymetrix, Dubai, UAE (**26-27 November, 2012**).
4. A lecture entitled "Genetic Testing & Counseling Issues for Ophthalmic Diseases" presented through webcast to the ophthalmology residents at university of Florida, Department of Ophthalmology, College of Medicine, Jacksonville, Florida, USA (**10 May 2012**).
5. A lecture entitled "Role of Mitochondrial Haplogroups in various types of glaucoma in Saudi Arabia" presented at the 27<sup>th</sup> APAO/SOE meeting, Busan, South Korea (**14<sup>th</sup> April, 2012**).
6. A lecture entitled "Ocular conditions associated with increased risk of malignancy: Genetic Perspective" presented through webcast to the ophthalmology residents at university of Florida, Department of Ophthalmology, College of Medicine, Jacksonville, Florida, USA (**05 April 2012**).
7. A lecture entitled "Genetics of Inherited metabolic diseases involving the eye" presented through webcast to the ophthalmology residents at university of Florida, Department of Ophthalmology, College of Medicine, Jacksonville, Florida, USA (**08 March 2012**).
8. A lecture entitled "Congenital Cranial Dysinnervation Disorders: Genotype and Phenotype" presented through webcast to the ophthalmology residents at university of Florida, Department of Ophthalmology, College of Medicine, Jacksonville, Florida, USA (**09 February 2012**).
9. A lecture entitled "Genetics of Optic Neuropathies" presented through webcast to the ophthalmology residents at university of Florida, Department of Ophthalmology, College of Medicine, Jacksonville, Florida, USA (**12 January 2012**).
10. A lecture entitled "Genetics of Inherited retinal diseases" presented through webcast to the ophthalmology residents at university of Florida, Department of Ophthalmology, College of Medicine, Jacksonville, Florida, USA (**08 December 2011**).
11. A lecture entitled "Genetics of Corneal Diseases" presented through webcast to the ophthalmology residents at university of Florida, Department of Ophthalmology, College of Medicine, Jacksonville, Florida, USA (**03 November 2011**).
12. A lecture entitled "Genetics of Adult and Pediatric Glaucoma" presented through webcast to the ophthalmology residents at university of Florida, Department of Ophthalmology, College of Medicine, Jacksonville, Florida, USA (**06 October 2011**).
13. A lecture entitled "Genetic Techniques and Their Applications" presented through webcast to the ophthalmology residents at university of Florida, Department of Ophthalmology, College of Medicine, Jacksonville, Florida, USA (**08 September 2011**).
14. A lecture entitled "Aspects of Mendelian and Mitochondrial Genetics" presented through webcast to the ophthalmology residents at university of Florida, Department of Ophthalmology, College of Medicine, Jacksonville, Florida, USA (**11 August 2011**).

15. A lecture entitled "Introduction to Genetics" presented through webcast to the ophthalmology residents at university of Florida, Department of Ophthalmology, College of Medicine, Jacksonville, Florida, USA (**14<sup>TH</sup> July 2011**).
16. A lecture entitled "Genetics of Congenital Glaucoma: the Saudi experience" presented at the World Glaucoma Congress, Paris, France (June 29 – July 02).
17. A lecture presented at department of ophthalmology, college of medicine, university of Florida, Jacksonville entitled "Ophthalmic Genetics Laboratory in Riyadh" (April 2011).
18. A lecture presented at university of Majamma entitled "Principles of conducting basic scientific research", Majamma, Saudi Arabia (26 Feb. 2011).
19. A lecture presented at university of Majamma entitled "Ethical considerations in research involving human subjects", Majamma, Saudi Arabia (26 Feb. 2011).
20. A lecture presented at university of Majamma entitled "DOS AND DON'T'S of grant writing", Majamma, Saudi Arabia (27 Feb. 2011).
21. A lecture presented at university of Majamma entitled "How to present your research findings", Majamma, Saudi Arabia (27 Feb. 2011).
22. A lecture presented at university of Majamma entitled "Case Presentation", Majamma, Saudi Arabia (27 Feb. 2011).
23. A lecture presented at the Saudi Ophthalmology Society entitled "Leber's Hereditary Optic Neuropathy: The mitochondrial connection revisited", Feb. 2011.
24. A lecture presented at the Saudi Ophthalmology Society entitled "Mitochondrial abnormalities in patients with Primary Open Angle glaucoma", Feb. 2011.
25. A lecture presented at the Saudi Ophthalmology Society entitled "Lack of chromosomal deletion(s) and duplication(s) in sporadic cases of Keratoconus", Feb. 2011.
26. A lecture presented at the Saudi Ophthalmology Society entitled "Lack of chromosomal deletion(s) and duplication(s) in sporadic cases of Keratoconus", Feb. 2011.
27. "Mitochondrial abnormalities in POAG patients" at the 34<sup>th</sup> Seminar on Glaucoma: from basic science to clinical practice. College of Medicine, King Saud University, Riyadh (6-7 December, 2010).
28. Presented a lecture entitled "LOXL1 mutations as a risk factor for pseudoexfoliation glaucoma in the Saudi population" at the 34<sup>th</sup> Seminar on Glaucoma: from basic science to clinical practice. College of Medicine, King Saud University, Riyadh (6-7 December, 2010).
29. Presented a lecture entitled "LOXL1 mutations as a risk factor for pseudoexfoliation glaucoma in the Saudi population" at the 34<sup>th</sup> Seminar on Glaucoma: from basic science to clinical practice. College of Medicine, King Saud University, Riyadh (6-7 December, 2010).
30. Presented a lecture entitled "Updates on Glaucoma Genetics" at the 34<sup>th</sup> Seminar on Glaucoma: from basic science to clinical practice. College of Medicine, King Saud University, Riyadh (6-7 December, 2010).
31. "Principles and methods of conducting a scientific research" at the department of anesthesia, King Abdulaziz University Hospital, Riyadh, Saudi Arabia [May 2010].
32. Presented a lecture entitled "Genetics of Keratoconus" at Al-Hokama Eye Specialist Center, Riyadh, Saudi Arabia [27<sup>th</sup> Feb, 2010].
33. Presented a lecture entitled "Information, databases and internet resources for ophthalmologists" to ophthalmology residents, College of Medicine, KSU, Riyadh, Saudi Arabia [2009].

34. Presented a lecture entitled "Ethical principles and guidelines for research involving human subjects" to ophthalmology residents, College of Medicine, KSU, Riyadh, Saudi Arabia [2009].
35. Presented a lecture entitled "Principles of conducting basic biomedical research" to ophthalmology residents, College of Medicine, KSU, Riyadh, Saudi Arabia [2009].
36. Presents various lectures in Ophthalmic and basic genetics to residents, specialists and consultants, King Saud University, college of medicine.
37. Presented a series of 6 lectures in "Ophthalmic Genetics" to the Ophthalmology subspecialty residents, ophthalmology fellowship program, King Saud University, Riyadh, Saudi Arabia. These lectures entitled: lecture 1 "Basic Genetics"; lecture 2 "Medical Genetics"; lecture 3 "Techniques in Medical Genetics and its Applications"; lecture 4 "Ophthalmic Genetics (1)"; lecture 5 "Ophthalmic Genetics (2)" and lecture 6 "Genetics Testing for Hereditary Ophthalmic Diseases".
38. Presented a lecture entitled "Genetics of Glaucoma in Saudi Arabia" at the Grand Rounds, King Khaled Eye Specialist Hospital, Riyadh, Saudi Arabia [12<sup>th</sup> January, 2009].
39. Presented a lecture entitled "Haemophilia A: from mutation analysis to new therapies", Doha, Qatar (February 2008).
40. Presented a lecture "Implications of Genetics in Prevention and Care of Children with Special Needs" at HMC, Doha, Qatar.
41. Presented a lecture "Mitochondrial Disorders in the Arab world" Presented at the Hamad Medical Corporation, Doha, Qatar.
42. Presented a lecture "Genetics of Autism", (04 April 2007), Doha, Qatar.
43. Presented a lecture Presented a lecture at the Shafallah Center for Children with special needs entitled "Basic Guide to Medical Genetics", Feb. 2007.
44. I organized a symposium on Mitochondrial Abnormalities in Various Optic Neuropathies – 07 Nov 2006- I presented three lectures in this symposium entitled: 1) Mitochondrial abnormalities in LHON patients; 2) Mitochondrial abnormalities in POAG patients and 3) Vision for the future.
45. Presented series of 5 lectures on the use of PCR technology in diagnostic application of Medical genetics at KFSH, Riyadh, Saudi Arabia.
46. Presented series of lectures in the field of Medical Genetics at King Faisal Specialist Hospital, Riyadh, Saudi Arabia.
47. Presented a lecture entitled " Genetics of Silver-Russell Syndrome" at College of Medicine, Imperial college of science technology and medicine – June 1997 –London, UK.
48. Presented 3 lectures at King's college research day (1994, 1995, 1996) on Molecular genetics typing of Mycoplasma spp.

**TRAINING COURSES & WORKSHOPS**

1. Certificate of attendance of workshop entitled "Cytogenetic Microarray Data Analysis and reporting workshop", organized by Affymetrix, Dubai, UAE (**26-27 November, 2012**).
2. Certificate of attendance of workshop entitled "Micro-Teaching" organized by the deanship for skills development at King Saud University, Riyadh, Saudi Arabia (**16 October 2012**).
3. Certificate of attendance of workshop entitled "Learning Outcomes Assessment" organized by the deanship for skills development at King Saud University, Riyadh, Saudi Arabia (**6-7 October 2012**).
4. Certificate of attendance of workshop entitled "College Effective Teaching" organized by the deanship for skills development at King Saud University, Riyadh, Saudi Arabia (**30 Sept. - 01 October 2012**).
5. Certificate of attendance of workshop entitled "Discipline and Pedagogy based teaching" organized by the deanship for skills development at King Saud University, Riyadh, Saudi Arabia (**22<sup>th</sup> April 2012**).
6. Certificate of attendance of workshop entitled "Incorporating Technology into University teaching" organized by the deanship for skills development at King Saud University, Riyadh, Saudi Arabia (**29-04-2012 to 01/05/2012**).
7. Certificate of attendance of workshop entitled "Students Learning Support" organized by the deanship for skills development at King Saud University, Riyadh, Saudi Arabia (**07<sup>th</sup> April 2012**).
8. Certificate of attendance of workshop entitled "Course Design and Construction" organized by the deanship for skills development at King Saud University, Riyadh, Saudi Arabia (**28-04-2012**).
9. Certificate of attendance of workshop entitled "Developing Teaching e-Portfolio" organized by the deanship for skills development at King Saud University, Riyadh, Saudi Arabia (**20<sup>th</sup> March 2012**).
10. Certificate of attendance of workshop entitled "Current Topics in Curriculum Development" organized by the College of Applied Medical Sciences at King Saud University, Riyadh, Saudi Arabia (**10<sup>th</sup> March 2012**).
11. Certificate of attendance of workshop entitled "Leadership and career development issues in Applied Medical Sciences" organized by the College of Applied Medical Sciences at King Saud University, Riyadh, Saudi Arabia (**10<sup>th</sup> March 2012**).
12. Certificate of attendance of workshop entitled "Active Learning Strategies" organized by the deanship of skills development at King Saud University, Riyadh, Saudi Arabia (**1-2 January 2011**).
13. Certificate of attendance of workshop entitled "Open Source Software" organized by the deanship of skills development at King Saud University, Riyadh, Saudi Arabia (**28-29 November 2010**).
14. Certificate of attendance of workshop entitled "Advanced PowerPoint presentations" organized by the deanship of skills development at King Saud University, Riyadh, Saudi Arabia (**25-26 October 2010**).
15. Attended a two days hands-on workshop entitled "Microarray Data Analysis Hands-on course" (**June 2<sup>nd</sup> – 3<sup>rd</sup>, 2010**). Organized by gulf scientific corporation, Dubai, UAE.

16. Attended three days training course on Adobe Photoshop software, King Saud University **(01-03 May 2010)**.
17. Attended two days training course on MindMap software, King Saud University **(April 2010)**.
18. Attended a one day proteomics workshop, college of medicine, King Saud University **(01 Feb. 2010)**.
19. Attended 3 days course on Good Clinical Practice Accreditation Course **(19-21 October, 2009)** and passed the examination (certified GCP), College of Medicine, Riyadh, Saudi Arabia.
20. Attended three days workshop entitled "faculty enhancement medical education workshop" organized by the medical education department at college of medicine, King Saud University, Riyadh, Saudi Arabia **(27-29 September 2009)**.
21. Certificate of attendance of workshop entitled "Integration of Educational Technology in Teaching" organized by the deanship of skills development at King Saud University, Riyadh, Saudi Arabia **(24-25 January 2009)**.
22. Certificate of attendance of workshop entitled "Course construction" organized by the deanship of skills development at King Saud University, Riyadh, Saudi Arabia **(24-25 January 2009)**.
23. Certificate of attendance of workshop entitled " Teaching Quality in Higher Education" organized by the deanship of skills development at King Saud University, Riyadh, Saudi Arabia **(17-18 /1/2009)**.
24. Certificate of participation in a workshop entitled "Recent Advances in Clinical Genetics and Mitochondrial Disorders" Riyadh, Saudi Arabia **(March 2003)**.
25. Certificate of completion of laboratory accreditation program conference entitled "Molecular Pathology" from the College of American Pathologists **(2002)**.
26. Certificate of attending a series of lectures on "Fundamentals of Conducting Research: Doing it right" organized by the office of Research affairs **(2001)**.
27. Certificate of completion of laboratory accreditation program conference entitled "The Summation Conference" from the College of American Pathologists **(2001)**.
28. Workshop entitled: Implementing a Quality System: A practical Approach, organized by the National Commission of Clinical Laboratory Standards, Virginia, USA **(April, 2001)**.
29. Certificate of attending the Inspector Training Seminar organized by the College of American Pathologists, Baltimore, Maryland, USA **(April, 2001)**.
30. Certificate of completion of laboratory accreditation program conference entitled "Checklist update" from the College of American Pathologists **(2001)**.
31. Certificate of completion of laboratory accreditation program conference entitled "Solution for the Most Common Deficiencies" from the College of American Pathologists **(2001)**.
32. Certificate of completion of laboratory accreditation program conference entitled "Meeting the QI/QC requirements" from the College of American Pathologists **(2001)**.
33. Certificate of completion of laboratory accreditation program conference entitled "Mastering the Inspection Process" from the College of American Pathologists **(2001)**.
34. Certificate of attending a workshop entitled "Pyrosequencing System for SNP's Analysis", Sweden **(June, 2001)**.
35. Certificate of completion of the "Human Participants Education for Research Teams" course sponsored by the National Institute of Health (NIH) **(July, 2001)**.

36. Certificate of completion of laboratory accreditation program conference entitled "Laboratory Safety" from the College of American Pathologists **(2001)**.
37. Certificate of training on the COBAS AMPLICOR- Amplilink 1.3 software from Roche diagnostics **(June 12-13, 2000)**.
38. Attended a one-day training course on the Light-Cycler (Roche Diagnostics), Riyadh **(10 October 2000)**.
39. Certificate of passing the basic inspector exam, for the purpose of laboratory accreditation, from the College of American Pathologists **(Sept. 2000)**.
40. Quantiplex branched DNA System 340 from CHIRON Diagnostics **(Feb. 2000)**.
41. Certificate from Mayo School of Continuing Medical Education for attending a series of lectures on primary care updates in selected topics (e.g Liver transplantation, Update on Chronic Hepatitis-C) **(April 9-10, 2000 Riyadh, Saudi Arabia)**.
42. E-test by AB-Biodisk, Sweden, **(April 1999)**.
43. Workshop on the Role of advanced lab. Technology in TB control, Riyadh, SA **(May 1999)**.
44. Quality assurance/quality care in diagnostic applications of Molecular Biology. Short course, Etten-Leur, The Netherlands **(May 1999)**.
45. Bactec MGIT-960 for automation TB diagnosis by Becton & Dickinson (May 1999).
46. Training on the COBAS AMPLICOR-PCR analyzer (operator training course) from Roche diagnostics **(June 5-10, 1999)**.
47. Bactec 9000 Blood culture system by Becton & Dickinson **(1998)**.
48. Automated DNA Sequencer (API Prism Model -337) at the Hammersmith hospital **(January 1998)**.
49. Molecular Biology Update from the University of Westminster, London, UK **(1992)**.

## LABORATORY TECHNICAL SKILLS

1. Establishing, performing & interpreting DNA diagnostic testing, assessing and co-signing clinical and prenatal cases for diseases such as Cystic Fibrosis, Fragile-X Syndrome, Multiple Endocrine Neoplasia (MEN 2A, 2B), Medullary Thyroid Carcinoma (MTC), Duchene Muscular Dystrophy, Spinal Muscular Atrophy, Myotonic Dystrophy, Sickle Cell Disease, Huntington Disease, Hemochromatosis, Factor V Leiden, Prothrombin G20210A, Methylene Tetrahydrofolate Reductase (MTHFR), Protein C deficiency and many more genetics disorders. Basically, able to perform many molecular genetics diagnostic tests involving mutation detection, genomic copy number screening, uniparental disomy, tri-nucleotide repeats detection.
2. Experienced in many molecular biology techniques such as PCR-RT-PCR, DNA and RNA extraction from various samples, restriction enzyme digestion, SSCP, Heteroduplex analysis, Sequencing, Genotyping, real-time PCR, high scale genotyping and whole genome expression profiling on the affymetrix platform, Southern blotting and various molecular biology techniques.
3. Experience in interphase FISH –Reading and Reporting
4. Capable of carrying out various functional and enzymatic biochemical assays.

5. I am experienced in the operation, maintenance, troubleshooting of the following platforms: the affymetrix platform, various sequencing platforms and real-time PCR.
6. Special expertise in the diagnosis of various muscle and nerve disorders (Molecular and Biochemical).
7. Experience in arrayCGH technique and regular chromosomal karyotyping (technical and interpretation of the results).
8. Experienced in various Biochemistry and Microbiology techniques.
9. Can lead a diagnostic or research teams to perform multi-tasks related to routine work or medical research.
10. Love scientific-writing and wrote all my manuscripts and published scientific articles in various newspapers and magazines.
11. Certified Inspector from the College of American Pathologists for laboratory accreditation purposes.

## **OTHER SKILLS**

1. Speaks and write English and Arabic with excellent command in both languages.
2. Computer skills (Microsoft office, Adobe Photoshop, Excel and a variety of Bioinformatics software in the field of Molecular Biology, SPSS statistical software, Sequencing and Genotyping software, Pathway and Microarray analysis software such as Array Assist and Pathway Architect).
3. Organization skills – served on the organizing committee for many local and international conferences.

**CONFERENCES**

1. Attended the 1<sup>st</sup> Asia-Pacific Glaucoma Congress, Bali, Indonesia (7-9 December, 2012).
2. Attended the 38<sup>th</sup> seminar on "Imaging in Ophthalmology" organized by the department of ophthalmology, college of medicine, King Saud University (15-16 October 2012).
3. Attended ARVO annual ophthalmology conference in Fort Lauderdale, Florida (6-10 May, 2012).
4. Attended the 27<sup>th</sup> APAO/SPE ophthalmology conference in Busan, Korea (12-15<sup>th</sup> April, 2012).
5. Attended the Saudi Ophthalmology Society annual meeting, Riyadh, Saudi Arabia (3-4 April, 2012).
6. Participated in the 4<sup>th</sup> Postgraduate Medical Education Research Day at College of Medicine, King Saud University, Riyadh (Fe. 02, 2012).
7. The Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, FL, USA (2011).
8. Saudi Ophthalmology Society annual meeting, Riyadh, Saudi Arabia (Feb. 2011).
9. Attended the one day seminar entitled "Neuro-Ophthalmology in the 21<sup>st</sup> Century", Main Auditorium, College of Medicine, King Khaled University Hospital. (May 16, 2011).
10. Attended the 4<sup>th</sup> World Glaucoma Congress, Paris, France (June 29-July 2, 2011).
11. Attended a two day seminar entitled "Recent Advances in Keratoplasty", Main Auditorium, College of Medicine, King Khaled University Hospital. (Dec. 5-6, 2011).
12. Attended a one day symposium entitled "Diabetic Retinopathy from basic science to clinical practice", Main Auditorium, College of Medicine, King Khaled University Hospital, (14-15, December, 2010).
13. Attended a one day symposium entitled "Controversies and challenges in Keratoconus" at al-Hokama Eye Specialist Centre, Riyadh, Saudi Arabia (27<sup>TH</sup> Feb. 2010).
14. Saudi Ophthalmology Society annual meeting, Riyadh, Saudi Arabia (Feb. 2010).
15. Attended a two day symposium entitled "Glaucoma from basic Science to Clinical practice", Main Auditorium, College of Medicine, King Khaled University Hospital, Riyadh, Saudi Arabia (6-7<sup>th</sup> December, 2010).
16. British Society of Human Genetics annual meeting [2010].
17. Saudi Ophthalmology Society annual meeting, Riyadh, Saudi Arabia (Feb. 2009).
18. Attended a one day seminar entitled "Amblyopia & Strabismus: An update", Main Auditorium, College of Medicine, King Khaled University Hospital (May 25, 2009).
19. Attended a two day seminar entitled "Orbital Fracture Repair" Main Auditorium, College of Medicine, King Khaled University Hospital. (Dec. 14-15, 2009).
20. Attended a two day seminar entitled "Diabetic Retinopathy from Basic Science To Clinical Practice" Main Auditorium, College of Medicine, King Khaled University Hospital. (Dec. 14-15, 2009).
21. Attended a one day Seminar entitled "Seminar Ocular Emergencies", Main Auditorium, College of Medicine, King Khaled University Hospital. (May 19, 2008).
22. Attended a two day seminar entitled "Seminar in Micro Incision Cataract Surgery" Main Auditorium, College of Medicine, King Khaled University Hospital. (Oct. 13-14, 2008).
23. British Society of Human Genetics, York (Sept. 2007).

24. Attended the 2<sup>nd</sup> Pan Arab Human Genetics Conference, Dubai (20-22 November, 2007).
25. One day symposium entitled "Mitochondrial Abnormalities in Various Optic Neuropathies" – 07 Nov 2006, Riyadh, Saudi Arabia.
26. British Society of Human Genetics, York (Sept. 2006).
27. Attended The Genetics of Developmental Disabilities symposium entitled: "Diagnosis, treatment and prevention"-, KFSH&RC, Riyadh, Saudi Arabia. 16-18 November 2006
28. British Society of Human Genetics, York (Sept. 2005).
29. American Society of Human Genetics, Salt lake city, Utah, USA (October, 2005).
30. The 1<sup>st</sup> Saudi International Symposium on Bleeding Disorders, KFSH, Riyadh, Saudi Arabia (21-23 February 2004).
31. British Society of Human Genetics, York (Sept. 2004).
32. American Society of Human Genetics, Toronto, CANADA (October 2004).
33. British Society of Human Genetics, York, UK (Sept. 2003).
34. Recent Advances in Clinical Genetics and Mitochondrial Disorders conference (March 2003) Arab Medica Laboratory exhibition held in Dubai, UAE (2002).
35. British Society of Human Genetics, York, UK (Sept. 2002).
36. American Society of Human Genetics, Baltimore, USA (October 2002).
37. The 8<sup>th</sup> Symposium on Genetics in Health and Disease, College of medicine, King Saud University, Riyadh, Saudi Arabia (2-4 November 2002).
38. Pediatrics in Saudi Arabia in the New Millennium, King Faisal Specialist Hospital and Research (January 2001).
39. The 2<sup>nd</sup> Annual Hematology and Blood Transfusion Symposium, Riyadh, Saudi Arabia (12-15 Feb. 2000).
40. The 21<sup>st</sup> Annual Congress of the European Society of Mycobacteriology (Vienna, Austria, May, 2000).
41. The 1<sup>st</sup> Meeting on Genetic Study for Saudi Diabetics, , Riyadh, Saudi Arabia. (Sep. 2000).
42. The 20<sup>th</sup> Annual Congress of the European Society of Mycobacteriology (Lucerne, Switzerland, 1999).
43. First Saudi Conference for Health Studies and Training, RAFH, Riyadh, Saudi Arabia (Feb. 1999).
44. Symposium on Laboratory Medicine in the 21st Century, Riyadh, SA (May 1999).
45. British Society of Human Genetics, York, UK (Sept. 1999).
46. Arab Medica Laboratory exhibition held in Dubai, UAE (1998).
47. The 1<sup>st</sup> G.C.C Blood Transfusion Conference, ABU-DHABI, UAE (Sept. 1998).
48. New Challenges in Infectious Diseases, Riyadh, Saudi Arabia (Dec. 1998).
49. British Society of Human Genetics, York, UK (Sept. 1997).
50. British Society of Human Genetics, York, UK (Sept. 1997).
51. British Society of Human Genetics, York, UK (Sept. 1996).
52. The 11<sup>th</sup> conference of the International Organisation for Mycoplasma, Orlando, Florida, USA, 1996).

**COMMUNITY SERVICES AND VOLUNTER WORK**

1. Glaucoma Awareness Day (1), King Abdulaziz University Hospital (Feb. 03, 2011).
2. Glaucoma Awareness Day (2) , King Abdulaziz University Hospital (May 26, 2011).
3. Glaucoma Awareness Day (3) , King Abdulaziz University Hospital (Dec. 03, 2012).
4. Public Lecture presented at Prince Nourah University entitled "Genetics & Health" , Riyadh, Saudi Arabia.
5. Basic Research Methodology, University of Majamma (27-28/2/2011).
6. Running for cancer marathon (fund raising event to raise funds for cancer research in the UK) – 2009, 2010.
7. Volunteered during the summer of 1995, 1996, 1997 for the overseas development administration, UK for various humanitarian and educational projects in Chad, Niger, and the Solomon Islands.
8. Transfer of the science laboratories from KSU old campus to the New Derriya campus, King Saud University, Riyadh SA (Summer of 1984).

