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# DANA M. BAKHEET

Genetics Department, King Faisal Hospital & Research Center

## EDUCATION

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- *Doctor of Philosophy in Molecular Pharmacology* (2003), University of Brighton, Brighton, United Kingdom.
- *Master's degree in Cardiovascular Pharmacology* (1997), King Saud University, Riyadh, Saudi Arabia.
- *Bachelor's degree in Pharmaceutical Sciences* (1988), King Saud University. Riyadh, Saudi Arabia.

## PROFESSIONAL EXPERIENCE

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### *Chairperson of Training and Education*

King Faisal Hospital and Research Center/ Department of Genetics, Riyadh, Saudi Arabia. Sep 2014– to date

### *Scientist*

King Faisal Hospital and Research Center/ Department of Genetics, Riyadh, Saudi Arabia. Sep 2007 – to date

### *Associate Professor*

College of Medicine / Alfaisal University, Riyadh, Saudi Arabia. 2009- to date

### *Vice Dean Alfaisal University (Female)*

College of Medicine / Alfaisal University, Riyadh, Saudi Arabia. Sep 2011- to date

### **Judging with Intel International Science and Engineering Fair (ISEF)**

- 2013 May (Phoenix Arizona).
- 2014 May (Los Angeles California).

### *Program Director (King Abdul Aziz Foundation for Giftedness and Creativity)*

Olympiad Program Director at KFSH&RC. Jan 2014.

***Scientific Committee member of OLYMPIAD/ King Abdul Aziz and his Companions Foundation for Giftedness and Creativity***

Feb 2011- to date

***Summer Enrichment Program Director at KFSH and RC for King Abdul Aziz and his companions Foundation for Giftedness and Creativity (Boys and Girls Section)***

Ibn Sina Summer Program 6-28 June 2014

***Course Director Pharmacology***

College of Medicine / Alfaisal University, Riyadh, Saudi Arabia. (2009-2011).

***Vice Head of Pharmacology Department***

College of Pharmacy /King Saud University, Riyadh, Saudi Arabia. (2005-2007).

***Assistant Professor***

Pharmacology Department/ College of Pharmacy, King Saud University, Riyadh, Saudi Arabia. (2003 – 2007).

***Lecturer***

Pharmacology Department/ College of Pharmacy, King Saud University, Riyadh, Saudi Arabia. (1997 – 1999).

***Demonstrator***

Pharmacology Department/ College of Pharmacy, King Saud University Riyadh, Saudi Arabia. (1993 – 1997).

## **TEACHING EXPERIENCES**

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- **RC/KFSH&RC (2011-to date)**  
Visiting High Schools Female Students (Lecture and Lab tours).
- **Educational campaign accompanied by Saudi Human Genome project at different School and Alfaisal university (Nov 2014).**
- **Alfaisal University (2009- to date)**  
Basic and Clinical Pharmacology Courses. Medical College.
- **Princess Nora University (2010)**  
Biochemistry Courses.
- **King Saud University/ Pharmacy College**

**Undergraduate courses (1997-2007):**

General Pharmacology I and II

Clinical Pharmacology

**Postgraduate courses (1997-2007):**

Pharmacological Screening

Research Methodology and Proposal Preparation

Topics in Pharmacology and Seminar

Biostatistics

Drug- Nutrient Interactions (Allied Medical sciences)

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**RESEARCH**

**Pharmacogenetics**

- Pharmacogenetics studies of warfarin and Plavix in Saudi Population.

Variation in response to losartan treatment among Saudi patients with ventricular remodeling in relation to aldosterone synthase gene mutation (or polymorphism).

**Molecular Biology**

- Role of the scaffold Protein Striatin in Regulating Cardiac remodeling.
- Association Studies of specific genes mutations and Cardiovascular Diseases in Saudi Population.
- Identification of Sulfonylurea Receptor SUR1 and Potassium Inward Rectifying Receptor Kir6.2 genes mutations in Saudi patients with persistent hyperinsulinemic hypoglycemia of infancy (Nesidioblastosis).
- Mutational screening of disease related genes (Hemoglobinopathies and rare neurological and mitochondrial disorder): screen for both known and unknown mutations using direct sequencing and specific mutation analysis techniques.
- Identifying new disease related (causing or predisposing) loci and genes (Autism): using linkage analysis, in families where there are autosomal recessive transmission of disease and consanguinity.

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**PROFESSIONAL MEMBERSHIPS**

- INSAR International Society for Autism Research.
- British Pharmaceutical Society.
- Saudi Pharmaceutical Society.

- Saudi Women Scientist Committee.
- Arabian Network for Women in Science and Technology.

## **PUBLICATIONS AND ABSTRACTS**

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Ahmad Adi, Bassam Bin Abbas, Mohamed Al Hamed, Nada Al Tassan, **Dana Bakheet**. Screening for mutations in *ABCC8* and *KCNJ11* genes in Saudi persistent hyperinsulinemic hypoglycemia of infancy (PHHI) patients. Accepted in publication **March 2015**, Genes.

Tayeb Hamsa; **Bakheet Dana**; Zaza Khaled; Wakil Salma; Dzimiri, Nduna. Genotyping of *CYP2C19* polymorphisms and its clinical validation in the Saudi population. Paper ID JPP-14-0517.R1. Journal Of Pharmacy and Pharmacology. **November 2014**.

Adi A, Bin Abbas B, Al Hamed M, Al Tassan N, **Bakheet Dana**. Screening for mutations in *ABCC8* and *KCNJ11* genes in Saudi persistent Hyperinsulinemic Hypoglycemia of Infancy (PHHI) patients. Paper ID 1370126. OJGEN open journal. **June 2014**.

Moni Nader, Bariaa Khalil, Peter Kvietys, **Dana Bakheet**, and Nduna Dzimiri. Striatin: a novel regulator of cardiomyocyte calcium homeostasis and contraction (864.3) FASEB J **April 2014**.

Jameela shinwari, Tahani alshehri, Asma Tahir, Abdullah Aljefri, abulkareem Almoomen, **Dana Bakheet**, Mohammed Al Anazi, Arjumand Warsi, Nada Al Tassan. Variable B-globin haplotypes in Saudi B thalassemia population. Open Journal of Genetics. **September 2013**.

Moni Nader, Bariaa Khalil, Ahmed Abu-Zaid, A'man Inaya, **Dana Bakheet** and Nduna Dzimiri. Role of the scaffold protein striatin in regulating the excitation-contraction coupling in cardiomyocytes. FASEB Journal. **April 2013**.

**Dana Bakheet**, Mohammed Al-Najai, Nejat Mezhar, Samar El Hawwari, Editha Andres, Mary, Maie Alshahid, Paul Muiya, Brian F Meyer, and Nduna Dzimiri. Evaluation of the *HNF1* gene as a risk factor for metabolic syndrome in the Saudi Population. FASEB J **April 9**, 2013 27:1085.15.

Tahani al shehri. Jameela shinwari, Asma Tahir, Abdullah Aljefri, abulkareem Almoomen, **Dana Bakheet**, Mohammed Al Anazi, Arjumand Warsi, Nada Al Tassan. Variable b-globin haplotypes in Saudi beta thalassemia population. Submitted to BMC Medical Genetics. **(2013)**.

Ahmed Abou-Zaid, Aman Inayah, Azhar Farouqi, Naser Ahmed, **Dana Bakheet**, Nduna Dzimiri and Moni Nader. Striatin is a novel regulator of calcium homeostasis, in cardiomyocytes. The Journal of the Federation of American Society For Experimental Biology. FASEB J. **April 2012**, (Meeting Abstract) 26 IB620.

**D.M.Bakheet**, P. Muiya, S. ElHawari, B.F. Meyer, F. Al Mohanna, M

AlShahid and N Dzimiri. A Study of AGT as a susceptibility gene for hypertension in the Saudi population. (2011). *Experimental Biology* April 2011, Washington, DC, USA.

**Dana Mohammed Bakhit**, Mohammed Al-Najai, Mary Grace B Vigilla, Olyan Al-Boudari, Paul Muiya, Brian F Meyer, Futwan AL-Mohanna, Maie Alshahid and Nduna Dzimiri. (2010). The PON1 is a susceptibility gene for hypertension. *The Journal of the Federation of American Society For experimental Biology. FASEB J.* April (2010). 24 (Meeting Abstract Supplement) lb524.

**Dana Mohammed Bakhit**, Paul Muiya, Daisy Gueco, Brian F Meyer, Futwan Al-Mohanna, Maie Alshahid and Nduna Dzimiri. A study of the role of GATA4 gene polymorphism in myocardial infarction. *The Journal of the Federation of American Society For experimental Biology. FASEB J.* April (2010). 24 (Meeting Abstract Supplement) lb520.

Bohlega S, Al Sharif L, AlKhairallah B, Al Mubarak D, **Bakheet D** and Al Tassan N. (2008) Molecular analysis of APTX and SETX genes in families with ataxia with oculomotor apraxia in Saudi Arabia. *Journal of Neurology*, 255, supplement 2, 69.

El Tahir Kamal E.H and **Bakeet, Dana, M.** (2007). Kynurenic acid as an additional endogenous anti-aggregatory factor. *Saudi Pharmaceutical Journal*, 14 (2); 135-139.

El Tahir Kamal E.H and **Bakheet, Dana, M.** (2006). *Nigella sativa* Linnaeus – The Black Seed: An Unutilized Mine for Multi Cures. A Plea for Urgent Clinical Evaluation of its Volatile Oil. *Taibah University Medical Journal*, 1; 1-19.

**Bakhit, D.**, Yeoman, M.S., Gard., P.R., Dzimiri, N. Effects of blood pressure variation on angiotensin receptor function in spontaneously hypertensive and normotensive rats. (2003). *British Journal of pharmacology*, 138, 162P. British Pharmacological Society Meeting, Brighton, January 7-10.

**Bakhit, D.**, Yeoman, M.S., Gard, P.R., Dzimiri N. Angiotensin receptor expression in the aorta and ascending colon of normotensive and hypertensive rat strains. (2002). *Journal of pharmacy and Pharmacology British*, 54, S103 (242). 139<sup>th</sup> British Pharmaceutical Conference, Manchester, September 23-25.

**Bakhit, D.**, Yeoman, M.S., Gard, P.R., Dzimiri, N. Comparison of the contractile responses of the aorta and ascending colon to angiotensin II and their antagonism by losartan in different rat strains. (2001). *British Pharmaceutical Conference Science Proceedings*, 190. British Pharmaceutical Conference, Glasgow, September 23-26.

**Bakheet D M et al.**, (1999). Studies on the spasmolytic and uterine relaxant actions of N-ethyl and N-benzyl-1,2-diphenyl ethanolamines: elucidation of the mechanisms of action. *Pharmacological Research*.39 (6); 463-470.

El Tahir, Kamal and **Bakheet, Dana M.** (1997). Recent advances in the roles of calcium ions (Ca<sup>2+</sup>) and their antagonism in various body functions. *Saudi*

## BOOKS

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- **Bakheet, D.** Selected topics in Clinical pharmacology. (2007). Al Farazdak press, 1<sup>st</sup> edition, Riyadh.

## PAPERS IN PREPARTION

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- Screening for Mutations in Saudi Beta Globin Gene. (**Submitted to BMC Blood Disorders**)

## PRESENTATIONS IN CONFERENCES

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- Moni Nader, Amani AlGohi, Judie Hoilat, Bariaa Khalil, Peter Kvietys, **Dana Bakheet** and Nduna Dzimiri. Striatin is cleaved during apoptosis in a caspase3 mediated manner: a step towards novel biomarkers for apoptosis. Experimental Biology, **April 2015**, Boston, USA. (**Poster**).
- Moni Nader Bariaa Khalil, **Dana Bakheet**, Nduna Dzimiri and Peter Kvietys. Silencing of striatin alters the association of caveolin3 with the Ltype calcium channel in cardiomyocytes. Experimental Biology, **April 2015**, Boston, USA. (**Poster**).
- Hamsa Tayeb, Mohammed Arafa, **Dana Bakheet**, Duaa Khalaf, Agnieska Tarnoska and Nduna Dzimiri. Prevalance of CYP2D6 and its implications for personalized medicine in Saudi Arabs. XIII International conference on Human Genetics. 16-18 **January 2015**, London UK. (**Poster**).
- Hamsa T. Tayeb, **Dana Bakheet**, Aziza Ajlan, Ahmed Jedai, Khaled Zaza, Nduna Dzimiri. Genotyping of CYP2C19 polymorphisms and its potential clinical application in the Saudi population. 17<sup>th</sup> World Congress of Basic and Clinical Pharamcology **July 2014**. Cape Town, South Africa. (**Poster**).
- Hamsa T. Tayeb, **Dana Bakheet**, Khaled Zaza, Ahmed Jedai, Nduna Dzimiri<sup>1</sup>Genotyping of CYP2C19 polymorphisms and its clinical validation in the Saudi population. Alfaisal University annual Poster Competition Day **April 2014**. (**Poster**)
- Moni Nader, Bariaa Khalil, Peter Kvietys, **Dana Bakheet** and Nduna Dzimiri. A novel regulator of cardiomyocyte calcium homeostasis and contraction. Experimental Biology, **2014 April**, San Diego, USA. (**Poster**).
- Moni Nader, Bariaa Khalil, Ahmed Abu-Zaid, A'man Inaya, **Dana Bakheet** and Nduna Dzimiri. Role of the scaffold protein striatin in regulating the excitation-contraction coupling in cardiomyocytes. Experimental Biology April, **2013**, Boston, USA. (**Poster**).
- **Bakheet Dana**. Pharmacological aspect of Anti-IgE. **Feb 26**, 1st PSMCC

Advanced Allergy/Immunology Workshop, **2013**. AlFaisailiah Hotel, Riyadh. **(Oral)**.

- **Dana Bakheet**, Mohammed Al-Najai, Nejat Mezhar, Samar El Hawwari, Editha Andres, Mary, Maie Alshahid, Paul Muiya, Brian F Meyer, and Nduna Dzimiri. Evaluation of the HNF1a gene as a risk factor for metabolic syndrome in the Saudi Population. Experimental Biology **2013**, Boston, USA. **(Poster)**
- **Bakheet D**, Tassan N and Bin Abbas Bassam. Identification of Sulfonylurea Receptor SUR1 and Potassium Inward Rectifying Receptor Kir6.2 genes mutations in Saudi patients with persistent hyperinsulinemic hypoglycemia of infancy (Nesidioblastosis). King Faisal Specialist Hospital and Research Center annual report **2012**. **(Poster)**
- Ahmed Abou-Zaid, Aman Inayah, Azhar Farouqi, Naser Ahmed, **Dana Bakheet**, Nduna Dzimiri and Moni Nader. Striatin is a novel regulator of calcium homeostasis in cardiomyocytes. Experimental Biology **April 2012**, San Diego, USA. **(Poster)**
- Ahmed Abou-Zaid, Aman Inayah, Azhar Farouqi, Naser Ahmed, **Dana Bakheet**, Nduna Dzimiri and Moni Nader. Striatin: A novel target for cardiac diseases therapy. Alfaisal University annual research day **April 2012**. (Poster)
- **D.M.Bakheet**, P. Muiya, S. ElHawari, B.F. Meyer, F. Al Mohanna, M AlShahid and N Dzimiri. A study of AGT as a susceptibility gene for hypertension in the Saudi population. Experimental Biology **April 2011**, Washington DC, USA. **(Poster)**
- **Dana Bakhit**, Mohammed Al-Najai, Mary Grace B Vigilla, Olyan Al-Boudari, Paul Muiya, Brian F Meyer, Futwan AL-Mohanna, Maie Alshahid and Nduna Dzimiri. A study of the role of gata4 gene polymorphism in myocardial infarction. Experimental Biology **2010**, Anaheim, California USA. **(Poster)**
- **Dana Bakhit**, Paul Muiya, Daisy Gueco, Brian F Meyer, Futwan Al-Mohanna, Maie Alshahid and Nduna Dzimiri. The pon1 is a susceptibility gene for hypertension. Experimental Biology 2010, Anaheim, California USA .24<sup>th</sup> April **2010**. **(Poster)**
- **Bakheet, D M**. Molecular Analysis of  $\beta$ -Thalassemia in Saudi Population. Princess Al-Jawhara Al-Ibrahim Center, Bahrain 18<sup>th</sup> May **(2009)**. **(Oral)**.
- **Bakheet Dana** and Bassam Bin Abbas. Invited speaker: Department of Pediatric Endocrinology. Topic: Genetic Aspects of Nesidioblastosis. Ground Round Sunday 27<sup>th</sup> December **2009**. KFSH&RC. **(Oral)**.
- **Bakheet D**, Tassan N and Bin Abbas Bassam. Identification of Sulfonylurea Receptor SUR1 and Potassium Inward Rectifying Receptor Kir6.2 genes mutations in Saudi patients with persistent hyperinsulinemic hypoglycemia of infancy (Nesidioblastosis). King Faisal Specialist Hospital

and Research Center annual report **2009. (Poster)**

- Bohlega S, Al Sharif L, AlKhairallah B, Al Mubarak D, **Bakheet D** and Al Tassan N. Molecular Characterization of Ataxia Oculomotor Apraxia in Saudi Arabia. 58<sup>th</sup> meeting of the American Society of Human Genetics. Philadelphia, Pennsylvania, Nov 11-15 **2008. (Poster)**
- Bohlega S, Al Sharif L, AlKhairallah B, Al Mubarak D, **Bakheet D** and Al Tassan N. Molecular analysis of APTX and SETX genes in families with ataxia with oculomotor apraxia in Saudi Arabia. 18<sup>th</sup> Meeting of the European Neurological Society. Nices, France, June 09, **2008. (Poster)**
- **Bakheet Dana.** Diagnostic and preventative strategies for sickle cell anemia and B-Thalassemia for Saudi population. April 30, **2008.** Mariott Hotel, Riyadh. **(Oral)**
- El Tahir, KEH **and Bakhit D M.** Food-Drug interactions. The 14<sup>th</sup> Saudi Conference on food and nutrition, Riyadh, King Fahad Cultural Centre, December 10-12, **2006. (Oral)**
- **Bakhit, D M.** Effect of blood pressure variations on angiotensin receptor expression in spontaneously and normotensive rats, the 9<sup>th</sup> international pharmaceutical sciences conference and exhibition, Riyadh, December 17-21, **2005. (Oral)**

#### **CHAIRPERSON AND INVITED SPEAKER**

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- **Honor invitee.** Women's Higher education symposium: Growth to competition. 13-15 January **2013.**
- **Chairperson:** 4th PSMCM International Congress. 25-27 February **2013.**
- **Invited speaker:** 4<sup>th</sup> PSMCM International Congress. Anti IgE. 26 February **2013.**
- **Chairperson:** Symposium For support of Children with Cancer. 17 October (2011). Riyadh, KSA.
- **Chairperson:** Plastic Surgery Under Microscope. King Saud University College of Science. 16-17<sup>th</sup> March **(2010).** Riyadh, KSA.
- **Invited Speaker:** Molecular Analysis of  $\beta$ -Thalassemia in Saudi Population. Princess Al-Jawhara Al-Ibrahim Center, Bahrain 18<sup>th</sup> May **(2009)**
- **Invited speaker:** Department of Pediatric Endocrinology. Topic: Genetic Aspects of Nesidioblastosis. Ground Round Sunday 27<sup>th</sup> December **(2009).** KFSH&RC
- Chairperson of International workshop of water conservation in Kingdom



of Saudi Arabia held in September **2006** at Al Khozama Hotel.

- Chairperson of social committee of the ninth international meeting of pharmaceutical sciences held in December, **2005** at King Saud University.

#### **MANUSCRIPT EDITING/ PROPOSAL REVIEW**

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- **Evaluation of antitumor effect of thymoquinone nanocarriers on rat hepatocellular carcinoma.** (KACST proposal NO LGP-35-210). Reviewed **December 2014**.
- Association of endothelial nitric oxide synthase Glu298Asp gene polymorphism in psoriasis cases with hypertension. Annals of Saudi medicine Manuscript ID ASM-2013-0929. Reviewed **March 2014**.
- **Khat effects on Platelet biology and Hemostasis as a cause for Myocardial infarction.** (KACST proposal NO ARP-34-259). Reviewed **November 2013**.
- **Delta Aminolevulinic Acid Dehydratase gene polymorphism in lead exposed workers.** Annals of Saudi Medicine (ID ASM\_211\_10). Review **December 2011**.

#### **AWARDS**

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- **Honorary** award from Princess Al-Jawhara Al-Ibrahim in recognition to scientific achievement. 18<sup>th</sup> May **2009**. Bahrain

#### **GRADUATE/ UNDERGRADUATE STUDENTS SUPERVISION**

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- MAWHIBA/ KSHRC sponsorship program Students. Overseeing 8 research groups
- Gamraa Al-Kahtani, MS student. Thesis Title: Prevalence of Aldosterone Synthase (Cyp11b2) Gene Polymorphism in Saudi Hypertensive Patients. (Secondary advisor) (2007)
- Nouf Al-Otaibi, MS student. Thesis Title: Effects of Statins and/or Advanced Glycation End Products Inhibitors on the Progression of Diabetic Nephropathy. (Secondary advisor) (Graduated 2006).

#### **SUPPORTED GRANTS**

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- The distribution of CYP2C19 polymorphisms and its association with clinical response of coronary artery disease (CAD) patients to clopidogrel in the Saudi population. KACST 2014. 1,472,000 SR.
- The possible antidepressant activity of thymoquinone in different models of experimental depression (50,000SR) (SABIC) (2006).
- The influence of calcium channel blockers on picrotoxin induced epilepsy

(35,000SR) (SABIC) (2006).

## **SERVICES**

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- Lecture presented at Alfaisal University (Awareness campaign for QPS ) on Medication Errors 29 April 2014
- Administrative Advisor for Quality patient safety Team at alfaisal University (January 2014-todate).
- Project manager of the educational campaign for the Saudi Human Project Sponsored by KACST & RC of KFSH&RC, up taken by Life Technologies October 2013- to date.
- Member of Genomic Unit at King Saud University. (2005).
- Lecture presented at King Saud University on ‘Antidepressant Drugs’. (April 2006).
- Member of interview committee for ‘Princess Jawhara Award for Ideal Student at King Saud University’. (2005).
- Member of interview committee for student’s acceptance in health and medical faculty at King Saud University. (Since 2005).
- Lecture presented at King Saud University on ‘Attention Deficit Hyperactive Children’. (October 2005).

## **CONFERENCES AND WORKSHOPS ATTENDED**

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- Arab Health January 2015. Dubai UAE.
- Intel for Science Arab World November 2014 Doha Qatar.
- Luminex xmap2013. Portugal 30-31 October.
- Experimental Biology 2013. Boston, USA.
- The European Association of Hospital Pharmacists (EAHP). Milan 21-23 March 2012.
- Saudi Heart Association 2012, Riyadh. 27-30 January 2012.
- Pursuing Optimum Patients outcome 2011, Riyadh. 25-26 October 2011.
- Experimental Biology 2011. Washington DC, USA. 9-13 April **2011**.
- Oncology Pharmacy Practice Symposium. 2-3<sup>rd</sup> November **2010** at KFSH.
- Leadership Course for the Block Directors and Coordinators. Alfaisal University. 25<sup>th</sup> May **2010**. Riyadh, KSA.
- Experimental Biology 2010. Anaheim, California, USA. 24-28 April **2010**.

- Medication Safety: A Mission For All Symposium. 13-14<sup>th</sup> April **2010**. KFSH&RC. Riyadh, KSA.
- Plastic Surgery Under Microscope. King Saud University College of Science. 16-17<sup>th</sup> March **2010**. Riyadh, KSA
- Workshop on Scientific Writing and Publication Process. 23<sup>rd</sup> February **2010**. KFSH& RC. Riyadh, KSA.
- Basic Principles of Undergraduate Medical Education Course 20-21<sup>st</sup> June **2009**, KFSH&RC. Riyadh, KSA.
- The Biological Weapons Convention Awareness (Workshop). 20-21<sup>st</sup> October **2009**. KFSH&RC. Riyadh, KSA.
- 58<sup>th</sup> Meeting of the American Society of Human Genetics. Philadelphia, Pennsylvania, Nov 11-15 **2008**.
- 7<sup>th</sup> International Meeting for Autism Research. (15-17 May, **2008**), London, UK.
- 1<sup>st</sup> Biostatistic for the Pharmaceutical Industry Course. (20-26 March, **2008**), KFSH&RC, Riyadh.
- Basic Principles of undergraduate Medical Education Course (1-5 March **2008**), KFSH&RC, Riyadh.
- The second PAN ARAB Human Genetics Conference (20-22 Nov, **2007**), Dubai, UAE.
- Affymetrix Microarray Seminar. (30 October, **2007**), KFSH&RC Riyadh.
- The 9<sup>th</sup> International Pharmaceutical Sciences Conference and Exposition and the 9<sup>th</sup> General Assembly Meeting of the Scientific Society of Colleges of Pharmacy of the Association of Arab Universities in the Arab World, (17-19 Dec, **2005**), Riyadh, Saudi Arabia
- The 7<sup>th</sup> Saudi Pharmaceutical International Conference “Pharmacy Profession towards Patient Care” (6-9 Oct. **2003**), Riyadh, Saudi Arabia.