

# DANA M. BAKHEET

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## SCIENTIFIC TRANSFORMATION | RESEARCH & ANALYSIS | PROJECT COORDINATION

*Executive Leadership / Strategic Planning & Execution / Relationship Management*

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Award-winning change driver and organized take-charge leader, offering a stellar record in scientific research and analyses, business requirement gathering, project management, governance, control, and delivery activity across transformational projects. Detail-oriented scientist, experienced in drafting corporate policies, strategies, and collaboration to support efficiency savings, structural change, and continuous improvement. Stellar record of promoting the continued and equal advancement of scientific rigor, creativity, and relevance in Saudi Arabia while serving as a global voice speaking for the value of all science and evidence-informed decision-making. Natural gift of networking, collaboration, and bridging class and culture. Growth catalyst, known for discipline, tireless work ethic, and enthusiastic embrace of new challenges to ensure sound administration. Recognized as an experienced scientific judge nationally and internationally in well established, prestigious science fairs.

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## QUALIFICATION HIGHLIGHTS

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- **Effective and accountable in high profile executive roles:** overcome complex business and scientific project challenges and also make high-stakes decisions using experience-backed judgments, strong work ethic, and irreproachable integrity. Respected as a proponent of empowerment and accountability.
- **Corporate Strategy & Development Specialist:** characterized as a visionary pioneer, strategist, and tactician. Consistent record of delivering extraordinary results in growth, revenue, operational performance, and profitability.
- **Mission-critical Result Delivery:** driven by a visceral “hand-wired” need to strategize, innovate, and disprove a negative mindset. Gifted with the vision, determination, and skills needed for high-level transformational strategies and tactics.
- **Scientific Operations & Contract Orientation:** participate in high-level operational initiatives, including infrastructure design, process reengineering, turnaround engagement, and contract negotiations. A principal scientist, leveraging solid utilization of instincts, insights, judgment, and timing.

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## SCIENTIFIC EXPERTISE

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Training & Development, Team Leadership, Policy Development, High-Impact Presentations, Contract Negotiations, Management & Supervision, Global Operations, Reports & Documentation, DNA Extraction, Bio-banking & Pharmacology, Change Management, Primer Synthesis, Budgeting & Forecasting, Resource Allocation, Personalized Medicine, Program Management, Performance Evaluation and Regulation Compliance.

## **EDUCATION**

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<b>University of Brighton, Brighton, United Kingdom</b>	<b>2003</b>
Doctor of Philosophy in Molecular Pharmacology	
<b>King Saud University, Riyadh, Saudi Arabia</b>	<b>1997</b>
Master's degree in Cardiovascular Pharmacology	
<b>King Saud University, Riyadh, Saudi Arabia</b>	<b>1988</b>
Bachelor's degree in Pharmaceutical Sciences	

## **ACADEMIC AND RESEARCH POSITIONS**

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<b>College of Medicine / Alfaisal University, Riyadh, Saudi Arabia</b>	<b>2009- Present</b>
Associate Professor	
<ul style="list-style-type: none"><li>• Appraised for active participation in community outreach; teaching and supervising both graduate and undergraduate students and providing service to the department, college, and university</li><li>• Serve as liaison for the representation of faculty and students' concerns and challenges in the classrooms, providing information on faculty and student needs while resolving a variety of problems.</li><li>• Keep abreast of developments in the medical field by attending continuing education and professional conferences</li></ul>	
<b>King Faisal Hospital and Research Center/ Department of Genetics, Riyadh, Saudi Arabia</b>	<b>2007 – Present</b>
Scientist	
<ul style="list-style-type: none"><li>• Leverage expertise in utilizing multiple DNA and RNA analysis techniques, including microarrays and next-generation sequencing.</li><li>• Support the organizational mission of preventing death and neurological crippling by early diagnostic screening techniques as applied to all neonates in the kingdom.</li><li>• Collaborate with cross-functional teams in establishing an extensive genetic database program that will collect information for the occurrence of genetic diseases nation-wide.</li></ul>	
<b>Pharmacology Department/ College of Pharmacy, King Saud University, Riyadh, Saudi Arabia</b>	<b>1993 – 2007</b>
Assistant Professor / Lecturer / Demonstrator	

## **ADMINISTRATIVE POSITIONS**

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<b>King Faisal Hospital and Research Center/ Department of Genetics, Riyadh, Saudi Arabia</b>	<b>2016– Present</b>
Head of Bio-Banking, DNA Extraction, and Oligo Synthesis Unit	
<ul style="list-style-type: none"><li>• Demonstrate mastery in maintaining consistent operations of the bio-bank, including quality control, to ensure that all biological specimens and data collections are of appropriate quality.</li><li>• Accomplished in implementing various methods and documentation for biospecimen storage, retrieval, and audit procedures to ensure accuracy and consistency while overseeing the extracting DNA from a myriad of sample types for molecular genetics testing and</li><li>• Collaborate with multiple cross-functional teams to develop a deep understanding of multi-faceted production processes, critical quality attributes for various products, and to work across the organization to develop and deploy robust, critical assays for production of optimized products</li></ul>	
<b>College of Medicine / Alfaisal University, Riyadh, Saudi Arabia</b>	<b>2011- Present</b>
Vice Dean Alfaisal University	
<ul style="list-style-type: none"><li>• Offer strategic support in facilitating faculty involvement through faculty meetings and department meetings, assign courses, prepare teaching enhancement plans, annual development plans, and progress reports.</li></ul>	

- Responsible for leading and expanding the portfolio, enrollment, and quality of graduate programs, fostering a campus-wide graduate culture, creating a climate for developing policies and procedures related to specific areas.
- Cultivate and maintain solid relationships and communications with a diverse faculty regarding curriculum development, program assessment, crisis intervention, as well as strategic planning and execution of mission-critical projects.

**King Faisal Hospital and Research Center/ Department of Genetics, Riyadh, Saudi Arabia** **2014– 2019**

Chairperson of Training and Education

- Champion the process of designing and implementing training, learning, and development projects and programs to enhance functional knowledge of a diverse student body.
- Supervised and mentored students and staff members within the Department of Genetics, facilitating their skill development, advancement, and success.
- Mastermind the efficient oversight of the genetics department in conducting basic, as well as clinically applicable research pertinent to the molecular medicine in Saudi Arabia

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

Course Director Pharmacology

- Established learning objectives and competency standards for undergraduate medical students.
- Contributed to the process of student assessment, including developing, implementing, and evaluating assessment materials and procedures. Develops and implements effective remediation processes for students identified as performing below established competency standards.
- Fostered effective relationships with a diverse, interdisciplinary team of medical educators, clinicians, and scholars to develop, implement, and evaluate curricular elements and academic resources in an innovative pharmacology curriculum.

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

Vice Head of Pharmacology Department

**RESEARCH PROJECTS**

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**Medical Genomics (Ongoing):**

- RAC # 2130029: Biomarkers of Operational Tolerance after Liver Transplantation

**Pharmacogenetics (Ongoing):**

- RAC # 2180 002: Evaluation of factors influencing anticoagulation control in Saudi patients. (Supervising a Ph.D. student)

**Quality and Patient Safety (Ongoing):**

- RAC# 2161 031: Assessing the safety culture of health care patients of Alfaisal University Medical students training at KFSH&RC/ Riyadh. ( Ready for submission for publication)

**Molecular Biology (Ongoing):**

- RAC# 2100 026: Role of the scaffold Protein Striatin in Regulating Cardiac remodeling. (Published)
- 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 a rare neurological and mitochondrial disorder): screened both known and unknown mutations using direct sequencing and specific mutation analysis techniques.

## **HONORS & AWARDS**

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- Appreciation award from the Saudi Cultural Center in Cairo, Egypt. **Dec 2019**
- Honorary “Female Arab Innovator of the Year” award by “Deewan Ahl AlQalam” during the Second Arab Women Innovators Ceremony held in Cairo, Egypt. **Dec 2019**
- Honorary “Female Arab Innovator of the Year” award by “Deewan Ahl AlQalam” during the First Arab Women Innovators Ceremony held in Beirut, Lebanon. **Mar 2019**
- Honorary award from Princess Al-Jawhara Al-Ibrahim in recognition of scientific achievement. Princess Al-Jawhra Center of Excellence in Research of Hereditary Disorders. Bahrain. **May 2009**

## **TEACHING EXPERIENCE**

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**Alfaisal University** **2009- Present**

Basic and Clinical Pharmacology Courses. Medical College.

**Educational Campaign** **2014**

Saudi Human Genome project at different School and Alfaisal University

**RC/KFSH&RC** **2011-2013**

Visiting High Schools Female Students (Lecture and Lab tours).

**Princess Nora University** **2010**

Biochemistry Courses.

**King Saud University/ Pharmacy College** **1997-2007**

Undergraduate courses

General Pharmacology I and II | Clinical Pharmacology

Postgraduate courses

Pharmacological Screening | Research Methodology and Proposal Preparation

Topics in Pharmacology and Seminar

Biostatistics | Drug-Nutrient Interactions (Allied Medical sciences)

## **GRADUATE/UNDERGRADUATE STUDNETS SUPERVISION**

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- Salha Ali Jokhab, PhD student. Thesis Title: Evaluation of factors influencing anticoagulation control in Saudi patients. (Secondary advisor) **(2018)**.
- MAWHIBA/ KSHRC sponsorship program Students.  
Oversee more than 20 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 Advanced Glycation End Products Inhibitors on the Progression of Diabetic Nephropathy. (Secondary advisor) **(2006)**.

## **PROFESSIONAL MEMBERSHIPS & AFFILIATIONS**

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**INSAR International Society for Autism Research**

**British Pharmaceutical Society**

**Saudi Pharmaceutical Society**

**Saudi Women Scientist Committee**

**Arabian Network for Women in Science and Technology**

**Rofaida Women's Health Organization**

**EDUCATIONAL INSTITUTION**

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- **Alfaisal University Online Summer Enrichment Program** 2<sup>nd</sup> - 20<sup>th</sup> August 2020  
Director
- **Alfaisal University Online Summer Enrichment Program** 14<sup>th</sup> June-2<sup>nd</sup> July 2020  
Director
- **National Character Enrichment Program/ Ministry of Education** Dec 2019-Present  
Member
- **Basic Laboratory Skills Program for College of Medicine** 2016 – Present  
Program Director (Alfaisal University)
- **Alfaisal University Research Training and Career Orientation Program** 2020  
Program Director (Alfaisal University)
- **Judging with Intel International Science and Engineering Fair (ISEF)**  
2013 May (Phoenix, Arizona).  
2014 May (Los Angeles, California).  
2015 May (Pittsburgh, PA)  
2016 May (Phoenix, Arizona)  
2017 May (Los Angeles, California)  
2018 May (Pittsburgh, PA)
- **Alfaisal University for King Abdul Aziz and his companions** 2018  
Foundation for Giftedness and Creativity (Girls Section)  
Summer Enrichment Program Director
- **KFSH and RC for King Abdul Aziz and his companions** 2014 - 2018  
Summer Enrichment Program Director | Foundation for Giftedness and Creativity(Boys and Girls Section)  
IbnSina Summer Program
- **King Abdul Aziz and his Companions Foundation for Giftedness and Creativity** 2011- 2019  
Scientific Committee Member of OLYMPIAD
- **IbnSina National College for Medical Studies and Riyadh Colleges** 2008-2009  
Part of Ministry of Education assessment group  
Evaluator

## PUBLICATIONS & ABSTRACTS

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- Moni Nader, Bariaa Khalil, Wejdan Kattuah, Nduna Dzimiri and **Dana Bakheet (2020)**. Striatin translocates to the cytosol of apoptotic cells and is proteolytically cleaved in a caspase 3-dependent manner. *Heliyon*.
- Alhamlan, F., Alqahtani, A., **Bakheet, D.**, Bohol, M., Althawadi, S., Mutabagani, M., ... & Obeid, D. (2020). Development and Validation of Two In-house, Low-Cost SARS-CoV-2 Detection Assays. *medRxiv*.
- Salha Jokhab, Farhad Kamali, Maha Al-Rasheed, **Dana Bakheet**, Peter Avery, AbdulKareem Al-Momen (2020). Assessment of the effect of VKORC1 and CYP2C9 polymorphisms on warfarin dose requirements in Saudi patients: Interim results of a large cross-sectional study. *British Journal of Clinical Pharmacology*. (Published Abstract).
- AlRasheed, M. M., AlAnzi, A., AlShalhoub, R., Abanmy, N., & **Bakheet, D.** (2019). A study of the role of DIO1 and DIO2 polymorphism in thyroid cancer and drug response to therapy in the Saudi population. *Saudi Pharmaceutical Journal*.
- Nader, M., Alsolme, E., Alotaiby, S., Alsomali, R., **Bakheet, D.**, & Dzimiri, N. (2019). SLMAP-3 is downregulated in human dilated ventricles, and its overexpression promotes cardiomyocyte response to adrenergic stimuli by increasing intracellular calcium. *Canadian Journal of physiology and pharmacology (JA)*.
- Alanazi, A. M., Alshalhoub, R., Alrasheed, M. M., Abanamy, N., **Bakheet, D.**, & Dzimiri, N. (2019). CGE19-062: The Rs1388378 Polymorphism in the Human DIO2 Gene is Associated with Decreased L-Thyroxine Dose Requirement in Thyroidectomized Patients. *Journal of the National Comprehensive Cancer Network*, 17(3.5), CGE19-062.
- Alsolme, E., Alotaibi, S., **Bakheet, D.**, & Nader, M. (2018). P2822 SLMAP expression is altered during cardiac remodeling, and it regulates cardiomyocyte response to adrenergic stimuli. *European Heart Journal*, 39(suppl\_1), ehy565-P2822.
- Nader M, Alotaibi S, Alsolme E, Khalil B, Abu-Zaid A, Alsomali R, **Bakheet D**, Dzimiri N. Cardiac striatin interacts with caveolin-3 and calmodulin in a calcium-sensitive manner and regulates cardiomyocyte spontaneous contraction rate. *Canadian Journal of physiology and pharmacology*. **2017 Aug** 19;95(10):1306-12.
- Nader, M., Alotaibi, S., Alsomale, E., **Bakheet, D.**, & Dzimiri, N. (2017). P3495 Striatin regulates the dynamics of the Caveolin-3/Calmodulin complex and modulates cardiomyocyte spontaneous contraction rate. *European Heart Journal*, 38(suppl\_1).
- Adi, A., Abbas, B. B., Hamed, M. A., Tassan, N. A., & **Bakheet, D.** (2015). Screening for Mutations in ABCC8 and KCNJ11 Genes in Saudi Persistent Hyperinsulinemic Hypoglycemia of Infancy (PHHI) Patients. *Genes*, 6(2), 206-215.
- Tayeb, H. T., **Bakheet, D. H.**, Zaza, K., Wakil, S. M., & Dzimiri, N. (2015). Genotyping of CYP 2C19 polymorphisms and its clinical validation in the ethnic Arab population. *Journal of Pharmacy and Pharmacology*, 67(7), 972-979.
- Nader, M., Khalil, B., Kvietys, P., **Bakheet, D.**, & Dzimiri, N. (2014). Striatin: a novel regulator of cardiomyocyte calcium homeostasis and contraction (864.3). *The FASEB Journal*, 28(1\_supplement), 864-3.

- Tayeb, H., **Bakheet, D.**, Ajlan, A., Al-Jedai, A., Zaza, K., & Dzimiri, N. (2014). Genotyping Of Cyp2c19 Polymorphisms And Its Potential Clinical Application In The Saudi Population. *Basic & Clinical Pharmacology & Toxicology*, 115.
- 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 saud B thalassaemia population. *Open Journal of Genetics*. **September 2013**.
- Nader, M., Khalil, B., Abu-Zaid, A., Inaya, A. M., **Bakheet, D.**, & Dzimiri, N. (2013). Role of the scaffold protein striatin in regulating the excitation-contraction coupling in cardiomyocytes.
- **Bakheet, D. M.**, Al-Najai, M., Mazher, N., Elhawwari, S., Andres, E., Alshahid, M., ... & Dzimiri, N. (2013). Evaluation of the HNF1a gene as a risk factor for metabolic syndrome in the Saudi population.
- Shinwari, J., Alshehri, T., Tahir, A. I., Al Jefri, A., AlMomen, A., **Bakheet, D.**, ... & Al Tassan, N. (2013). Variable [beta]-globin haplotypes in Saudi [beta] thalassemia population. *Open Journal of Genetics*, 3(3), 171.
- Abu-Zaid, A., Inaya, A., Farooqui, A., Ahmed, N., **Bakheet, D.**, Dzimiri, N., & Nader, M. (2012). Striatin is a novel regulator of calcium homeostasis in cardiomyocytes.
- **Bakheet, D. M.**, Muiya, P., Elhawari, S., Meyer, B., Al-Mohanna, F., Alshahid, M., & Dzimiri, N. (2011). A study of AGT as a susceptibility gene for hypertension in the Saudi population.
- **Bakhit, D. M.**, Al-Najai, M., Vigilla, M. G. B., Al-Boudari, O., Muiya, P., Meyer, B. F., ... & Dzimiri, N. (2010). The PON1 is a susceptibility gene for hypertension.
- **Bakhit, D. M.**, Muiya, P., Gueco, D., Meyer, B. F., Al-Mohanna, F., Alshahid, M., & Dzimiri, N. (2010). A study of the role of GATA4 gene polymorphism in myocardial infarction.
- Bohlega, S., Al Sharif, L., Alkhairallah, T., Al Mubarak, B., **Bakheet, D.**, & Al Tasan, N. (2008, June). Molecular analysis of APTX and SETX genes in families with ataxia with oculomotor apraxia in Saudi Arabia. In *JOURNAL OF NEUROLOGY* (Vol. 255, pp. 69-70). PO BOX 10 04 62, D-64204 DARMSTADT, GERMANY: DR DIETRICH STEINKOPFF VERLAG.
- El Tahir, K. E., & **Bakheet, D. M.** (2007). Kynurenic acid as an additional endogenous anti-aggregatory factor. *Saudi Pharmaceutical Journal*, 15(2), 135.
- El Tahir Kamal E. Hand **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. (2003, April). Effects of blood pressure variation on angiotensin receptor expression in spontaneously hypertensive and normotensive rats. In *BRITISH JOURNAL OF PHARMACOLOGY* (Vol. 138, pp. U81-U81). MACMILLAN BUILDING, 4 CRINAN ST, LONDON N1 9XW, ENGLAND: NATURE PUBLISHING GROUP.
- **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.**, El Tahir, K. E. H., Al-Sayed, M. I., El-Obeid, H. A., & Al-Rashood, K. A. (1999). Studies on the spasmodic 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, K. E. H., & **Bakheet, D. M.** (1997). Recent Advances in the Roles of Calcium Ions ( $Ca^{2+}$ ) and their Antagonism in Various Body Functions. *SAUDI PHARMACEUTICAL JOURNAL*, 5, 139-155.

## **BOOKS**

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

## **PRESENTATIONS IN CONFERENCES**

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- Moni Nader, Wejdan Kattuah, Shahd Alotaibi, Ebtahal Alsolme, and Dana Bakheet. The Smap/Strn Complex is downregulated In Human Failing Hearts, And It Regulates Cardiomyocyte Response To Adrenergic Stimuli. International Academy for Cardiovascular Sciences. **10th -14<sup>th</sup> September 2019**, Serbia. (Poster)
- Ali Syed Akhtar, Daeya Alhadid, Kishwer Kumar, Khaldoun Al-Romaih, Dana Bakheet, Dieter Clemens Broering, and Mohammad Shagrani. A diagnostic dilemma: Copper metabolism in MDR3 deficiency, causing false laboratory and clinical presentation resembling Wilson's disease. European Society for Pediatric Gastroenterology, Hepatology, and Nutrition (ESPGHAN) **5th -8th June 2019**. Glasgow, Scotland, UK. (Poster).
- Ali Syed Akhtar, Ghadi Askar, Kishwer Kumar, Khaldoun Al-Romaih, Dana Bakheet, Dieter Clemens Broering, Sarra DE Yousif, and Mohammad Shagrani. Long term disease-free survival after treating PFIC-2 recurrence with the modified protocol of Plasmapheresis, Intravenous Immunoglobulin, Rituximab, and immune suppression modification. European Society for Pediatric Gastroenterology, Hepatology, and Nutrition (ESPGHAN) **5th -8th June 2019**. Glasgow, Scotland, UK. (Poster)
- Kishwer Kumar, Walaa Elsekaily, Ali Syed Akhtar, Khaldoun Al-Romaih, Dana Bakheet, Talal Algoufi, Dieter Clemens Broering and Mohammad Shagrani. Familial Hypercholanemia presenting with severe progressive intrahepatic cholestasis, secondary to homozygous mutation of TJP2 and BAAT. European Society for Pediatric Gastroenterology, Hepatology, and Nutrition (ESPGHAN) **5th -8th June 2019**. Glasgow, Scotland, UK. (Poster)
- Maha Al Rasheed, Ashwaq Alanazi, Rawan Alshalhoub, Norah Abanmy, Dana Bakheet, and Nduna Dzimiri. The Rs1388378 Polymorphism in the Human DIO2 Gene is Associated with Decreased L-Thyroxine Dose Requirement in Thyroidectomized Patients. National Comprehensive Cancer Network (NCCN) **21-23 March 2019**. Florida, United States (Poster)
- Daeya Alhadid, Ali Syed Akhtar, Kishwer Kumar, Khaldoun Al-Romaih, Dana Bakheet, Dieter Clemens Broering, and Mohammad Shagrani. A diagnostic dilemma: Copper metabolism in MDR3 deficiency, causing



false laboratory and clinical presentation resembling Wilson's disease. Pediatric Research Day **4th February 2019**, King Faisal Specialist Hospital and Research Center, Riyadh. (Poster)

- Ghadi Askar, Ali Syed Akhtar, Kishwer Kumar, Khaldoun Al-Romaih, Dana Bakheet, Dieter Clemens Broering, Sarra DE Yousif, and Mohammad Shagrani. Long term disease-free survival after treating PFIC-2 recurrence with the modified protocol of Plasmapheresis, Intravenous Immunoglobulin, Rituximab, and immune suppression modification. Pediatric Research Day **4th February 2019**, King Faisal Specialist Hospital and Research Center, Riyadh. (Poster)
- Walaa Elsekaily, Kishwer Kumar, Ali Syed Akhtar, Khaldoun Al-Romaih, Dana Bakheet, Talal Algoufi, Dieter Clemens Broering and Mohammad Shagrani. Familial Hypercholanemia presenting with severe progressive intrahepatic cholestasis, secondary to homozygous mutation of TJP2 and BAAT. Pediatric Research Day **4th February 2019**, King Faisal Specialist Hospital and Research Center, Riyadh. (Poster)
- ShahadAlotaibi, EbtehalAlsomale, Dana Bakheet, and MoniNader. Striatin regulates  $[Ca^{2+}]_i$  in cardiomyocytes and modulates their spontaneous contraction rate. 13th KFMC Annual Research Symposium, **21-22 November 2018**. (Poster)
- Moni Nader, Shahd Al Otaibi, Ebtehal Alsolame, and Dana Bakheet. Striatin regulates the dynamics of the Caveolin-3/Calmodulin complex and modulates cardiomyocyte spontaneous contraction rate. ESC Congress **26-30 August 2017**. Barcelona, Spain (Poster).
- Ebtehal Alsolme, Shahd Al Otaibi, Rahmah al Somali, Dana Bakheetand Moni Nader. Role of the cardiac sarcolemmal membrane-associated protein (slmap) in the regulation of cardiomyocyte contraction and calcium homeostasis. Research Day at Alfaisal University, **April 2017**. (Poster)
- D Bakheet, N Muya, A Wakil, R Ram, B Meyer, G Morahan, N Dzimiri. A common variant association study for type 2 Diabetes Mellitus in ethnic Arabs. ESHG. **21-24 May 2016**. Barcelona, Spain. (Poster).
- Khaled Zaza, Amr Saeb, Dana M Bakheet, Osama Al-Jiffri, Duaa Khalaf, Mohammed Arafah, and Hamsa Tayeb. Prevalence of IL28B Gene variants among the Saudi population and a guide to interferon-alpha treatment in Saudi HCV patients. Wellcome Genome Campus (Target Validation Using Genomics and Informatics 2015). **8-10 December 2015**. Volume 23, supplement 1. Cambridge, UK. (Poster).
- Characterization of Beta-thalassemia Mutations in Saudi Patients. Tahani Al shehri , Abdullah Al Jafri, Abdulkareem Al Momen, Hayat Alafari, Abeer AlMostafa, Jameela Shinwari, Dana Bakheet, Mohammed Alanazi, arhumand Warsy, Asma Tahir, Nada Al Tassan. European Human Genetics Conference. **6-9 June 2015**. Glasgow, Scotland, UK. (Poster).
- 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. The silencing of striatin alters the association of caveolin3 with the L-type calcium channel in cardiomyocytes. Experimental Biology, **April 2015**, Boston, USA. (Poster).

- Hamsa Tayeb, Mohammed Arafa, Dana Bakheet, Duaa Khalaf, Agnieska Tarnoska, and Nduna Dzimiri. Prevalence 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. 17th World Congress of Basic and Clinical Pharmacology **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 Application 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. The pharmacological aspect of Anti-IgE. Feb 26, 1st PSMC 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 disease 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 **.24th April 2010**. (Poster)

- Bakheet, D M. Molecular Analysis of  $\beta$ -Thalassemia in Saudi Population. Princess Al-Jawhara Al-Ibrahim Center, Bahrain **18th May (2009)**. (Oral).
- Bakheet Dana and Bassam Bin Abbas. Invited speaker: Department of Pediatric Endocrinology. Topic: Genetic Aspects of Nesidioblastosis. Ground Round Sunday **27th 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. 58th 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. 18th 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 the Saudi population. **April 30, 2008**. Marriott Hotel, Riyadh. (Oral)
- El Tahir, KEH, and Bakhit D M. Food-Drug interactions. The 14th 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 9th international pharmaceutical sciences conference and exhibition, Riyadh, **December 17-21, 2005**. (Oral)

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

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- Judge: Alfaisal University's 7th Health Promotion Exhibition, Riyadh, KSA. **12<sup>th</sup> Dec 2019**
- Invited Speaker: Cambridge University Summer Program, Cambridge, UK. **22 July 2019**.
- Invited Speaker: King Abdulaziz City For Science and Technology. Journey in Research. Women in STEM Series. **22 February 2017**.
- Keynote speaker: King Fahd Medical City Annual Research Symposium. Success in Research. Riyadh, KSA. **24 25 November 2015**
- Invited speaker: King Saud University. 1st Clinical Pharmacy Internship Research Day. Ethics and Research. **21 May 2015**. Riyadh, KSA.
- Invited speaker: King Saud University. Skills of Scientific Research. Research Ethics. **30 November 2015**.Riyadh, KSA.
- Invited speaker. KFSH&RC- Jeddah. Patient safety-Endless Journey.**3-5 November 2015**. Jeddah, KSA.
- Invited Speaker: Awareness campaign for Quality and Patient Safety on Medication Errors. Alfaisal University. **29 April 2014**. Riyadh, KSA.

- Honor Invitee. Women's Higher education symposium: Growth to the competition. King Saud University. **13-15 January 2013**. Riyadh, KSA.
- Chairperson: 4th Prince Sultan Military Medical Center (PSMMC) International Congress. **25-27 February 2013**. Riyadh, KSA.
- Invited speaker: 4th PSMMC 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. **16-17th March (2010)**. Riyadh, KSA.
- Invited Speaker: Molecular Analysis of  $\beta$ -Thalassemia in Saudi Population. Princess Al-Jawhara Al-Ibrahim Center, Bahrain **18th May (2009)**
- Invited speaker: Department of Pediatric Endocrinology. Topic: Genetic Aspects of Nesidioblastosis. Ground Round Sunday **27th December (2009)**. KFSH&RC.
- Speaker: 'Antidepressant Drugs.' (**April 2006**) at King Saud University.
- Chairperson of International Workshop of Water Conservation in the Kingdom of Saudi Arabia 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.
- Speaker: on 'Attention Deficit Hyperactive Children.' **October 2005** at King Saud University.

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

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- Annals of Saudi Medicine (ASM): As Reviewer member (**2011-2017**)
- Khat effects on Platelet biology and Hemostasis as a cause for Myocardial infarction. (KACST proposal NO ARP-34-259). (**Reviewed November 2013**)

#### **SUPPORTED GRANTS**

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- The prognostic impact of human papillomavirus genotypes on cervical dysplasia and cancer in Saudi Arabia. Retrospective study. GlaxoSmithKline (GSK) Fund CMD/753/35. 137,000 SR.
- The potential role for interleukin-28B gene polymorphisms in predicts hepatitis C treatment-induced viral clearance in infected Saudi patients. King Abdulaziz City for Science and Technology (KACST), 13-MED1171-20. 1,472,000 SR. (**2014**)
- 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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- Providing the following services to all RC

- 1) DNA Extraction
  - 2) Primer Synthesis
  - 3) Bio-Banking
- Starting a laboratory at Alfaisal University, Riyadh, to teach the students the basic technical skills needed for basic research through a program called the Basic Laboratory Skills Program. **(2016)**
  - Branding for Research Center/ King Faisal Specialist Hospital: Selecting pioneer projects and manuscripts using Research Center (RC) database in preparing RC Booth nationally and internationally to orient the department of RC in the minds of customers and create a perception of what Research Center stands for. 1st Middle East Molecular Biology Congress & Exhibition (MEMBS), Dubai (2014), Prince Sultan University (2015), King Saud University (KSU), MEMS Istanbul-Turkey (2015), European Society of Human Genetics (ESHG), Glasgow-UK (2015). Saudi Lab Expo, Riyadh **(2015)**.
  - Administrative Advisor for Quality patient safety Team at Alfaisal University **(2014-Present)**.
  - Project manager of the educational campaign for the Saudi Human Project
  - Sponsored by KACST & RC of KFSH&RC, uptaken by Life Technologies **(2013- Present)**
  - Member of Genomic Unit at King Saud University. **(2005)**.
  - Member of the interview committee for 'Princess Jawhara Award for Ideal Student at King Saud University.' **(2005)**.
  - Member of the interview committee for student's acceptance in health and medical faculty at King Saud University. **(Since 2005)**.

## **CONFERENCES AND WORKSHOPS ATTENDED**

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- European Society of Human Genetics, Barcelona. Spain. ( **2016**)
- Target Validation Using Genomics and Informatics, Wellcome Genome Campus. UK. **(2015)**
- European Society of Human Genetics Glasgow-UK. **(2015)**
- Arab Health, Dubai UAE. **(2015)**
- Intel ISEF Intel International Science and Engineering May 10-15, Pittsburgh USA. **(2015)**
- Intel for Science Arab World, Doha Qatar. **(2014)**
- Intel ISEF Intel International Science and Engineering, California, USA. **(2014)**
- Luminex xmap2013. Portugal **30-31 October**.
- Experimental Biology, **2013**. Boston, USA.
- Intel ISEF Intel International Science and Engineering, Phoenix, USA. 2013.
- 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. **2-3rd November 2010** at KFSH.

- Leadership Course for the Block Directors and Coordinators. Alfaisal University. **25th May 2010**. Riyadh, KSA.
- Experimental Biology 2010. Anaheim, California, USA. **24-28 April 2010**.
- Medication Safety: A Mission for All Symposium. **13-14th April 2010**. KFSH&RC. Riyadh, KSA.
- Plastic Surgery under Microscope. King Saud University College of Science. **16-17th March 2010**. Riyadh, KSA
- Workshop on Scientific Writing and Publication Process. **23rd February 2010**. KFSH& RC. Riyadh, KSA.
- Basic Principles of Undergraduate Medical Education Course **20-21st June 2009**, KFSH&RC. Riyadh, KSA.
- The Biological Weapons Convention Awareness (Workshop). **20-21st October 2009**. KFSH&RC. Riyadh, KSA.
- 58th Meeting of the American Society of Human Genetics. Philadelphia, Pennsylvania, **Nov 11-15 2008**.
- 7th International Meeting for Autism Research. **(15-17 May 2008)**, London, UK.
- 1st Biostatistics 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 9th International Pharmaceutical Sciences Conference and Exposition and the 9th 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 7th Saudi Pharmaceutical International Conference “Pharmacy Profession towards Patient Care” Riyadh, Saudi Arabia. **(6-9 Oct. 2003)**