

Amal Aldarwesh

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Education

1. Ph.D. Degree in Pharmacy, University of East Anglia (UEA), School of Pharmacy, Department of Pharmaceutical Cell Biology, Norwich, UK (April 2012- April 2016).
2. Master's Degree in Bioethics Program, King Abdullah International Medical Research Centre at King Saud bin Abdulaziz University for Health Science (March 2010-October 2012).
3. Master's Degree of Pharmacology, College of Pharmacy, King Saud University (June 2009).
4. Bachelor Degree of Pharmaceutical Sciences (B.Pharm.), College of Pharmacy, King Saud University (February 2005).
5. Research Ethics Courses (distance learning), Clarkson University, New York, US.

Professional Experience and Positions

- Assistant Professor, College of Applied medical Sciences, Department of optometry, KSU. Oct 2016-Now
- Associate Tutor in School of Pharmacy, University of East Anglia (UEA), Norwich, UK Oct 2012-2014
- Lecturer, College of Applied medical Sciences, Department of optometry, KSU. May 2011-Oct 2016
- Part-time lecturer (volunteer) in Applied medical College, Department of optometry March 2010-Jan 2011
- Researcher in King Saud University, College of Pharmacy, Department of Pharmacology 2008-2010
- Research Technical Assistant in King Faisal special Hospital, Biological and Medical department, Cell biology lab 30th Jun- 26th Sept. 2007
- Pharmacist in the Drug Information Center, College of pharmacy, King Saud University. April-May 2005
- Trainee, King Fahad Hospital of the University (KFHU), Al-Khobar, Saudi Arabia. 18th Sep 2004 -11th Jan 2005

Conference Scholarship and Awards

1. Selected as a mentee for the 2016 ARVO Global Mentorship pilot program, ARVO, USA 29th January 2016-till now
2. Certificate of Appreciation from Embassy of the Kingdom of Saudi Arabia in United Kingdom. 29th September 2015
3. Best Poster Award for Pharmacology, School of Pharmacy Research Colloquium 2015, School of School of Pharmacy, University of East Anglia (UEA), Norwich, UK. 18th September 2015
4. Scientific Distinction Award for Students from Saudi Cultural Bureau in London, United Kingdom. 28th May 2015
5. Communicator ribbon for hot topic abstract in the Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO), Denver, USA. 3-7th May 2015
6. Selected to attend the “64th Lindau Nobel Prize Laureates Meeting” Lindau, Germany. 29th June-4th July 2014

Teaching Training

- Using Social Network in Education, King Saud University, Riyadh, Saudi Arabia (6 hours training). 24th Nov 2016
- Effective Teaching: Hands-on Training Workshop, College of Medicine, King Saud University, Riyadh, Saudi Arabia (6 hours training) 2nd Oct 2016
- Safe and Comfortable Learning Context. King Saud University, Riyadh, Saudi Arabia (3 hours training).
- 21st century employability skills and university teaching”. King Saud University, Riyadh, Saudi Arabia (6 hours training). 29th Sep 2016
- Creating a Course that Meets Student Needs: Start with the End in Mind. King Saud University, Riyadh, Saudi Arabia (6 hours training). 25th Sep 2016
- Fundamentals of Learning Management System, King Saud University (12 training hours) 28-30th Aug2016
- Ethics Teacher Training Course (ETTC) organized by the UNESCO in Beirut-Lebanon. 8-11th June 2015

- Developing teaching skills certificate, University of East Anglia, series of workshops. 2nd May- 3rd June 2014
- Using testing, Grading and feedback to enhance student learning, King Saud University, Riyadh, Saudi Arabia. 13 September 2011
- “Motivation Students To Learn Workshop”, King Saud University, Riyadh, Saudi Arabia. 21 May 2008
- “Class Assessment Techniques Workshop”, King Saud University, Riyadh, Saudi Arabia. 20 May 2008
- “Planning of Effective University Teaching”, King Saud University, Riyadh, Saudi Arabia. 17-19 May 2008

Research Training and Workshops

- Signaling Networks: From Data to Modelling, The Genome Analysis Centre (TGAC), Norwich Research Park, Norwich, UK 25th-29th Jan 2016
- Practical laboratory training in molecular biology and protein Expression Certificate, School of Life Sciences, University of Warwick, UK 29th June- 10th July 2015
- The Publication Process and Ethics, University of East Anglia, Norwich, UK June 2013
- Experimental and Quasi-Experimental Research Methods, University of East Anglia, Norwich, UK April 2013
- Managing bibliographies with Endnote, University of East Anglia, Norwich, UK March 2013
- Data protection, University of East Anglia, Norwich, UK March 2013
- Real time PCR, University of East Anglia, Norwich, UK 2013
- Genomes and advanced sequencing technologies, University of East Anglia, Norwich, UK 30th January 2013
- SPSS (intermediate level), University of East Anglia, Norwich, UK January 2013
- Bioimaging, University of East Anglia, Norwich, UK January 2013

- Creating effective poster presentations, University of East Anglia, Norwich, UK 2nd July 2012
- Quantitative research methods (Empirical and statistical methods), University of East Anglia, Norwich, UK 10th May 2012

Research Skills

Experienced in different laboratory skills including:

- Cell Culture
- Tissue culture
- Western Blot
- RNA isolation
- Real-time PCR
- Immunohistochemistry
- Experienced in animal handling, administration of drugs to animals by different routes (oral, intraperitoneal, subcutaneous, intravenous and intramuscular) and withdrawal of blood from laboratory animals.

Scientific Article

1. Andrew Osborne; **Amal Aldarwesh**; Jeremy Rhodes; Peter Sidaway; David Broadway; Claire Everitt; Julie Sanderson. "Hydrostatic Pressure does not cause detectable changes to Survival in Human Retinal Ganglion Cells". PLoS One. 2015 Jan 30;10(1):e0115591.
2. **Amal Q. Aldarwesh**. Perception of research ethics amongst Saudi postgraduate students: compararsion between home and abroad academic enviroment. *Oxford research journal* 2013; 3 (3): 37-49
3. Amal J. Fatani, Amany A.E. Ahmed, Rabab M. Abdel-Halim, Mary Martin, Nuzha A. Abdoon, **Amal Q. Darweesh**. Comparative study between the protective effects of Saudi and Egyptian antivenoms, alone or in combination with ion channel modulators, against deleterious actions of *Leiurus quinquestriatus* scorpion venom. *Toxicon* 2010; 55(4): 773-786
4. Amal J. Fatani, **Amal Q. Darweesh**, Lubna Rizwan, Abdulaziz M. Aleisa, Othman A. Al-Shabanah, Mohamed M. Sayed-Ahmed. Carnitine Deficiency Aggravates Cyclophosphamide-Induced cardiotoxicity in Rats. *Chemotherapy* 2010; 56:71-81

5. Sayed-Ahmed, MM, **Darweesh, AQ**, Fatani, AF. Carnitine Deficiency and Oxidative Stress Provoke Cardiotoxicity in an Ifosfamide- Induced Fanconi Syndrome in Rat Model. *Oxid Med Cell Longev*. 2010 ;3(4):266-274

Scientific Posters

- **Amal Aldarwesh**, David C Broadway, Julie Sanderson, High Glucose Increases Vascular Endothelial Growth Factor Secretion in Human Müller Cells (MIO-M1) and Human Organotypic Retinal Cultures (HORCs), ARVO, Seattle, USA (7-11th May 2016).
- **Amal Aldarwesh**, David C Broadway, Julie Sanderson, Effects of Glucose Deprivation on Retinal Ganglion Cell Survival in Human Organotypic Retinal Cultures, ARVO, Denver, USA (3-7th May 2015).
- **Amal Aldarwesh**, Julie Sanderson. “Effect of Glucose on Growth factor expression and survival of human Retinal Müller Cells”. Pharmacy research day, John Innes Centre, Norwich, UK, (19th June 2014).
- **Amal Q. Darweesh**, Amal J. Fatani, Mohamed M. Sayed-Ahmed, Lubna Rizwan. “Increased Urinary Excretion of Carnitine During Ifosfamide Therapy: Possible Risk of Cardiotoxicity”. The 8th Saudi International Pharmaceutical Conference & Exhibition, Riyadh. Saudi Arabia, (26-28 April 2010).
- Amal J. Fatani, **Amal Q. Darweesh**, Mohamed M. Sayed-Ahmed, Lubna Rizwan. Possible Role of Propionyl-L-Carnitine in the Prevention of Oxazaphosphorines Induced- Cardiotoxicity in Normal and Carnitine Depleted Rats AACP, USA, (8-12 Nov,2009).
- Amal J. Fatani, Amany A.E. Ahmed, Rabab M. Abdel-Halim, Mary Martin Nuzha A. Abdoon, **Amal Q. Darweesh**. “Comparative Study Between The Protective Effects₂ of Saudi and Egyptian Antivenin Either Alone or in Combination With Certain Ion Channel Modulators, Against Actions of *Leiurus Quinquestriatus Quinquestriatus* Scorpion Venom”. 3rd International Conference on Natural Toxins. Cairo, Egypt, (16 December 2008)

Teaching Experience

March 2010-February 2012: Teaching ocular pharmacology course, anatomy, ocular disease for the Optometry Students at Applied Medical College, King Saud University:

- 343 OPTO (Ocular pharmacology)
- 344 OPTO (Ocular disease I)
- 241 OPTO (Ocular anatomy and physiology)

Sep 2016-till now: Teaching pharmacology courses to the following programs at the Colleges of Applied Medical Sciences (CAMS), King Saud University:

Doctor of Optometry Program: Ocular Pharmacology (OPTO 410)

Dental Hygiene Program: Pharmacology for dental hygienist (DEH 345)

Sep-Jan 2016: Teaching Research Methodology to second year Master's students in the optometry department.

Certificate of Appreciation

- 1- Certificate of appreciation from College of Applied Medical Sciences for efforts in having the German accreditation from Accreditation Agency for Study Program in Health and Social Sciences (AHPGS) for Optometry Program. Riyadh, Saudi Arabia (2013).
- 2- Certificate of appreciation from the "National Olympiad for Scientific Creativity" for participation in the judging committee for scientific track competition. Riyadh, Saudi Arabia (2012).
- 3- Certificate of appreciation for work distinction from the Supervisor of the Female Medical Sciences Colleges (2009).
- 4- Certificate of appreciation from the vice dean of college of pharmacy for the participation in the transportation and movement of the Pharmacy College to the new location in the medical college campus (2007).
- 5- Certificate of appreciation for participation in "safety in our daily life" that was held as an activity of the scientific committee meeting on 5th April 2005.

Presentations

- Moderator of Stem Cells Debate Session, King Abdullah International Research Centre, King Saud bin Abdulaziz for Health Medical Sciences (29 October 2011).
- Assessing the Researchers Awareness and Understanding of Animal Rights. King Abdullah International Research Centre, King Saud bin Abdulaziz for Health Medical Sciences (10 January 2011).

- Fat discrimination. King Abdullah International Research Centre, King Saud bin Abdulaziz for Health Medical Sciences (23 December 2010).
- Students' vulnerability. King Abdullah International Research Centre, King Saud bin Abdulaziz for Health Medical Sciences (15 December 2010).
- Exploring the limits of Patients Autonomy. King Abdullah International Research Centre, King Saud bin Abdulaziz for Health Medical Sciences. (3 October 2010).
- The Ethical Considerations of Using Cladribine in Clinical Trials for the Treatment of Multiple Sclerosis Patients. King Abdullah International Research Centre, King Saud bin Abdulaziz for Health Medical Sciences. (31 November 2010).
- Having a Child To Save a Child (survivor sibling). King Abdullah International Research Centre, King Saud bin Abdulaziz for Health Medical Sciences. (22 June 2010).
- Abortion in Islam: Ethics and Principles. King Abdullah International Research Centre, King Saud bin Abdulaziz for Health Medical Sciences (30 March 2010).
- Possible Mechanism of Oxazaphosphorines Induced Cardiotoxicity in Normal and Carnitine Depleted Rats. Centre of Female Scientific and Medical Colleges. (21 July 2009).
- Mechanism of Oxazaphosphorines Induced Cardiotoxicity in Normal and Carnitine Depleted Rats, college of medicine, King Saud University (7 April 2008).
- Carvedilol as calcium channel blocker and antioxidants in the prevention of apoptosis in doxorubicin induced cardiotoxicity in rats, college of pharmacy, King Saud University (December 2006)
- Apoptosis, college of pharmacy, King Saud University (5 June 2006)
- Pharmacogenomics, college of pharmacy, King Saud University 2006.
- Ketogenic Diet, College of Pharmacy, King Saud University, 2005.
- Medication King Fahad Hospital of the University (KFHU), Al-Khobar, Saudi Arabia, 2004.
- Suicidal Insulin Overdose in Type 1 Diabetes Mellitus (case discussion), college of Pharmacy, King Saud University, 2004.
- Miglitol (drug Profile), college of Pharmacy, King Saud University, 2002.

Conferences (Attendance)

- Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO), 7-11th May 2015, Seattle, USA
- Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO), 3-7th May 2015, Denver, USA

- 64th Lindau Laureate Meeting in Physiology and Medicine, Lindau, Germany, (29th June-4th July 2014)
- Pharmacy research day, John Innes Centre, Norwich, UK, (19th June 2014).
- “2nd Annual International Conference on Stem Cells and Regenerative Medicine”. Riyadh, Saudi Arabia, (13-15 Nov. 2011).
- The 8th Saudi International Pharmaceutical Conference & Exhibition, Riyadh. Saudi Arabia, (26-28 April 2010).
- “1st international Conference in Biotechnology”, King Fahad Cultural Center, Riyadh, Saudi Arabia, (16-18 Feb 2009).
- “Healthcare Associate Infections, 2nd BioMerieux in touch conference”, Riyadh marriott Hotel, Saudi Arabia, (21 May 2008).
- “Riyadh Economic Forum 2007” Riyadh, Saudi Arabia, (2-3 Dec. 2007).

Symposium and Workshops (Attendance)

- “Positive Influencing Skills Workshop”, British Counsel, Riyadh, Saudi Arabia, (28th March 2017).
- 42nd Seminar: “Challenges in Secondary Glaucoma and Special Glaucoma Cases”, College of Medicine, King Khalid University Hospital, Riyadh, Saudi Arabia, (25th Oct 2016).
- 35th Seminar on Neuro-Ophthalmology in the 21th Century, College of Medicine, King Khalid University Hospital, Riyadh, Saudi Arabia, (16 May 2011).
- “3rd Pharmacist Day Symposium”, Security Forces Hospital, Riyadh, Saudi Arabia, (14 Jan 2009).
- “4th International Nutrition symposium”, Riyadh military Hospital, Saudi Arabia, (26-27 May 2008).
- “16th Annual Saudi Neuroscience Symposium”, Intercontinental Hotel, Riyadh, Saudi Arabia, (21-24 Jan, 2008).
- “The Forth international Cardiac Congress of Saud Al-Babtain Cardiac Center”, Alsharqia Chamber, Al-Khobar/Dammam, Saudi Arabia (26-29 Dec, 2007).

- The 9th International Pharmaceutical Sciences Conference and Exposition, 17-21 December, 2005, Riyadh, Saudi Arabia.
- “Heart Failure Management from Cell to Total Artificial Heart”, King Faisal Specialist Hospital and Research Centre, Riyadh, Saudi Arabia, (13-15 Nov. 2007).
- “The First King Faisal Specialist Hospital and Research Center Geriatric Symposium” Riyadh, Saudi Arabia, (11-13 April 2006).
- 17th Scientific Session of the Saudi Heart Association, Le Gulf Meridien Hotel, Al-Khobar, Saudi Arabia, (31Jan - 2 Feb. 2006).Workshops (Attendance)
- “Training program for reviewers in scientific research”, Giftedness program, King Abdulaziz & his Companions Foundation for Giftedness & Creativity. Riyadh (22/11/1432h).
- “Examination’s Quality”, King Saud University, CAMS, Riyadh, Saudi Arabia. (17-18/5/2011).
- “Evidence-Based Health Care: Quick & Easy Workshop”. Held in College of Medicine, King Saud University, Riyadh, Saudi Arabia. (25th march 2009).
- “Development of communication Skills in dialogue Workshop" held by king Abdul Aziz Center for National Dialogue, King Saud University, Riyadh, Saudi Arabia, (31 May-1 June 2008).
- "Theoretical and Practical training in High Performance Liquid chromatography", College of science, King Saud University, Riyadh, Saudi Arabia, (10-11 May 2008).
- "Proteomics"." Principles of Protein Separation & Purification with Clinical Correlation", College of medicine, King Saud University, Riyadh, Saudi Arabia, (16-19 March 2008).
- “Forth Annual AIDS Workshop”, King Faisal Specialist Hospital and Research Centre, Riyadh, Saudi Arabia, (1 Dec. 2007).
- “GCC Evidence Based Clinical Practice Workshop” king saud University, Riyadh, Saudi Arabia, (4-8 Nov.2006)
- “Parenteral and Enteral Workshop: Clinical Situations”, King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia, (14-15 Feb. 2006).

Courses (Attendance)

- Medical Humanities Italian Perspective Course, Padua, Italy, 6-11 September 2015
- “Cloning and genetic modification of animals”. KACST (7 Oct 2009).
- “Intensive Course of Patient Education”, King Abdulaziz Historical Centre lecture Auditorium, Riyadh, Saudi Arabia, (4 Feb. 2008)
- “3rd Annual Antimicrobial Review course”, King Faisal Specialist Hospital and Research Centre, Riyadh, Saudi Arabia, (21-22 Nov 2007).
- Basic ECG course “making sense of ECG in clinical practice”, Le Gulf Meridien Hotel, Al-Khobar, Saudi Arabia, (30 Jan. 2006).

Extracurricular Activities

- Medical Representative for SPIMACO in the Regional Conference on Health Economics “Diabetes Economics”, Riyadh, Saudi Arabia (3-5 Nov 2007).
- Participation in issuing the monthly newsletter of Drug Information Center (April-May, 2005).
- Participation in organization of the “Safety in our daily life” workshop held by the Scientific Assembly Committee, College of Pharmacy, King Saud University (April, 2005).
- Preparation of the Guide to Postgraduate Studies in College of Pharmacy (Women’s section), King Saud University (September, 2005).
- Participation in organization and management of the women’s activities in the 9th International Pharmaceutical Sciences Conference and Exposition, 17-21 December, 2005, Riyadh, Saudi Arabia.

Volunteer Experience

Supervisor of the pharmacy school computer lab (1425 -1426)

Computer Skills

- Highly experienced in the use of MS-Office software and Windows Operating System.
- Highly experienced in utilization of Internet search engines and scientific databases.

Languages

- Arabic

- English

Personal interest and Hobbies

- Reading
- Coloring and Painting
- Travelling
- Professional Diploma qualification in manicure and luxury treatment (5th Oct 2015)
- Acupuncture workshop, Norwich Acupuncture Clinic, Norwich, UK (21 November 2015).
- Palmistry workshops with Johnny Fincham, Norwich, UK (7th & 28th November 2015)