



Dania Abdulrahman A. Hussein

Assistant Professor

Personal Data

Nationality | Saudi

Department | Pharmacology, College of Clinical Pharmacy

Official IAU Email | dahusseini@iau.edu.sa

Language Proficiency

Language	Read	Write	Speak
Arabic	√	√	√
English	√	√	√

Academic Qualifications:

Date	Academic Degree	Place of Issue	Address
2015	Doctor of Philosophy (Ph.D.) in Pharmaceutical Sciences	King's College London Institute of Pharmaceutical Science (Pharmacology and Therapeutics group) and the Randal Division of Cell and Molecular Biophysics. London, United Kingdom.	London United Kingdom
2009	Master of Science in Drug Discovery Skills	King's College University London 2009, School of Medicine and Institute of Pharmaceutical Sciences. London, United Kingdom.	London United Kingdom
2008	BSc. Pharmacy (Specialty: Clinical Pharmacy)	King Saud University, College of Pharmacy	Riyadh, Saudi Arabia

PhD, Master or Fellowship Research Title:

PhD thesis	Investigating the interaction between GTP cyclohydrolase 1 and its feedback regulatory protein using biophysical and pharmacological techniques.
Master thesis	Analysis of P2Y14 Pharmacology, the development and validation of a high throughput assay to identify novel compounds for pain relief.



Professional Record:

Job Rank	Department	Place and Address of Work	From	Date
Assistant Professor	Pharmacology	College of Clinical Pharmacy, Imam Abdulrahman Bin Faisal University	2015	Present
Multidisciplinary PhD. Studentship	Pharmacology and Therapeutics Research Group	Institute of Pharmaceutical Sciences and the Randall Division, King's College London, United Kingdom	2010	2015
Scientist	Biological Reagent and Assay Development Department GSK R&D plc.	GlaxoSmithKline plc. Research and Development, Stevenage, United Kingdom	March 2009	August 2009
Research Assistant	Cell Biology and Cardiovascular Research Unit and KFSHRC	King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia	February 2008	August 2008
Clinical training: Hospital Pharmacist and Clinical Clerkship	Hospital Inpatient and Outpatient Departments	Riyadh Military Hospital Saudi Arabia King Khaled university hospital Saudi Arabia	January 2007	February 2008
Research Trainee	Epidemiology and biostatistics research unit, KFSHRC	King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia	June 2005	September 2005



Scientific Achievements:

#	PEER-REVIEWED PUBLICATIONS
1	Heikal, Lamia & Starr, Anna & Hussein, Dania & Prieto-Lloret, Jesus & Aaronson, Philip & Dailey, Lea & Nandi, Manasi. L-phenylalanine restores vascular function in spontaneously hypertensive rats through activation of the GCH1-GFRP complex. JACC: BASIC TO TRANSLATIONAL SCIENCE, 2018 Jun; 3(3): 366–377.
2	Dania Hussein, Anna Starr, Lamia Heikel, Paul R. Brown, Brian J. Sutton, James M. McDonnell, Manasi Nandi. Biophysical and in vivo investigation of GTP cyclohydrolase 1 and its feedback regulatory protein. Br J Pharmacol. 2015 Aug;172(16):4146-57
3	Starr, A., Hussein, D. & Nandi, M. The regulation of vascular tetrahydrobiopterin bioavailability. Vascul Pharmacol. Mar 2013;58(3):219-30.
4	D Hussein, A Starr, L Heikal, M Nandi, Investigating tetrahydrobiopterin biosynthesis. Proceedings of The Physiological Society. 2013
5	L Heikal, A Starr, D Hussein, J Prieto-Lloret, P Aaronson, L Dailey, M Nandi..Investigating the effects of L-phenylalanine on the endogenous tetrahydrobiopterin regulatory system in spontaneously hypertensive rats. 37th Congress of IUPS (Birmingham, UK) (2013) Proc 37th IUPS, PCD396.
6	Hussein, D., Starr, A., Heikal, L. & Nandi, M. Investigating the interaction between GTP-cyclohydrolase1 and its feedback regulatory protein. NITRIC OXIDE. Jul 2012; 27, p. S29-S30.
7	Hussein, D., Starr, A. & Nandi, M. Investigation of GTP-cyclohydrolase 1 and its feedback regulatory protein in tetrahydrobiopterin bioavailability. Vascul Pharmacol.. 2012: 56, 5-6, p. 353-353.

#	ABSTRACTS & POSTERS
1	D Hussein, A Starr, L Heikal, M Nandi, Investigating tetrahydrobiopterin biosynthesis. Proceedings of The Physiological Society. 2013
2	L Heikal, A Starr, D Hussein, J Prieto-Lloret, P Aaronson, L Dailey, M Nandi..Investigating the effects of L-phenylalanine on the endogenous tetrahydrobiopterin regulatory system in spontaneously hypertensive rats. 37th Congress of IUPS (Birmingham, UK) (2013) Proc 37th IUPS, PCD396.
3	Hussein, D., Starr, A., Heikal, L. & Nandi, M. Investigating the interaction between GTP-cyclohydrolase1 and its feedback regulatory protein. NITRIC OXIDE. Jul 2012; 27, p. S29-S30.
4	Hussein, D., Starr, A. & Nandi, M. Investigation of GTP-cyclohydrolase 1 and its feedback regulatory protein in tetrahydrobiopterin bioavailability. Vascul Pharmacol.. 2012: 56, 5-6, p. 353-353.

Awards:

- Best Oral Presentation: Institute of Pharmaceutical Sciences (IPS) Post-graduate Symposium 2013. KCL, U.K.
- Awarded the College of Pharmacy's Student of the year Award for the year 2006-2007.

Membership of Scientific and Professional Societies and Organizations

- Member of European Vascular Biology Organization
- Member of the British Heart Foundation
- Member of the Saudi Clinical Pharmacy Club
- Active volunteer and member of the Saudi Children Cancer Society
- Active volunteer member with the Saudi Orphan Society



Teaching Activities:

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Pharmacology 1	PHTX 301	4 Credit hours
2	Pharmacology 2	PHTX 307	4 Credit hours
3	Pharmacology and Toxicology for Public Health	PUBH 212	3 Credit hours
4	Year 2 Pharmacology (College of Medicine)	MED 201	1 Credit hours
5	Year 3 Pharmacology (College of Medicine)	MED 301	1 Credit hours

Student Academic Supervision and Mentoring

#	Level	Number of Students	From	To
1	2	13	September 1 st	present

Research Supervision

#	Degree Type	Title	Institution	Date
1	PharmD	Short courses versus long (standard) courses of antibiotics used in urinary tract infections, A review study	COCP, IAU	2018-2019
2	PharmD	Effect of antioxidant therapy in reversing endothelial dysfunction in cardiovascular disease	COCP, IAU	2018-2019
3	PharmD	Tetrahydrobiopterin and neurodegenerative disease	COCP, IAU	2017-2018

Administrative Responsibilities, Committee and Community Service

#	From	To	Position	Organization
1	2016	Present	College Representative for Community Services (Female)	College of Clinical Pharmacy, IAU
2	2016	Present	Member of Community Services Unit	College of Clinical Pharmacy, IAU
3	2019	Present	Member of the Examination and Assessment Quality Unit	College of Clinical Pharmacy, IAU

Volunteer Work

#	From	To	Type of Volunteer	Organization
1	2015	2018	Medication use counselling, and awareness campaigns delivered to public, in association with Al-Wid Charity Groups based in Khobar and Dammam in the Eastern Province of K.S.A. (2015-2018).	COCP, IAU and Al-Wid Charity Group, Khobar, Saudi Arabia
2	2003	2013	Active Volunteer of the Ensan Saudi Orphan Society	Ensan Saudi Orphan Support Society Riyadh, Saudi Arabia
3	2003	2012	Active Volunteer of Saudi Children Cancer Society	Saudi Children Cancer Society, Riyadh Saudi Arabia
4	2003	2008	Poison Awareness and Management Campaign	Armed Forces Hospital, Riyadh, Saudi Arabia

Last Update

17/09/2020