ASMA SAMI ALONAZI

Biography

ASMA ALONAZI, graduated from King Saud University (KSU) with bachelor's degree in Pharmaceutical Sciences (BSc Pharm.) in 2007. Next, she joined department of Pharmacology and Toxicology in the College of Pharmacy at KSU as teaching assistant. In 2013, she earned master's degree in Pharmacology (MSc), then she promoted to a lecturer in the same department. In 2015, ASMA joined Department of Cell Physiology and Pharmacology at University of Leicester in United Kingdom to pursue her PhD under Dr Jonathon M. Willets supervision. On November 2019, ASMA award Doctor of Philosophy degree in Cell Physiology and Pharmacology (PhD) from University of Leicester in UK. Currently, Dr ALONAZI came back, she working as Assistant Professor in Department of Pharmacology and Toxicology in College of Pharmacy at KSU. Her primary research field is molecular pharmacology of GPCRs including their function, regulation, classical and non-classical signalling pathways. Furthermore, her secondary field is cardiovascular pharmacology, particularly, hypertensive vascular remodelling.

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INTERESTS

Molecular Pharmacology of GPCRs. Particularly, G protein-coupled receptors kinases (GRKs) and β-arrestins. Including identifying the G protein dependent (classical) and G protein independent (non-classical) signalling pathways. The major impact of this research is understanding the molecular basis of disease pathology, developing new molecular diagnostics and identifying new molecular and cellular therapeutics targets.

EDUCATION

Doctor of Philosophy in Cell Physiology and Pharmacology (PhD)

University of Leicester, United Kingdom, Leicester.

09/2015 – 01/2020 *LEICESTER, United Kingdom*

Courses

- Thesis [Investigating The Roles That G Protein-Coupled Receptor Kinase 2 Plays in Arterial Smooth Muscle Proliferation]

Master's Degree in Pharmacology (MSc)

King Saud University, Saudi Arabia, Riyadh.

08/2008 – 07/2013

Courses

- Thesis [Investigation of the Inhibitory Effect of Ruboxistaurin on the Activity of smad and GRAP Proteins in Diabetic Nephropathy Rats Model].

Bachelor's Degree in Pharmaceutical Sciences (BSc Pharm.)

King Saud University, Saudi Arabia, Riyadh.

09/2001 – 02/2007

Courses

- College of Pharmacy/ General Pharmaceutical Science.

WORK EXPERIENCE

Assistant Professor

Department of Pharmacology and Toxicology, College of Pharmacy, King Saud University.

02/2020 – Present *Riyadh, Saudi Arabia*

Lecturer

Department of Pharmacology and Toxicology, College of Pharmacy, King Saud University.

10/2017 – 02/2020 *Riyadh, Saudi Arabia*

Teaching Assistant

Department of Pharmacology and Toxicology, College of Pharmacy, King Saud University.

09/2007 – 10/2017 *Riyadh, Saudi Arabia*

PhD Researcher

Department of Cell Physiology and Pharmacology, University of Leicester

09/2015 – 01/2020 *Leicester, United Kingdom*

PUBLICATIONS

Research Paper

A novel form of glycolytic metabolism-dependent cardioprotection revealed by PKCα and β inhibition.

Author(s)

Sean Brennan, Shen Chen, Samir Makwana, Christopher A. Martin, Mark W. Sims, Asma S.A. Alonazi, Jonathan M Willets, Iain B. Squire, Richard D. Rainbow.

June 2019

Journal of Physiology, DOI: 10.1113/JP278332.

Research Paper

Ruboxistaurin attenuates diabetic nephropathy via modulation of TGF-β1/Smad and GRAP pathways. Research paper published in

Author(s)

Al-Onazi AS, Al-Rasheed NM, Attia HA, Al-Rasheed NM, Ahmed RM, Al-Amin MA, Poizat C.

February 2016

The Journal of Pharmacy and Pharmacology, DOI: 10.1111/jphp.12504. •

EDUCATION

Training at King Khaled University Hospital (KKUH)

King Khaled University Hospital, Saudi Arabia, Riyadh.

08/2006 – 01/2007

Courses

- Outpatient pharmacy, Inpatient pharmacy, Drug information and poison centre, material management and Intravenous preparations.

Training in the research centre at King Faisal Specialist Hospital and Research Centre (KFSH & RC)

King Faisal Specialist Hospital and Research Centre, Saudi Arabia, Riyadh.

09/2012 – 12/2012

Courses

- Cardiovascular Research Program

CONFERENCES & COURSES

ESM-EVBO 2019 (Maastricht, Netherland)
Meeting of the European Society for Microcirculation (ESM) and the European Vascular Biology Organization (EVBO)
- 15-18 April /2019

7th Focused Meeting on Cell Signalling (Nottingham, UK)
Conference/Issuer of the certificate
- 16-17 April /2018

Pharmacology 2017 (Queen Elizabeth II Conference Centre, London, UK)
Meeting of British Pharmacological Society
- 11 - 13 December 2017

International Symposium on Resistance Arteries (Manchester, United Kingdom)
ISRA, Manchester, UK.
- 3-6 September /2017

Pharmacology 2016 (Queen Elizabeth II Conference Centre, London, UK)
Meeting of British Pharmacological Society
- 13 - 15 December /2016

Pharmacological aspects of microvascular cell-cell signalling and CVS disease (Oxford, UK)
Meeting of British Pharmacological Society
- 21-22 September /2016

Workshop (Radiation Safety Training)
Leicester Learning Institute, Leicester, UK.
- Workshop on the main points of the University of Leicester Radiation Protection Rules [20 January 2016].

Workshop (Chemical Hazards and COSHH)
Leicester Learning Institute, Leicester, UK.
- (30 October /2015)

PUBLICATIONS

Research Paper

Aqueous Date Flesh or Pits Extract Attenuates Liver Fibrosis via Suppression of Hepatic Stellate Cell Activation and Reduction of Inflammatory Cytokines, Transforming Growth Factor- β 1 and Angiogenic Markers in Carbon Tetrachloride-Intoxicated Rats.

Author(s)
Al-Rasheed NM, Attia HA, Mohamad RA, Al-Rasheed NM, Al-Amin MA, Al-Onazi AS.

Aprile 2015
Evid Based Complement Alternat Med, DOI: 10.1155/2015/247357.

Abstract

Potential role for G protein coupled receptor kinase 2 in vasoconstrictors-stimulated vascular smooth muscle cell proliferation via MAPK/ERK signalling pathway.

Author(s)
Asma Alonazi, Jonathon Willets.

Date of Publication
Journal of Vascular Research, DOI: 10.1159/000499516.

Poster presentation in ESM-EVBO 2019 [Maastricht, Netherland 15-18 April 2019].

Abstract

Modulation in G protein coupled receptor kinase 2 expression/catalytic activity differentially change vasoconstrictor-induced ASMC proliferation.

Author(s)
Asma Alonazi, Jonathon Willets.

Date of Publication
pA2 Online: E-Journal of British Pharmacological Society.

Poster presentation in BPS meeting Pharmacology 2017 [London, UK 11-13 December 2017].

Abstract

G Protein coupled receptor kinase 2 is essential for vasoconstrictor-stimulated arterial smooth muscle cell proliferation.

Author(s)
Asma Alonazi, Jonathon Willets.

Date of Publication
Journal of Vascular Research, DOI: 10.1159/000480116.

Poster presentation in International Symposium on Resistance Arteries [Manchester, UK 3-6 September 2017].

Abstract

Investigation of the Inhibitory Effect of Ruboxistaurin on the Activity of Smad and GRAP Proteins in Diabetic Induced Nephropathy Rat Model

Author(s)
Al-Onazi AS, Al-Rasheed NM, Attia HA, Al-Rasheed NM, Ahmed RM, Al-Amin MA, Poizat C.

Date of Publication
DIABETIC Medicine, DOI: 10.1111/dme.12091

Poster presentation in the Diabetes UK Professional Conference 2013, Manchester Central Convention Complex, Manchester, UK, 13-15 March 2013

PRESENTATION

Impact Of G Protein Coupled Receptor Kinase 2 on Cell Proliferation (2017), University of Leicester, UK.

CONFERENCES & COURSES

The Diabetes UK Professional Conference 2013 (Manchester, United Kingdom)
Conference/Issuer of the certificate
- 13-15 March /2013

The Second Scientific Meeting of Shaikh Abdullah BaHamdan Research Chair for Evidence-Based Health Care and Knowledge Translation in Collaboration with The 5th GCC Evidence Based Health Care (EBHC) Workshop
King Khaled University Hospital, Riyadh, Saudi Arabia.
- (14-18 November/2009).

The 3rd Annual King Fahad Cardiac Centre International Conference (Beating Heart Bypass Surgery Updates & Live Teleconference)
Conference/Issuer of the certificate
- (2-3 May/ 2009).

The 9th International Pharmaceutical Sciences Conference
Riyadh, Saudi Arabia.
- (17-21 December /2005)

Workshop (Security and Safety In Our Lives)
Collage of Pharmacy, King Saud University, Riyadh, Saudi Arabia.
- (6-7 April /2005)

ORGANIZATIONS

Membership in British Pharmacological Society (09/2016 – Present)

TECHNICAL SKILLS

Extensive experience in:
Preparation and handling of primary cell culture, Live cell calcium imaging, Cell proliferation assay, siRNA knockdown and Immunoblotting using Odyssey Licore imaging system.

Experience in computer/statistic programs including;
Microsoft Office: Word, Power point, Excel, Publisher, Graph pad prism; Analysis software: Image J.

PRESENTATION

Potential Role of G Protein coupled receptor kinase 2 in arterial smooth muscle cell proliferation (2016). University of Leicester, UK.

Investigation of the Inhibitory Effect of Ruboxistaurin on the Activity of Smad and GRAP Proteins in Diabetic Induced Nephropathy Rat Model (2013), The Diabetes UK Professional Conference 2013 (Manchester, UK).

The Stories of Withdrawn Drugs (2009), King Saud University/ Pharmacy College.

History of Influenza Pandemic; H1N1 (Swine Flu) (2009), King Saud University/ Pharmacy College.

Safe Handling of Cytotoxic and HazardusDrugs (2007), King Saud University/ Pharmacy College.

Malignant Primary Hypertension In Pregnancy Treated With Lisinopril (2006), King Saud University/ Pharmacy College.

POSTERS

Potential role for G protein coupled receptor kinase 2 in vasoconstrictors-stimulated vascular smooth muscle cell proliferation via MAPK/ERK signalling pathway.
Poster presentation in ESM-EVBO 2019 [Maastricht, Netherland 15-18 April 2019].

Modulation in G protein coupled receptor kinase 2 expression/catalytic activity differentially change vasoconstrictor-induced ASMC proliferation.
Poster presentation in BPS meeting Pharmacology 2017 [London, UK 11-13 December 2017].

G Protein coupled receptor kinase 2 is essential for vasoconstrictor-stimulated arterial smooth muscle cell proliferation.
Poster presentation in International Symposium on Resistance Arteries [Manchester, UK 3-6 September 2017].

Investigation of the Inhibitory Effect of Ruboxistaurin on the Activity of Smad and GRAP Proteins in Diabetic Induced Nephropathy Rat Model
Poster presentation in the Diabetes UK Professional Conference [Manchester, UK, March/2013] and Poster presentation in Graduates Students Annual Scientific Meeting at King Saud University [Riyadh, Saudi Arabia, 2013].

Safe Handling of Spillage of Cytotoxic Drugs
Poster presentation in Collage of Pharmacy at King Saud University [Riyadh, Saudi Arabia, 2007].