

## **Fatiha M. Benslimane**

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### **Education:**

- **Ph.D in Physiology and Pharmacology.** The University of Nottingham, Nottingham, UK, Sep 2011 – Jul 2016. *Thesis Project: Effect of dietary fat on lipid accumulation and macrophages activation in vivo.*
- **MSc in Biomedical Science.** Nottingham Trent University, Nottingham, UK, Oct 2008 - Nov 2009. *Thesis Project: Expression mapping of the potassium-chloride co-transporter KCC2 gene in neuronal tissue.*
- **BSc in Biomedical Sciences (Program accredited by NAACLS).** Qatar University, Doha, Qatar, Sep 2003 - Jul 2008. *Thesis Project: Qatari and Asians Indians Type 2 Diabetics in State of Qatar; Intracellular Cations and Ultrastructural Study of Platelets.*
- **Training rotation in biomedical diagnostic laboratories,** Hamad Medical Corporation (HMC), Doha, Qatar Feb- Jun 2008

### **Professional Employment:**

- Feb 2018-present: Research Associate, Zebrafish Facility manager and research coordinator, Biomedical Reach Center, Qatar University, Doha, Qatar.
- Jun 2016-Dec 2016: Visiting Postdoc fellow, Nottingham Trent University, Nottingham, UK
- Oct 2012-Mar 2013: Part time laboratory demonstrator for Physiology and Histology modules, The University of Nottingham – Nottingham, UK
- Oct 2009-Sep 2011: Research Specialist, Weill Cornell Medical College in Qatar, Doha, Qatar

### **Grants and awards:**

- **2019:** Investigating the efficacy of natural glucose lowering compounds in the prevention of congenital heart defects during maternal diabetes using the chick embryo model – Qatar university – Student Grant – LPI (10,000 QR)
- **2019:** *In Vivo* Investigation of Cardiac Benefits of Sodium Glucose Co-Transporter Inhibition in Type2 Diabetes Using the Zebrafish Model – Qatar university – Student Grant – Mentor (10,000 QR)
- **2019:** Investigating the effect of hyperglycemia on embryonic heart development using the Chick Embryo Model– Qatar university – Student Grant – Mentor (10,000 QR)
- **2018-2020:** Genetics of Habitat and Environmental Biomonitoring in Qatar - Qatar University - Qatar Petroleum – LPI. (2,481,201 QR)
- **2018-2020** Produced Water Management and Beneficial use in Qatar - Qatar University - Qatar Petroleum – LPI. (1,594,927 QR)
- **Feb 2018 - Dec 2019:** Health effect of air pollution in Qatar - prompt cellular responses to particle exposition– QU Collaborative Internal Grants – PI. (298,492 QR)
- **2018-2019:** Whole Genome Sequencing of the Dugong specie – Qatar university - Exxon Mobil - LPI. (30,000 USD)
- **2011-2016:** The University of Nottingham Research Excellence Scholarship to pursue a Ph.D degree in The University of Nottingham. Nottingham, UK.
- **2007:** The second cycle of the Undergraduate Research Experience Program (UREP). Doha, Qatar. (20,000 USD)
- **2007:** Student internal grant by Qatar University's College of Arts and Sciences research committee. (50,000 QTR)

- **2005:** Full Scholarship to attend a summer training program for future leaders in the multicultural 21st century in Al-Maktoum Institute for Arabic and Islamic studies held in Dundee, Scotland.

## Publications

- Benslimane, F.M.** and Yalcin, H.C., 2019. Adaptation of a Mice Doppler Echocardiography Platform to measure cardiac flow velocities for embryonic chicken and adult Zebrafish. *Frontiers in Bioengineering and Biotechnology*, 7, p.96.
- Eisa-Beygi, S., **Benslimane, F.M.**, El-Rass, S., Prabhudesai, S., Abdelrasoul, M.K.A., Simpson, P.M., Yalcin, H.C., Burrows, P.E. and Ramchandran, R., 2018. Characterization of endothelial cilia distribution during cerebral-vascular development in zebrafish (*Danio rerio*). *Arteriosclerosis, thrombosis, and vascular biology*, 38(12), pp.2806-2818.
- Zakaria, Z.Z., **Benslimane, F.M.**, Nasrallah, G.K., Shurbaji, S., Younes, N.N., Mraiche, F., Da'as, S.I. and Yalcin, H.C., 2018. Using Zebrafish for Investigating the Molecular Mechanisms of Drug-Induced Cardiotoxicity. *BioMed research international*, 2018.
- Benslimane, F.**, 2016. Effect of dietary fat on lipid accumulation and macrophage activation in vivo (Doctoral dissertation, University of Nottingham).
- Aldubyan, M.A., Almami, I.S., **Benslimane, F.M.**, Alsonosi, A.M. and Forsythe, S.J., 2017. Comparative Outer Membrane Protein Analysis of High and Low-Invasive Strains of *Cronobacter malonaticus*. *Frontiers in microbiology*, 8, p.2268.
- Ding, H., **Benslimane, F.**, Marei, I. and Triggle, C.R., 2012. High Glucose Increases Acetylcholine-Induced Ca<sup>2+</sup> Entry and Protein Expression of STIM1. *International Science Index*, 6(4).

## Abstracts

- Huseyin C. Yalcin, **Fatiha M. Benslimane**, Mahmoud Abdelrasool, Zain Z. Zakaria , Time-lapse microscopy and doppler echocardiography-based cardiac function analysis of zebrafish, 13th International Zebrafish Conference, June 20 – 24 2018, University of Wisconsin Madison, USA
- Fatiha Benslimane**, Andrew Bennett, High fat diet-induced liver steatosis in the absence of obesity. 5th European Lipidomic Meeting – Swansea, UK. 2015.
- Chris R. Triggle, **Fatiha Benslimane**, Samson Samuel, Gnanapragasam Arunachalam, Hala Omar, Isra Marei, Hong Ding. Diabetic Microangiopathy: Insight into Glucose Toxicity. *15th Australian and New Zealand Microcirculation Society Meeting 2011*, Australia.
- Samson Mathews Samuel, Gnanapragasam Arunachalam, Isra Marei, **Fatiha Benslimane**, Hong Ding, and Chris R. Triggle. (2011). Role of Oxidative Stress in Hyperglycemia Induced Endoplasmic Reticulum Stress Associated Vascular Dysfunction. *Qatar Foundation Annual Research Forum Proceedings: Vol. 2011*, BMP32
- Triggle C. R., Al Kindi S, Gurkha D, Buddhavarapu S, Al Jerdi S, Sanya R, Al Mezrakchi Y, Marei I, **Benslimane F**, Arunachalam G, Ding H. Targeting endothelial nitric oxide synthase for the treatment of diabetic vascular disease. *DALM XVII international symposium; Diabetic, Obesity & the Metabolic Syndrome 2011*, Doha- Qatar
- Afifi N. M., Ewis S. M., **Benslimane F. M.**, Bejaoui Y. R., Alghafer A.: Parathyroid Hormone, Platelet Free Cytosolic Calcium and Platelet Indices among Asian Indian and Qatari Subjects. *Experimental Biology convention 2010* (The FASEB Journal), California-USA, 1048.5.
- Afifi N. M., Ewis S. M., **Benslimane F. M.** and Bejaoui Y. R: Qatari and Indian Asians Type 2 Diabetes in the State of Qatar; IntraCellular Cations and Ultra Structural Study of Platelets. *Experimental Biology convention 2009* (The FASEB Journal), New Orleans-USA. 644.3.