**Curriculum vitae**

**Personal details**

**Name Dr. Bushra Taher Mohammed**

**Job title: Researcher and lecturer**

**Workplace: Pathology and microbiology Department, College of Veterinary Medicine, University of Duhok, Kurdistan region, Iraq.**

**Google scholar: https://scholar.google.com/citations?user=Zd10ju0AAAAJ&hl=en**

**E-mail:**

**bushrat.mohammed@uod.ac**

**Mobile: +9647504571509**

**Educational attainment**

1. **2012-2016, PhD in Molecular and Developmental Biology, College of Medicine and Veterinary Medicine, University of Edinburgh. Scotland. UK**

(Donadeu et al., 2019, 2017; Mohammed et al., 2019, 2017; Mohammed and Donadeu, 2018; Sontakke et al., 2014).

1. **2005- 2007, MSc (Master of Science in Veterinary Anatomy and Histology, College of Veterinary Medicine, University of Duhok**

(Mohammed BT, 2008).

1. **1998- 2003, BVM&S (Bachelor in Veterinary Medicine and Surgery, College of Veterinary Medicine, University of Duhok.**

**Language skills:**

Kurdish, Arabic & English**.**

 **2011-2012,** I did English language course at University of Edinburgh. Scotland. UK

The IELTS score was overall **7**.

**Computer Skills:**

* Office package (word, excel, PowerPoint, outlook and access)
* Statistics analysis software
* Bioinformatics
* Computational analysis

**Laboratory Skills**

* microRNAs localisation using in situ hybridization and flow activated sorting cells (FACS)
* Immunocytochemistry
* microRNA Target genes using several algorithms
* Molecular tools
* Isolation of cells using Ficoll or Collagenase
* Cell culture (bovine and human cells)
* Cell transfection using miRCURY LNA inhibitors, miScript miRNA mimics, siRNAs and Scramble
* Relative expression of microRNAs and mRNA using RT-qPCR
* Steroid hormones analysis using radioimmunoassay RIA and ELISA
* Protein analysis for miRNA target gene using Western blot
* Apoptosis assay: using Caspase-Glo® 3/7, Annexin-V-Fluos staining kit and Trypan blue exclusive dye

**Training courses at University of Edinburgh. UK**

* English language course
* Laboratory induction
* Basic Course in Radiation Protection in Research and Teaching
* Bioinformatics
* Ensemble Genome
* Molecular tools
* Browser workshop Searching Research Literature - Veterinary Medicine
* Managing a Bibliography in Endnote
* The Writing Process: Getting Started (SCE&MVM)

**Training courses at University of Duhok**

* Methods of teaching

English language course

**Work experience:**

**2003- 2005, Demonstrator:**  College of Veterinary Medicine University of Duhok, Kurdistan Region, Iraq.

**2005- 2007, MSc student:** College of Veterinary Medicine University of Duhok, Kurdistan Region, Iraq.

**2007- 2011, Assistant lecturer**: College of Veterinary Medicine University of Duhok, Kurdistan Region, Iraq.

**2012- 2016, PhD student:** College of Medicine and Veterinary Medicine, University of Edinburgh. Scotland. UK

**2016,** **Casual researcher:**  I worked as casual researcher in Roslin institute, College of Medicine and Veterinary Medicine, University of Edinburgh.

**2015-2016, Interpreter**: I worked with Elite Linguists C.I.C. as interpreter for Kurdish and Arabic people in Scotland, UK.

**2017- till now, Lecturer** at Pathology and Microbiology department, College of Veterinary Medicine University of Duhok, Kurdistan Region, Iraq.

**2017- till now, Researcher and member** **at Duhok Research Centre,** University of Duhok, College of Veterinary Medicine, Kurdistan Region, Iraq (Mohammed and Donadeu, 2018).

**2017-till now, Supervisor of undergraduates** (5th year undergraduate project) atUniversity of Duhok, College of Veterinary Medicine, Kurdistan Region, Iraq

**2017-2018, Member in granting scientific title for postgraduates** atUniversity of Duhok, College of Veterinary Medicine, Kurdistan Region, Iraq

**2018-2019, Member in book preparation and editing committee** at University of Duhok, Kurdistan Region, Iraq

**2019-2020, Chair of undergraduate Examination committee**

**2017- till now**, **Reviewer:** reviewing papers for the best international journals (**DNA and Cell Biology**, Journal of **Dairy Science**, **Molecular and Cellular Endocrinology**, **Frontiers** journal, **Gene** journal, **Scientific reports, animal reproduction science, reproduction**)

**International association Membership:**

1. Full member (ID: 485) of Society of Reproduction and Fertility**.** UK
2. Full member (ID: P0131559) of Royal Society of Biology, UK
3. Full member (ID:134414) of Society of Endocrinology. UK

**Workshops**

* **Presenter:** April 2018 workshop on PCR essential and application organized by Duhok Research Centre, University of Duhok, College of Veterinary Medicine, Kurdistan Region, Iraq
* **Presenter:** July 2018 workshop on Basic Concepts in Bioinformatics and Databases organized by Duhok Research Centre, University of Duhok, College of Veterinary Medicine, Kurdistan Region, Iraq
* **Participant:** February 2019 workshop on Histopathological techniques organized by Duhok Research Centre, University of Duhok, College of Veterinary Medicine, Kurdistan Region, Iraq
* **Organizer and Presenter:** April 2019 workshop on PCR essential and application organized by Duhok Research Centre, University of Duhok, College of Veterinary Medicine, Kurdistan Region, Iraq
* **Presenter:** July 2019 workshop on Basic Concepts in Bioinformatics and Databases organized by Duhok Research Centre, University of Duhok, College of Veterinary Medicine, Kurdistan Region, Iraq

**Conferences**

**Bushra Mohammed**, Sadanand D. Sontakke, W. Colin Duncan and Francesc X. Donadeu, **(2014).** Functional evaluation of miRNAs during bovine ovarian follicular/luteal development. World Congress of Reproductive Biology, **Edinburgh, UK** (Oral Presentation).

**Bushra T Mohammed**, W Colin Duncan and Francesc X Donadeu, **(2015).** Functional evaluation of miRNAs during the ovarian follicular/luteal transition. Conference of the Society of Reproduction and Fertility (SRF), **Oxford, UK** (Poster).

**Bushra T Mohammed**, W. Colin Duncan and Francesc X. Donadeu**, (2016).** Functional evaluation of miRNAs during the follicle-luteal transition in the monovular ovary: Involvement of miR-132 and miR-96 in cell survival. 18th International Congress on Animal Reproduction (ICAR), **Tours, France** (Oral and Poster Presentation).

**Bushra T Mohammed**, Cristina Esteve, W. Colin Duncan and Francesc X. Donadeu, **(2019).** Isolation of different bovine luteal cell fractions using fluorescence-activated cell sorting. The Fertility Conference, **Birmingham, UK** (Poster).

**Bushra T Mohammed** and Francesc X. Donadeu, (2020). Identification of miR-202 in bull testis using in situ hybridisation. The Fertility Conference, Edinburgh, UK (Poster).

**Publications**

Donadeu, F.X., Mohammed, B.T., Ioannidis, J., 2017. A miRNA target network putatively involved in follicular atresia. Domest. Anim. Endocrinol. 58. https://doi.org/10.1016/j.domaniend.2016.08.002

Donadeu, F.X., Sanchez, J.M., **Mohammed, B.T**., Ioannidis, J., Stenhouse, C., Maioli, M.A., Esteves, C.L., Lonergan, P., 2019. Relationships between size, steroidogenesis and miRNA expression of the bovine corpus luteum. Theriogenology. https://doi.org/https://doi.org/10.1016/j.theriogenology.2019.10.033

Mohammed, B.T., Donadeu, F.X., 2018. Bovine Granulosa Cell Culture. Methods Mol. Biol. 1817, 79–87. https://doi.org/10.1007/978-1-4939-8600-2\_8

Mohammed, B.T., Esteves, C.L., Donadeu, F.X., 2019. Analyses of bovine luteal fractions obtained by FACS reveals enrichment of miR-183-96-182 cluster miRNAs in endothelial cells. Reprod. Biol. Endocrinol. 17, 41. https://doi.org/10.1186/s12958-019-0484-9

Mohammed, B.T., Sontakke, S.D., Ioannidis, J., Duncan, W.C., Donadeu, F.X., 2017. The adequate corpus luteum: Mir-96 promotes luteal cell survival and progesterone production. J. Clin. Endocrinol. Metab. 102, 2188–2198. https://doi.org/10.1210/jc.2017-00259

Mohammed, B.T.M.F.S.M., 2008. Anatomical And Histological Study Of Goat ̉s Kidney. J. Duhok Univ. 11, 148–154.

Sontakke, S.D., Mohammed, B.T., McNeilly, A.S., Donadeu, F.X., 2014. Characterization of microRNAs differentially expressed during bovine follicle development. Reproduction 148. https://doi.org/10.1530/REP-14-0140