**Curriculum vitae**

**Personal details**

**Name Dr. Bushra Taher Mohammed**

**Job title: Lecturer and Researcher**

**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**

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**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**

**2020-2021 member of undergraduate Examination committee**

**2021-2022 Chair of granting undergraduate certificate 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 of Society of Reproduction and Fertility**.** UK
2. Full member 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
* SRF early career workshop 2020,2021, UK, online
* workshop attendance (instruction of scientific promotion), 2021, University of Duhok
* (A workshop for PhD holders from 2010 to now).2021. University of Duhok

**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).

**Bushra T Mohammed, SfE BES Online conference (2020). Attendent.**

**Bushra T Mohammed**, (2021) virtual EMBL Conference: SARS-CoV-2 - Two years on: Science Meets the Challenge. Online

**Bushra T Mohammed, (2021)** The Fertility Conference, Attendance. Online

**Bushra T Mohammed, (2021)**.1st Scientific Conference of College of Health Sciences/HMU. Hawler Medical University, Online

**Bushra T Mohammed** and Francesc X. Donadeu, **(2022). Localisation and in silico based functional analysis of miR-202 in bull testis.** The Fertility Conference, (Poster). Online

**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