

# Curriculum Vitae

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### **Academic Qualifications:**

- Doctor of philosophy (PhD), Faculty of Veterinary Science, University of Melbourne, Australia, 2013. “The therapeutic use of mesenchymal precursor cells in an ovine collagen induced arthritis model of rheumatoid arthritis”.
- Master of Veterinary Science (MVSc), Faculty of Veterinary Science, University of Melbourne, Australia, 2009. “The use of phage display antibodies in defining alloantigens of canine RBC”.
- Bachelor of Veterinary Science (BVSc), Faculty of Veterinary Science, University of Tripoli, Libya, 1999.

### **Publications:**

- Tmumen, S, K, Anwar M Abdalmula, Fahima A Alnagar (2020). Hematological and biochemical blood changes in chronic tendinitis thoroughbred race horses. *International Journal of Scientific Research and Management*, 8(08), 12-19.
- Abdalmula, A.M., Benashour, F.M., Shmela, M.E., Alnagar, F.A., Abograra, I.M. and Buker, A.O., 2019. Blood profile in normal one humped dromedary (*Camelus dromedarius*) camels in Libya. Part 3: Effect of sex variation on biochemical and hematological blood profile. *Int. J. Sci. Basic Appl. Res.*, 48: 9-24
- Anwar M Abdalmula, Fahima A Alnagar, Amal O Buker, Fathia M Benashour, Ismail M Abograra, Mansur E Shmela. 2018. Blood profile in normal one humped dromedary (*Camelus dromedarius*) camels in Libya. Part 2: Effect of breed variation on biochemical and haematological blood profile. *International Journal of Research in Medical and Basic Sciences* 4(10):1-15.
- Abdalmula, A.M., A.O. Buker, F.M. Benashour, M.E. Shmela, I.M. Abograra, and F.A. Alnagar. 2018. Blood profile in normal one humped dromedary (*Camelus dromedarius*) camel breeds in Libya. Part 1: Determination of biochemical and haematological blood profile. *International Journal of Research in Medical and Basic Sciences* 4(8):1-19.

- Alnagar, F.A., M.E. Shmela, A.M. Alrtib, F.M. Benashour, A.O. Buker, and A.M. Abdalmula. 2018. Health adverse effects of formaldehyde exposure to students and staff in gross anatomy. *International Journal of Scientific Research and Management* 6:27-36.
- Abdalmula, A., L.M. Dooley, C. Kaufman, E.A. Washington, J.V. House, B.A. Blacklaws, P. Ghosh, S. Itescu, S.R. Bailey, and W.G. Kimpton. 2017. Immunoselected STRO-3+ mesenchymal precursor cells reduce inflammation and improve clinical outcomes in a large animal model of monoarthritis. *Stem cell research & therapy* 8:22.
- Dooley, L.M., A. Abdalmula, E.A. Washington, C. Kaufman, E.M. Tudor, P. Ghosh, S. Itescu, W.G. Kimpton, and S.R. Bailey. 2015. Effect of mesenchymal precursor cells on the systemic inflammatory response and endothelial dysfunction in an ovine model of collagen-induced arthritis. *PloS one* 10:e0124144.
- Dooley, L.M., E.A. Washington, A. Abdalmula, E.M. Tudor, W.G. Kimpton, and S.R. Bailey. 2014. Endothelial dysfunction in an ovine model of collagen-induced arthritis. *Journal of vascular research* 51:90-101.
- Abdalmula, A., E. Washington, J. House, L. Dooley, B. Blacklaws, P. Ghosh, S. Bailey, and W. Kimpton. 2014. Clinical and histopathological characterization of a large animal (ovine) model of collagen-induced arthritis. *Veterinary immunology and immunopathology* 159:83-90.

#### **Conference presentations:**

- Characterization of Type II Collage Induced Arthritis (CIA) in an ovine model of rheumatoid arthritis. *Australasian Society for Immunology* (2012). Melbourne, VIC.
- Mesenchymal precursor cells reduce histopathological disease progression in late stages of collagen induced arthritis in an ovine model of rheumatoid arthritis. *International Society for Stem Cell Research* (2013). Boston, MA, USA.
- Mesenchymal precursor cells reduce histopathological disease progression in early stages of collagen induced arthritis in an ovine model of rheumatoid arthritis. *World Conference on regenerative medicine* (2013). Leipzig, Germany.

#### **Teaching Experience:**

- Lecturer at Biochemistry Department, Department of Physiology, Nutrition and Biochemistry, faculty of Veterinary Science, University of Tripoli, Libya, 2013 to date. Delivering lectures about the structure, functions and interactions of biological macromolecules, such as proteins, nucleic acids, carbohydrates and lipids for the first year students.
- Demonstrator at Biochemistry Department, Department of Physiology, Nutrition and Biochemistry, faculty of Veterinary Science, University of Tripoli, Libya, 2001-2006.

Demonstrating the basic laboratory detections of proteins and carbohydrates for the first year students.

- Demonstrator at Pathology Department (part time), faculty of Pharmacy, University of Tripoli, Libya, 2002-2003. Demonstrating the Microscopical Pathology for the third year students.
- Demonstrator at Parasitology Department (part time), faculty of Medical Biotechnology, University of Tripoli, Libya, 2003-2006. Demonstrating the Microscopical detections of blood parasite for the second year students.
- Demonstrator at Parasitology Department, faculty of Medicine, University of Azzawia, Surman, Libya, 2005-2006. Demonstrating the Microscopical detections of blood parasite for the third year students.

**Research Experience:**

- Therapeutic use of Mesenchymal stem cells.
- Molecular cloning of proteins including western blot analysis and protein purification.
- Hybridoma fusion technology, production of polyclonal and monoclonal antibodies.
- Immunochemistry and Immunohistochemistry.
- Phage display technology including growing, titration and amplification of *E coli* strain, phage display libraries, helper and anti-BSA phage.
- Phage precipitation and cloning.
- Panning, elution and amplification of phage display antibody libraries.
- Fluorescence Activated Cell Sorting (FACS) analysis.