

Dr. Basim J. Awda

Department of Optic Techniques

Professor of Reproductive Physiology

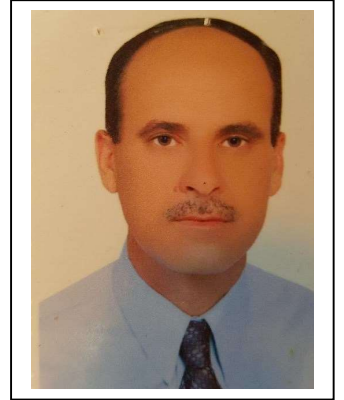
Email: basim.awda@alfarabiuc.edu.iq

Education:

PhD, University of Guelph, Canada, 2009

MSc, University of Baghdad, 1996

BSc, University of Baghdad, 1991



Profile:

- Assistant Professor, Department of Biology, College of Sciences, University of Hail, Hail, Saudi Arabia. September, 2017- 2018.
- Professional Research Associate, University of Saskatchewan, Saskatoon, Canada, 2014 – August, 2017.
- Lecturer, Al- Nahrain University, Baghdad, Iraq, 2013 – 2014.
- Research Associate, University of Guelph, June 2009 - July 14, 2012.

Teaching

- The Course of Eye Physiology and Vision (Theoretical and Practical)
- - Given to second year

Research Focus

- Identify the proteins / genomes that are associated with sperm fertility.
- Employ proteomics, biomarker probes and nanotechnology in sperm fertility assays to improve semen quality used in artificial insemination,.
- Identify factors impacting the physiological changes/mechanisms associated with poor fertilization, embryo development and fetal loss.

Publications

Awda BJ, Mahoney IV., Murray P., Buhr MM. Existence and function of Na⁺ K⁺-ATPase in boar spermatozoa. Submitted to the Journal of Molecular Reproduction and Development.

Awda BJ, Wood KM., Keomanivong FE., Borowicz PP., McBride BW., Miller SP, Fitzsimmons CJ, Swanson KC. The influence of pregnancy and plane of nutrition during pregnancy on pancreatic digestive enzymes and insulin-containing cell cluster morphology in beef cows. *Can. J. Anim. Sci.* 2017; 97: 145-153.

Prezotto LD., Lemley CO., Camacho LE., Doscher FE., Meyer AM., Caton JS., **Awda BJ**, Vonnahme KA., Swanson KC. Effects of nutrient restriction and melatonin supplementation on maternal and fetal hepatic and small intestinal energy utilization. *Journal of Animal Physiology and Animal Nutrition* 2014; 98: 797–807.

Wood KM., **Awda BJ**, Fitzsimmons C, Miller SP, McBride BW and Swanson KC. The influence of pregnancy in mid-to-late gestation on circulating metabolites, visceral organ mass, and abundance of proteins relating to energy metabolism mature beef cows. *J. Anim. Sci.* 2013; 91:5775-5784.

Wood KM, **Awda BJ**, Fitzsimmons C, Miller SP, McBride BW, and Swanson KC .The effect of moderate dietary restriction on visceral organ weight, hepatic oxygen consumption, and metabolic proteins associated with energy balance in mature pregnant beef cows. *J. Anim. Sci.* 2013; 91: 4245- 4255.

Awda BJ, Miller SP, Montanholi YR, Vander Voort, Caldwell T, Buhr MM, Swanson KC. The Relationship between feed efficiency traits and fertility in young beef bulls. *Can. J. Anim. Sci.* 2013; 93: 185-192.

Awda BJ, and Buhr MM. Extracellular signal-regulated kinases (ERKs) pathway and reactive oxygen species regulate tyrosine phosphorylation in capacitating boar spermatozoa. *Biol Reprod.* 2010; 83: 750-758.

Awda BJ, Mackenzie-Bell M, Buhr MM. Reactive oxygen species and boar sperm function. *Biol Reprod.* 2009; 81: 553-561.

Affiliations/Activities

- Society for the Study of Reproduction
- American Society of Andrology

- American Society of Animal Science