



Mohamed Hedia

Assistant Lecturer, Department of Theriogenology, Faculty of Veterinary Medicine, Cairo University.

Contact details

Address: Department of Theriogenology, Faculty of Veterinary Medicine, Cairo University. Cairo University Rd, Giza 12211, Egypt.

Date of birth: 22/ 08/ 1992

Phone: +20 01004375975 - +32488753045

E-mail: mohammedhedia@cu.edu.eg, mohamed.hedia@ugent.be

Objective

- Pursue a PhD in top class university to gain knowledge that nourishes my experience in the fundamental and applied studies related to animal reproduction and assisted reproductive techniques especially for equine species to ameliorate fertility via improving the oocyte and embryo quality through in vitro and in vivo protocols. In addition, understanding the optimal follicular environment for optimal fertilizing capacity through clarify the possible association between the ovarian molecular status and oocyte quality and the corresponding embryo in mares.

Education

- **December 2018:** Master of Veterinary Medical Sciences (MVSc.) entitled 'Seasonal dynamics of testicular blood flow and their association with reproductive performance in rams'.
- **May 2014:** Bachelor Degree in Veterinary Medical Sciences (BVSc) Faculty of Veterinary Medicine, Cairo University, Egypt. My final grades ranked me the 7th among other 500 classmates, with a "Very Good" degree with "Honors". English is the language of the five years study.

Academic positions:

December 2015 – December 2018: Teaching assistant, Department of Theriogenology, Faculty of Veterinary Medicine, Cairo University, Egypt.



February 2019 – August 2021: Assistant lecturer, Department of Theriogenology, Faculty of Veterinary Medicine, Cairo University, Egypt.

September 2021: Joint PhD candidate at the University of Antwerp and University of Ghent, Belgium.



Research experience and skills

- Application of Doppler ultrasonography to assess the reproductive performance, as well as semen collection and evaluation in farm animals during the Masters.
- I am participating in reviewing the manuscripts of my colleagues especially scientific writing, editing and submission process for international journals.
- I am participated as a reviewer for many scientific international journals concerning animal reproduction as mentioned on my Publons account (<https://publons.com/researcher/3694835/mohamed-hedia/>).

Academic Teaching contribution and skills

1- Good communication and presentation skills gained through teaching and Team-working in Lab.

2- Good time management and organization.

3- Teaching the practical part (courses taught in English for 40 hours/academic year) of animal reproduction courses for 4th and 5th year undergraduate student as well as post-graduate students. These courses are Gynecology, Andrology and artificial insemination as well as Obstetrics in farm and pet animals.

4- Contributing in teaching of summer courses and clinical training of different aspects of Animal Reproduction (such as physiology of reproduction in male and female, pregnancy diagnosis, treatment of infertility, treatment of dystocia (difficult birth) using different approaches, semen collection, evaluation and artificial insemination in farm animals for undergraduate students, Department of Theriogenology, Faculty of Veterinary Medicine, Cairo University.

Publications (<https://scholar.google.com/citations?user=LaveLfIAAAAJ&hl=en>)

1. Monthly changes in testicular blood flow dynamics and their association with testicular volume, plasma steroid hormones profile and semen characteristics in rams (2019). *Theriogenology*, 123, 68-73.
2. Seasonal changes in testicular pixel-intensity and their association with semen characteristics in rams (2020). *Asian Pacific Journal of Reproduction*, 9, 49-54.



3. Evaluation of testicular blood flow and ultrasonographic measurements in rams with emphasis on laterality (2020). *Journal of Advanced Veterinary Research*, 1, 17-20.
4. Seasonal variation in testicular blood flow dynamics and their relation to systemic and testicular oxidant/ antioxidant biomarkers and androgens in rams (2020). *Reproduction in Domestic Animals*, 55(7): 861-869.
5. Testicular morphometric and echotextural parameters and their correlation with intratesticular blood flow in Ossimi ram lambs (2021). *Large Animal Review*, 27, 77-82.
6. Hemodynamic changes in cytokines, chemokines, acute phase proteins and prostaglandins in mares with subclinical endometritis (2021). *Theriogenology*, 171, 38-43.
7. Alterations in the expression of serum miR-155, miR-223, miR-17, miR-200a, and miR-205 as well as levels of interleukin 6, and prostaglandins during endometritis in Arabian mares (2021). *Veterinary Sciences*, 8, 98-108.
8. Effects of buserelin administration on testicular blood flow and plasma concentrations of testosterone and estradiol-17 β in rams (2021). *Domestic Animal Endocrinology*, 77, 106646.
9. Exogenous oxytocin administration improves the testicular blood flow in rams (2021). *Andrologia*, 53, e14193.
10. Melatonin improves testicular hemodynamics, echotexture and testosterone production in Ossimi rams during the breeding season (2021). *Reproduction in Domestic Animals*,

Projects

- 1- Exosomes as novel biomarker for equine endometritis: a new diagnostic and prognostic tool. Project ID: 33342, Science and Technology development Fund (STDF), Egypt.

Clinical Experiences

- 1- Veterinarian at the clinic of Theriogenology Department, Faculty of Veterinary Medicine, Cairo University and other private clinics as well as farms since March 2016.
- 2- Treatments of different forms of infertility in farm animals.
- 3- Perform pregnancy diagnosis in farm animals and pet animals using different methods such as rectal palpation and ultrasonography.
- 4- Treatment of different forms of dystocia in farm and pet animals using different methods including caesarian section.
- 5- Semen collection, evaluation, and artificial insemination in farm animals.



Training Courses

	Topic	Place
	Date and period	
1	Managing time and meetings	Faculty and Leadership Development Center
	(26-27/ 3 /2016)	
2	Effective teaching skills	Faculty and Leadership Development Center
	(31/8 & 1/9/ 2016)	
3	International Publishing of scientific research	Faculty and Leadership Development Center
	(27-28/12/2017)	
4	Statistical analysis of bio-experiments	Faculty and Leadership Development Center
	(28-29/4/2018)	
5	Communication skills	Faculty and Leadership Development Center
	(13-14/8/2018)	
6	Exams and students evaluation systems	Faculty and Leadership Development Center
	(17-18/10/2018)	
7	Conference organization	Faculty and Leadership Development Center
	(24-25/ 8/ 2020)	
8	Positive thinking	Faculty and Leadership Development Center
	(7-8/ 9 /2020)	

Language

Arabic: Mother language

English: IELTS band **6** (Listening **6**, Reading **7**, Writing **6.5**, Speaking **5**), **24 August 2019**, IDP IELTS, Egypt.

Hobbies and interests

- Soccer.
- Fishing.