



FACULTY FULL NAME: MOHSEN GHALEB AL-MUTARY

POSITION: Assistant Professor

Personal Data

Nationality | Saudi

Date of Birth | 28/06/1976

Department | Basic Sciences

Official IAU Email | mgalmutary@iau.edu.sa

Office Phone No. | 96638274155- 338

Language Proficiency

Language	Read	Write	Speak
Arabic	√	√	√
English	√	√	√

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2015	PhD	KSA	KSU
2002	M.Sc.	KSA	KSU
1998	B.Sc.	KSA	KSU

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	Effect of the ovarian follicular fluid on gene expression and in vitro development of sheep embryos	GPA = 5 out of 5
M.Sc.	Effect of Tamoxifen on the migration of primordial germ cells in chick embryos	GPA = 4.6 out of 5



Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work			Date
Assistant Prof.	Education college-IAU	Dammam	KSA	2015-present
Lecturer	Teachers College	Dammam	KSA	2007-2015
teacher	Ministry of Education	Riyadh	KSA	2002-2007

Scientific Achievements (Published Refereed Scientific Researches (In Chronological Order Beginning with the Most Recent))

1. **Al-Mutary, Mohsen.** 2020. Use of antioxidants to augment semen efficiency during liquid storage and cryopreservation in livestock animals: A review. Journal of King Saud University – Science (accepted).
2. G.M. Abu-Taweel, **M.G. Al-Mutary**, Pomegranate juice rescues developmental, neurobehavioral and biochemical disorders in aluminum chloride-treated male mice, Journal of Trace Elements in Medicine and Biology 63 (2021) 126655.
3. **Al-Mutary MG**, Al-Ghadi MQ, Ammari AA, Al-Himadi AR, Al-Jolimeed AH, Arafah MW, Amran RA, Aleissa MS, Swelum AA-A. 2020. Effect of different concentrations of resveratrol on the quality and in vitro fertilizing ability of ram semen stored at 5 °C for up to 168 h. Theriogenology, 152:139-146.
4. **M.G. Al-Mutary**, G.M. Abu-Taweel, Effects of pomegranate juice on the sexual behavior, fertility and protective activity against aluminum exposure in male mice, Journal of King Saud University - Science 32(6) (2020) 2688-2695.
5. Khan H.A., Ibrahim K.E., Alrashood S.T., Alamery S., Alrokayan S.H., Al-Harbi N., **Al-Mutary M.G.**, Sobki S.H. & Khan I. 2020. Immunohistochemistry of IL-1 β , IL-6 and TNF- α in spleen of mice treated with gold nanoparticles. Saudi Journal of Biological Sciences 27:1163-1168.
6. M.Q. Al-Ghadi, A.R. Alhimaidi, D. Iwamoto, **M.G. Al-Mutary**, A.A. Ammari, K.O. Saeki, M.S. Aleissa, The in vitro development of cloned sheep embryos treated with Scriptaid and Trichostatin (A), Saudi Journal of Biological Sciences 27(9) (2020) 2280-2286.
7. Abdelnour SA, Abd El-Hack ME, Swelum AA-A, Saadeldin IM, Noreldin AE, Khafaga AF, **Al-Mutary MG**, Arif M, Hussein E-SOS. 2019. The Usefulness of Retinoic Acid Supplementation during In Vitro Oocyte Maturation for the In Vitro Embryo Production of Livestock: A Review. Animals, 9(8):561.
8. **Al-Mutary M.** 2019. Effect of resveratrol supplementation to Triladyl^(R) on the quality of ram chilled semen. Indian Journal of Animal Sciences 89(9): 932–937.



9. Swelum, A. A., Saadeldin, I.M., Ba-Awadh, H., **Al-Mutary, M.G.** & Alowaimer, A.N., 2019. Effect of short artificial lighting and low temperature in housing rooms during non-rutting season on reproductive parameters of male dromedary camels. *Theriogenology* 131, 133-139.
10. **Al-Mutary, M.**, Al-Ghadi, M., Al-Himaidi, A., Iwamoto, D., Al-Anazi, Y., Ammari, A., Ahmad, J. & Al-Khedhairi, A., 2019. Using RT-PCR and glutathione level to study the effect of follicular fluid on in vitro maturation and gene expression of sheep oocytes. *Saudi Journal of Biological Sciences* 26 (6): 1216-1222.
11. Alwelaie, M.A., **Al-Mutary, M.G.**, Siddiqi, N.J., Arafah, M.M., Alhomida, A.S. & Khan, H.A., 2019. Time-Course Evaluation of Iminodipropionitrile-Induced Liver and Kidney Toxicities in Rats: A Biochemical, Molecular and Histopathological Study. *Dose-Response* 17(2): 155.
12. Abdel-Aziz Swelum A., M Saadeldin I., Ba-Awadh H., **G Al-Mutary M.**, F Moumen A., N Alowaimer A., Abdalla H. 2019. Efficiency of Commercial Egg Yolk-Free and Egg Yolk-Supplemented Tris-Based Extenders for Dromedary Camel Semen Cryopreservation. *Animals*: 9:999.
13. Abu-Taweel G.M., **Al-Mutary, M.G.**, Antonisamy P., Arokiyaraj S., Kim H.-J., Kim S.-J., Park K.H., Kim Y.O. 2019. Spirulina consumption effectively reduces anti-inflammatory and pain related infectious diseases. *Journal of Infection and Public Health* 12:777-782.
14. **M. Al-Mutary**, M. Al-Ghadi, A. Al-himaidi, D. Iwamoto, Y. Al-anazi, A. Ammari, J. Ahmad, A. Al-Khedhairi, Using RT-PCR and glutathione level to study the effect of follicular fluid on in vitro maturation and gene expression of sheep oocytes, *Saudi Journal of Biological Sciences* 26(6) (2019) 1216-1222.
15. **Al-Mutary, M.G.**, Abu-Taweel G.M., Rajagopal R., Sun-Ju K., Kim H.-J., Kim Y.O., Mothana R.A., Kadaikunnan S., Khaled J.M., Siddiqui N.A., Al-Rehaily A.J. 2019. Betulinic acid lowers lipid accumulation in adipocytes through enhanced NCoA1-PPAR γ interaction. *Journal of Infection and Public Health* 12:726-732.
16. Ibrahim, K.E., **Al-Mutary, M.G.**, Bakhiet, A.O. & Khan, H.A. Histopathology of the Liver, Kidney, and Spleen of Mice Exposed to Gold Nanoparticles. *Molecules* 2018, 23(8): 1848.
17. Germoush, M.O., **Al-Mutary, M.G.**, Ahmad R. Al-Himaidi, A., Al-Ghadi, M., Daisaku Iwamoto, Yousef Al-Anazi, Aiman Ammari, Javed Ahmad & Abdulaziz Al-Khedhairi, 2018. Effects of Follicular Fluid on Developmental Competence and Gene Expression of in vitro Fertilized Sheep Embryos. *Pakistan journal of zoology* 50, 1267-1277.
18. Swelum, A., Saadeldin, I., Bahadi, M., Afifi, M., **Al-Mutary, M.** & Alowaimer, A., 2018. The effect of heterologous seminal plasma from ram, buck or camel on the freezability of ram semen. *Veterinárni medicína* 63, 500-512.



19. Al-Anazi, Y., **Al-Mutary, M.**, Al-Ghadi, M., Alfuraiji, M., Al-Himaidi, A. & Ammari, A., 2017. Seasonal variations in scrotal circumference and semen characteristics of Naimi and Najdi rams in Saudi Arabia. South African Journal of Animal Science 47, 454-459.
20. Al-Anazi Y, **Al-Mutary M. G**, Alfuraiji M. M, Al-Ghadi M,, Al-Himaidi A. R, Ammari A. 2017. Effect of Ram Breed on the Efficiency of in Vitro Development of Sheep Embryos. Biosci Biotech Res Asia; 14(4): 1309-1313.
21. Mohammed A. Zyadah and **Mohsen G. Al-Mutary**. 2012. Evaluation of Environmental Pollution in the Arabian Gulf Coast at the Eastern Province, SA. Asian Transactions on Basic and Applied Sciences. 2(3):14-21.
22. **Al-Mutary, M.** & Al-Himaidi, R., 2002. Tamoxifen inhibits the migration of the primordial germ cells of the chick embryos with less mortality rate. Pakistan Journal of Biological Sciences 5, 1060-1062.

Research Projects

	Name of Investigators	Supported by	Research Title	Report Date
1	Mohsen G. Al-Mutary	DSR-IAU	Effects of chrysin on Najdi ram sperm quality during refrigerated storage	New project
2	Alshamlih, Mohammed Mohsen G. Al-Mutary	DSR-IAU	Invasive Bird Species in Saudi Arabia: Status and Potential Threats.	2021
3	Mohammed A. Zyadah Mohsen G. Al-Mutary	DSR-IAU	Environmental Pollution in the Arabian Gulf Coast at the Eastern Province.	2012

Contribution to Scientific Conferences

	Conference title	Place and Date of the Conference	Extent of Contribution
1	International embryo transfer Society (IETS) annual conference	USA - January 18-21, 2021 (Virtual)	attendance
2	International conference on education & training evaluation	Riyadh - October, 14-15, 2020 (Virtual)	attendance



3	2 nd Saudi International Conference on Biotechnology – Stem cells technology	KACST - Riyadh - 2016	attendance
4	Saudi Arabia Bioinformatics conference	KACST - Riyadh - 2016	attendance
5	25 th meeting of Saudi Biological Society	KFU- Hafouf – KSA - 2010	attendance
6	Avian Influenza	Riyadh– KSA - 2006	attendance

Symposia, workshops and training

	Title	Organization	Date	Contribution
1	Towards an integrative partnership to accelerate scientific research and discoveries	Ministry of Education	2020	Attendance
2	Developing Core Competencies in Teaching & Learning in Higher Education	DED-IAU	2020	Attendance
3	Teaching and evaluation using the case study	DED-IAU	2020	Attendance
4	Developmental through peer observation of Teaching (POT)	DED-IAU	2020	Attendance
5	Creative thinking	DED-IAU	2020	Attendance
6	Writing systematic literature review	DLA-IAU	2020	Attendance
7	Journal Citation Reports	DSR-IAU	2020	Attendance
8	Flipped Classroom	DED-IAU	2020	Attendance
9	Teaching through learning theories	DED-IAU	2020	Attendance
10	Endnote online	DSR-IAU	2020	Attendance
11	Incites benchmarking and analytics	DSR-IAU	2020	Attendance
12	Advance Multiple Choice Questions to test Higher Order Thinking Skills	DED-IAU	2020	Attendance



13	Analyzing and Reading Test Results	DED-IAU	2017	Attendance
14	In vitro embryo production	Basic sciences department	2016	Speaker
15	Sheep embryo cloning technique	KSU	2014	Participation and supervision
16	Scientific phenomena exhibition	KSU	2013	Participation and supervision
17	Protein purification	KSU	2012	attendance

Membership of Scientific and Professional Societies and Organizations

- International Embryo Technology Society
- Saudi Society for Biological Sciences
- Saudi Association for Health Informatics

Teaching Activities

Course title	No./ Code	The extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
Principles of Zoology	212 BIO	2 Hours (1 Hour Theoretical + 1 Hour Practical)
Principles of Principles in the environment and pollution	404 BIO	2 Hours (Theoretical)
Chordata and Embryology	222 Zoo	1 Hour (Theoretical)



Chordata and Embryology	223 Zoo	2 Hours (Practical)
Animal Physiology	337 Zoo	2 Hours (Practical)
General Biology	100 BIO	2 Hours (1 Hour Theoretical + 1 Hour Practical)

Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)

1. Principles of Zoology - 212 BIO:

Brief description of the content: General Introduction to Zoology - Animal cell structure – Cell division (Mitosis and Meiosis) - Types of animal cells and tissues - Classification of organisms – Feeding methods and elements of food - Structure and function in the human body systems (Digestive – Respiratory – Excretory – Nervous – Hormones)

2. Chordates and embryos – Theoretical – Zoo 222:

Brief description of the content: Chordates (their characteristics and classification)– Cephalochordata (Amphioxus)– Urochordata (*Ascidia*)– Hemichordata (*Balanoglossus*)– Vertebrata (Agnatha) (Hag fish and Lamprey)– Chondrichthyes (Dog fish) – Osteichthyes (*Tilapia nilotica*) – Amphibia (Frog) – Reptilia (*Chalcides ocellatus*) – Aves (Domestic Pigeon) – Mammalia (Rabbit) - Introduction to embryology.

3. Chordates and embryos – Practical – Zoo 223:

Brief description of the content: Samples and sectors of Amphioxus - Samples and sectors of Lamprey-Samples and sectors of dog fish – Dog fish anatomy - *Tilapia nilotica* anatomy – Anatomy of frog and its skeleton system - Anatomy of lizard - Domestic Pigeon anatomy – Rabbit anatomy - Sections at different stages of the life of embryos.

4. Biology 3 (Principles in the environment and pollution) – Theoretical - Biol 404:

Brief description of the content: The concept of ecology and its divisions and fields - The ecosystem and the flow of energy - Biomes and geographical distribution of animals - Adaptations of organisms in different environments - The concept of biodiversity (Biodiversity in some Saudi environments) - Nature protected in Saudi kingdom - The concept of pollution and Pollutants - Types of pollution (Air, Water, Radiation, Noise) -The effects of pollutants - Reduction of pollutants - The concept of geology - Types of minerals and rocks - Earthquakes and volcanoes.



5. **General Biology - 100 BIO:**

Brief description of the content: Characteristics of the living things, cellular organelles, and cell divisions. Living things kingdoms and animal phyla. Some human systems like digestive, circulatory, respiratory, immune, excretory, endocrine, and nervous systems.

6. **Animal Physiology – Practical – 337 Zoo:**

Brief description of the content: Analysis and determination of some biomolecules like carbohydrates, proteins, lipids, and nucleic acids. Collecting blood samples. Determination of RBC, WBC, PCV, Hb and blood groups. Calculating RBC indices (MCV, MCH and MCHC).

Course Coordination

Course Title and Code	Coordination	Undergrad	From	To
Principles in environment and pollution (Biol 404) –Theoretical.	√	√	2019	Now
Principles of Zoology (212 BIOL) –Practical and Theoretical.	√	√	2017	Now

Student Academic Supervision and Mentoring

1	Level	Number of Students	From	To
1	Different levels	9-6-6-5-3	2016	Now

Administrative Responsibilities, Committee and Community Service

1	From	To	Position	Organization
1	2019	Now	Member of the Scholarship Committee	Education college
2	2018	Now	Coordinator of the academic advising committee	Basic science department- Education college
2	2016	Now	Member of the basic sciences department board	Education college



3	2017	2019	Member of the promotion committee	Basic science department- Education college
4	2016	2017	Chairman of the laboratories committee	Basic science department- Education college
5	2009	2010	Member of the teachers' college board	Teachers college
6	2009	2010	Student affairs manager	Teachers college
7	2009	2010	Member of the biology department board	Teachers college
8	2007	2009	Member of the sciences department board	Teachers college

Volunteer Work

1	From	To	Type of Volunteer	Organization
1	2019	-	Reviewer of a research paper	Journal of Systems Biology in Reproductive Medicine
2	2018	-	External reviewer	Research project at Imam Muhammad bin Saud Islamic University -KSA
3	2017	-	External reviewer	Research project at KACST - KSA
5	2017	-	Reviewer of a research paper	South African journal of animal sciences
6	2015	2016	Supervision on laboratories' diploma	Training and Community Service Center, Education college - Dammam
7	2016	2018	Membership	Prince Fahad bin Salman Charitable Society for the care of patients with kidney failure
8	2017	2018	Membership	Charitable Society for the Care of Orphans (Enssan)
9	2017	2019	Membership	Children with Disability Association - KSA



Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

Research skills	Computer programs skills
<ul style="list-style-type: none"> • <i>In vitro</i> production of sheep embryos. 	<ul style="list-style-type: none"> • Microsoft office programs.
<ul style="list-style-type: none"> • Embryos transfer. 	<ul style="list-style-type: none"> • GraphPad Prism program for statically analysis.
<ul style="list-style-type: none"> • Collection, analysis, and storage of semen. 	<ul style="list-style-type: none"> • Endnote program for references citation.
<ul style="list-style-type: none"> • mRNA, cDNA and Real-time PCR procedures 	<p>Awards</p>
<ul style="list-style-type: none"> • Zebra fish breeding. 	<ul style="list-style-type: none"> • Eleven Excellence Awards for scientific publication from DSR.
<ul style="list-style-type: none"> • Histobiochemistry staining of tissues. 	
<ul style="list-style-type: none"> • Samples preparation for fluorescent microscope 	
<ul style="list-style-type: none"> • Mice breeding. 	

Links:

- [ORCID ID: https://orcid.org/0000-0002-9854-5230](https://orcid.org/0000-0002-9854-5230)
- [Researcher ID: AAE-6435-2019](https://orcid.org/0000-0002-9854-5230)
- <https://scholar.google.com/citations?user=aEkyLwsAAAAJ&hl=ar>
- [Scopus: AU-ID \("Al-Mutary, Mohsen G." 57194775714\)](https://scopus.com/authid/detail.url?authorID=57194775714)
- <https://publons.com/researcher/3222784/mohsen-al-mutary/>

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