

# Ali Mahdi Mutlag

Assistant Professor

Vice Chancellor for Administration Affair previously

Wasit University (2021 – Feb. 2025)

PH. D. Histology & Embryology



-Staff member /Department of Pathological  
Analysis, College of Sciences  
-al-Rabyee dist. Kut, Wasit, Iraq  
Phone: +9647723509925

[amutlag@uowasit.edu.iq](mailto:amutlag@uowasit.edu.iq) , [ali.mutlag@starth.ac.uk](mailto:ali.mutlag@starth.ac.uk)

[alimutlag63@gmail.com](mailto:alimutlag63@gmail.com)

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**Research Visitor – Institute of Pharmacy and Biomedical Science – starthclyde  
university - Glasgow**

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## Professional Summary

- Highly skilled researcher with extensive expertise in general histology, histochemistry, and immunohistochemistry.
- Specialized in molecular cell biology and the study of disease mechanisms in laboratory animals, particularly rodents (mice and rats).
- Proficient in anatomical analysis of experimental models and experienced in molecular embryological research.
- Strong background in herbal extraction and the application of natural compounds for the treatment of experimentally induced diseases.
- Cell culture, PCR procedure.
- Well-versed in cell culture techniques, PCR procedures, and a variety of molecular and pathological methods used in cancer research.
- Demonstrates a high level of laboratory proficiency, with a focus on molecular and histopathological characterization of tumors in humans and experimental animals.
- Anatomy specialist of the rodent lab animals (Mice – Rats)

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## Professional Appointments

**University of Wasit** / Assistant professor (2016 – present)

Biology and Anatomy Dep. College of Medicine

**University of Wasit** / Lecturer Jan 2011 – Dec 2016

Biology and Anatomy Dep. College of Medicine

**University of Wasit** / Assistant Lecturer , March 2007 – Jan 2010

Biology and Anatomy Dep. College of Medicine

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## **Education**

**The Graduate School of The Chinese Academy Of Agricultural Sciences (GSCAAS) / PH.D. ( 2011 – 2014 )**

Lanzhou Institute of Husbandry and Pharmaceutical Sciences, GSCAAS, China

**Al-Nahrain University / MSc Anatomy – Histology and Embryology (2004 – 2007)**

Biology and Anatomy Dep. College of Medicine , Al-Nahrain University , Iraq

**University of Baghdad/ DVM (1998 – July 2003)**

College of Veterinary Medicine, University of Baghdad , Iraq

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## **Experiences**

**Teaching:** Since 2007 involved in the teaching Histology subject for undergraduate students of the first and second classes (theory and practical sessions), and Embryology for the undergraduate students of second class (theory and practical sessions), Teaching the practical subject of physiology of Master science students , College of Sciences , Wasit University.

I am expert in immunohistochemistry work and histochemistry work of different parameters, familiar of operation of machines interfere with histology work and cytology and chemistry include all machines and instruments of slides preparations and staining, PCR, Florescence expression.

Have knowledge in the histopathology work related with diseases induction and progression and methods to finds the treatment, the experience in the molecular cell biology work and most equipment's related to this work.

I am expert in the embryology work, include the all step from gametes preparation and gestation period, IVF, ICSI, cell biopsy also the principles of Time-Lapse imaging system of embryology.

I have the principles of using the Python program in bioinformatics.

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## **Publications**

1. Allami R.A., Mutlag A.M.: Correlation between HMGB1 Expression and Cholecystokinin Levels in Patients with Gallbladder Disorders. *Iranian Journal of War & Public Health* 2025;17(2):103-112
2. Raghad A. Allami<sup>1</sup>, Ali M. Mutlag<sup>2</sup>, Faris lutfi Nussrat Al- Imami<sup>3</sup>: Histopathological and Immunohistochemical Expression of Ki-67 and Alpha-Fetoprotein as Indicators in Various Gallbladder Diseases. *Journal of Neonatal Surgery*. 14(15), 2025

3. Mutlag A M, Wang X, Yang Z, Meng J, Wang X, Zhang J, Qin Z, Wang G, Li J. Study on matrix metalloproteinase 1 and 2 gene expression and NO in dairy cows with ovarian cysts. *Animal Reproduction Science* [2015, 152:1-7]
4. Ali Mahdi Mutlag, Yang Zhiqiang, Meng Jiaren, Zhang Jingyan, Li Jianxi . Investigation the Difference of Several Hormones Correlated to Reproduction between Infertile and Fertile Dairy Cows. *World Academy of Science, Engineering and Technology International Journal of Biological Science and Engineering* Vol:7 No:12, 2013.
5. Ali Mahdi Mutlag, Yang Zhiqiang, Meng Jiaren, Wang Xurong, Zhang Jingyan, Wang Gui Bo, Li Jianxi. Investigation of ovarian matrix metalloproteinase (MMP) 1, 2 and total nitric oxide (NO) in infertile dairy cows. 2012, *J. International Academic Research for Multidisciplinary*, Volume 2(1), 2014.
6. Falah Abdulhadi, Ali Mahdi Mutlag. Histopathological alterations in the stomach of rats after gavage ethanol. 2021.
7. Ali Mahdi Mutlag. Apoptosis demonstration of renal tubule by acridine orange method. *Wasit J. of Science and Medicine*. 2008, number 2.
8. Ali M. Mutlag, Naseer K. Jawad, Musaab Habib. Evaluation of total sialic acid and lipid association sialic acid in type II diabetic patients. Second conference of Wasit University.
9. Ali M. Mutlag. Effect of gentamicin on the histology of renal tubules in different doses, Experimental study. 2009. First conference of Medical college, Al-Qadisiya Uni.
10. Ali M. Mutlag and Jassim H. Mukharmash. Total Nitric Oxide (NO) and Immunohistochemical Demonstration Of Nitric Oxide Synthase (NOS) In Pancreatic Tissue Of Rats With Induced Diabetes Mellitus By Alloxan. *IJAPBC – Vol. 6(1)*, Jan - Mar, 2017
11. Ali M. Mutlag . Immunohistochemical and qReal time – PCR Expression of Matrix Metalloproteinase (MMP-2) in Testes of Male Wister Rats after Cadmium Chloride (CdCl<sub>2</sub>) exposure. 2019. *Elixir International Journal*. 98 (2016) 42559-42562 .
12. Jassim H. Mukharmash, Ali M. Mutlag and Saadoon A. Abdul-Rudha. Epidemiological survey for the identification and diagnosis of viral hepatitis B and C, using Enzyme Linked Immunosorbent Assay (ELISA) technique at Al-Kut city/Iraq, and the surrounding area. *IJAPBC – Vol. 6(3)*, Jul - Sep, 2017
13. Ali Mahdi Mutlag, Yang Zhiqiang, Meng Jiaren, Wang Xurong, Zhang Jingyan, Wang Gui Bo, Li Jianxi. Investigation of ovarian matrix metalloproteinase (MMP) 1, 2 and total nitric oxide (NO) in infertile dairy cows. 2012, *J. International Academic Research for Multidisciplinary*, Volume 2(1), 2014.
14. Falah Abdulhadi, Ali Mahdi Mutlag. Histopathological alterations in the stomach of rats after gavage ethanol. *NVEO*, 2022, 9(1).
15. Esraa Abdul Khaliq, Ali Mahdi Mutlag. Histological and chronological study of fibroblast growth factor-2 (FGF-2) role on muscle growth in domestic broiler chicken. *turkish journal of physiotherapy and rehabilitation*. 2022, 32(3)
16. Esraa Abdul Khaliq, Ali Mahdi Mutlag. Histological and chronological study of Myostatin (MSTN) role on muscle growth in domestic broiler chicken. *International journal of health sciences*. 2022, 6(S3)
17. Noor Bassem, Ali Mahdi Mutlag, Zainab Abbas. Immunohistochemical demonstration of Calretinin in Breast cancer. *Jundishapur journal of Microbiology*. 2022.
18. Noor Bassem, Ali Mahdi Mutlag, Zainab Abbas. Immunohistochemical demonstration of S100 in Breast cancer. *NeuroQuantology*. 2022
19. Noor abbas Farhan, Ali Mahdi Mutlag, Zainab Abbas. Histopathological and Immunohistochemically expression of S100 in thyroid tumors. *Annals of Forest research*. 2022, vol 65
20. Noor abbas Farhan, Ali Mahdi Mutlag, Zainab Abbas. Histopathological and Immunohistochemically expression of Calretinin in thyroid tumors. *Azerbaijan Medical Journal*. 2022

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## Certificate of participation

- Certificates passing the Biological safety training (modules 1,2,3,4), starrhlyde University. Glasgow
- International Kylv PCR training , November 29-30, 2022 – AniCon labor, Holtinghausen, Germany
- 2<sup>st</sup> conference of college of literature. Wasit University. 2018
- The workshop of (the Holy grail of gametes and embryo assessment), Nice, **France**, 2018.
- Workshop (Optimal Literature search, quality research and publication) , College of education, **Wasit University**, 2018
- 1<sup>st</sup> conference of pathological analysis department, Al-kut Technical institute. 2019
- New methods of ART technology, institute of embryo and infertility treatment, Al-Nahrain University. 2009
- 1<sup>st</sup> medical conference / College of medicine / Al-Qadisiya university. 2010
- International conference of animal and veterinary sciences. Penang, Malaysia, **2013**
- (1<sup>st</sup> prize) in Second Sheng-tongsheng cup speech competition and the third youth science forum. 2012. Lanzhou institute of husbandry and pharmaceutical sciences. CAAS

## Work positions

1. Vice Chancellor of Wasit University for Administration Affairs (2021 – present)
2. Head of histology and embryology department / College of Medicine / Wasit University . 2008
3. Head Studies, Planning and fellow-up department / wasit university, 2008 - 2010
4. Head Anatomy and Biology Department / College of Medicine / Wasit University, 2014.
5. Deputy Dean / College of Dentistry / Wasit University 2014 – 2015.
6. Head research and higher education department / wasit university, 2015 - 2018
7. Deputy Dean / College of Dentistry / Wasit University 2018
8. Tutor at College of Sciences / Wasit University
9. Staff Deputy Dean / College of Dentistry / Wasit University
10. Staff member /Department of Biology and Anatomy