

Aiman Ibraheem Al-Qtaitat, PhD

Professor of Anatomy & Histology Dean, Faculty of Dentistry, Mutah University



Contact Information

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ACADEMIC LEADERSHIP & APPOINTMENTS

- **Dean**, Faculty of Dentistry, Mutah University (Sep 2024 – Present)
 - **Dean**, Faculty of Dentistry, Zarqa University (Sep 2022 – Sep 2024)
 - **Vice Dean**, Faculty of Medicine, Mutah University (Sep 2021 – 2022 & Sep 2017 – Sep 2018)
 - **Head of Department**, Anatomy and Histology, Faculty of Medicine, Mutah University (Sep 2013 – Aug 2015)
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ACADEMIC RANK

- **Professor**, Faculty of Medicine, Mutah University (June 2021 – Present)
 - **Associate Professor**, Mutah University (June 2016 – 2021)
 - **Assistant Professor**, Mutah University (Dec 2007 – June 2016)
 - **Anatomy Instructor**, School of Biomedical Science, University of Leeds, UK (Oct 2005 – June 2007)
 - **Part time lecturer**, Zarqa Private Collage, Jordan (Sep 1998- May 2000)
 - **Private Dental Practice**, Zarqa, (Jan 1994-Jan 2004)
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EDUCATION

- **PhD in Anatomy and Histology**, School of Biomedical Sciences, University of Leeds, England (2007).
 - *Thesis:* The Mineral Phase: Calcified Microspheres Populations in Young and Ageing, Hard and Soft Tissues
 - **MSc in Anatomy and Histology**, University of Leeds, England (2004)
 - *Thesis:* Anatomy of Sharpey's fibres and their calcification with age
 - **Bachelor of Dental Surgery (BDS)**, Faculty of Dentistry, University of Jordan, Jordan (1993).
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TEACHING EXPERIENCE

Courses Taught (Faculty of Medicine):

- **First Year:** Cell Biology, General Histology, Practical Histology, Medical Terminology, General Anatomy, General Embryology
 - **Second Year:** Histology of Musculoskeletal, Endocrine, and Digestive Systems
 - **Third Year:** Histology of Cardiovascular, Respiratory, and Central/Peripheral Nervous Systems
 - **Allied Health:** General Anatomy for Nursing and Pharmacy
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RESEARCH INTERESTS

- Bone research, aging, and connective tissue diseases (Arthritis, Osteoporosis)
 - Non-collagenous proteins and biomarkers in calcified tissues
 - Immunohistochemistry and Histological alterations in reproductive health (PCOS, Endometrial hyperplasia)
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SELECTED PUBLICATIONS

1. Al Shawawreha, M. D., Al-Qaraleh, S. Y., Alqtaitat, A. A., Alqaraleh, S. S., & **Al-Qtaitat, A. (2026)**. Exploring the relationship between trace mineral imbalance and hematological alterations in thalassemia. *Research Journal of Pharmacy and Technology*, 19(9). (Accepted).
2. Al-Qaraleh, S. Y., Al-Zereini, W. A., Oran, S. A., Al-Madanat, O. Y., **Al-Qtaitat, A. I.**, & Alahmad, A. (2024). Enhanced anti-breast cancer activity of green synthesized selenium nanoparticles by PEGylation: Induction of apoptosis and potential anticancer drug delivery system. *Advanced Natural Sciences: Nanoscience and Nanotechnology*, 15, 025006. <https://doi.org/10.1088/2043-6262/ad4bae>
3. Hudu, S. A., Jimoh, A. O., **Alqtaitat, A.**, & Elmigdadi, F. (2024). The role of seasonal influenza in compounding the outbreak of infectious diseases: A critical review. *Biomedical & Pharmacology Journal*, 17(1).
4. Alzyoud, J. A. M., Rababah, E., Almuhausen, M. H. O., & **Al-Qtaitat, A. I. (2024)**. Bone age determination of epiphyseal fusion at knee joint and its correlation with chronological age. *Medicina*, 60, 779.
5. Samer Y. Alqaraleh; Wael A. Al-Zereini; Nesrin R. Mwafi; Sahar M. Jaffal; **Aiman I. Al-Qtaitat. (2024)**, The green synthesis of selenium nanoparticles: a comprehensive review on methodology, characterization, and biomedical applications. *Research Journal of Pharmacy and Technology*. 17, (8). <https://doi.org/10.52711/0974-360X.2024.00629>
6. Alzyoud, J. A. M., Rababah, E., & **Al-Qtaitat, A. (2024)**. Mandibular incisive canal morphometry: A cone-beam computed tomography study in Jordan. *International Journal of Morphology*, 42(2), 317–323.

7. Abdel Kareem, H. M., **Al-Qtaitat, A. I.**, Sawaqed, F. S., & Karawya, F. S. (2023). Urinary NDRG2 and MCM8 gene expression as new noninvasive biomarkers for diagnosis and differentiation between muscle and non-muscle invasive bladder cancer. *Biomedical & Pharmacology Journal*, 16(1), 549–558.
8. Hudu, S. A., Elmigdadi, F., **Al-Qtaitat, A.**, Almeshmadi, M., Alsaiani, A. A., Allahyani, M., Aljuaid, A., Salih, M., Alghamdi, A., Alrofai, M. A., Abida, & Imran, M. (2023). Trofinetide for Rett syndrome: Highlights on the development and related inventions of the first USFDA-approved treatment for rare pediatric unmet medical need. *Journal of Clinical Medicine*, 12, 5114.
9. Al-Saraireh, Y. M., Alshammari, F. O. F. O., Abu-Azzam, O. H., Al-Dalaie, S. M., Al-Sarayra, Y. M., Haddad, M., Makeen, H., **Al-Qtaitat, A.**, Almermesh, M., & Al-Sarayreh, S. A. (2023). Targeting cytochrome P450 enzymes in ovarian cancers: New approaches to tumor-selective intervention. *Biomedicines*, 11, 2898.
10. Hudu, S. A., Alshrari, A. S., **Al-Qtaitat, A.**, & Imran, M. (2023). VP37 protein inhibitors for mpox treatment: Highlights on recent advances, patent literature, and future directions. *Biomedicines*, 11, 1106.
11. Hegazy, A. A., **Al-Qtaitat, A. I.**, & Hegazy, R. A. (2023). A new hypothesis may explain human parthenogenesis and ovarian teratoma: A review study. *International Journal of Reproductive BioMedicine*, 21(4), 277–284.
12. Alzyoud, J., Omoush, S., & **Al-Qtaitat, A.** (2022). Photobiomodulation for tendinopathy: A review of preclinical studies. *Photobiomodulation, Photomedicine, and Laser Surgery*, 40(6), 370–377.
13. Albtoosh, A., Karawya, F., Al-Naymat, W., & **Al-Qtaitat, A.** (2021). Potential protective effect of *Spirulina platensis* on sodium arsenite-induced cardiotoxicity in male rats. *Tissue Barriers*, Article 1983330.
14. **Al-Qtaitat, A.**, Al-Dalaie, S., Albtoosh, A., & Karawya, F. (2020). Preventive effects of dietary raisins on steroid-induced bone changes in rats. *Biosciences Biotechnology Research Asia*, 17(4), 809–817.
15. **Al-Qtaitat, A.**, Mwafi, N., Albtoosh, A., & Al-Dalaie, S. (2020). The possible ameliorating and antioxidant effects of curcumin against cyclosporine-induced renal impairment in rats. *Bulletin of Environmental Pharmacology and Life Sciences*, 9(8), 87–93.
16. Farhan, S. S., Al-Jewari, W. M., Afar, A. Q., & **Al-Qtaitat, A.** (2020). Anthropometric study of nose parameters in Iraqi Arabic and Kurdish subjects: A possible personal identification tool. *Indian Journal of Forensic Medicine & Toxicology*, 14(2), 1976–1982.
17. **Al-Qtaitat, A.**, Mwafi, N., Albtoosh, A., & Al-Dalaie, N. (2020). A new tool for early diagnosis of rheumatoid arthritis using combined biomarkers: Synovial MAGE-1 mRNA and serum anti-CCP and RF. *Pan African Medical Journal*, 36, 270.
18. **Al-Qtaitat, A.**, Al-Maathidy, A., Farhan, S. S., Almuhaissen, G., & Alzyoud, J. (2020). The possible protective effect of fresh beetroot juice against paracetamol-induced hepatotoxicity in adult albino rats. *International Journal of Pharmaceutical Sciences and Research*, 11(2), 844–852.
19. Al-Maathidy, A., Farhan, S. S., Alzyoud, J., & **Al-Qtaitat, A.** (2019). The possible protective effect of *Moringa oleifera* leaf on amiodarone-induced pulmonary alveolar toxicity in rats. *Indo American Journal of Pharmaceutical Sciences*, 6(5), 10081–10089.

20. Al-Maathidy, A., Alzyoud, J. A. M., Al-Dalaen, S., & **Al-Qtaitat, A.** (2019). Histological alterations in the thyroid follicular cells induced by lead acetate toxicity in adult male albino rats. *International Journal of Pharmaceutical and Phytopharmacological Research*, 9(5), 19–26.
21. Al-Maathadi, A., Farhan, S., Alzyoud, J., & **Al-Qtaitat, A.** (2019). The possible protective effect of *Panax ginseng* on colchicine-induced myopathy in adult male albino rats. *Internet Journal of Medical Update*, 14(1), 11–17.
22. Farhan, S. S., Al-Jewari, W. M., Afar, A. Q., & **Al-Qtaitat, A.** (2019). Morphological assessment of ear auricle in a group of Iraqi subjects and its possible role in personal identification. *Italian Journal of Anatomy and Embryology*, 124(3), 432–442.
23. **Al-Qtaitat, A.**, Farhan, S. S., Al-Maathidy, A., Almuhaissen, G., & Alzyoud, J. (2019). Potential protective effect of pomegranate (*Punica granatum*) juice on monosodium glutamate-induced seminiferous tubules changes in adult male albino rats. *Biosciences Biotechnology Research Asia*, 16(3), 625–636.
24. Al-Jefout, M., **Al-Qtaitat, A.**, Al-Rahal, D., & Al-Nawaiseh, N. (2018). Endometrial thickness as a predictor of endometrial hyperplasia in infertile patients with polycystic ovary syndrome. *Open Journal of Obstetrics and Gynecology*, 8, 92–104.
25. Al-Jefout, M., Alnawaiseh, N., & **Al-Qtaitat, A.** (2017). Insulin resistance and obesity among infertile women with different polycystic ovary syndrome phenotypes. *Scientific Reports*, 7, 5339. <https://doi.org/10.1038/s41598-017-05717-y>
26. Al-Dalaen, S., **Al-Qtaitat, A.**, Al-Rawashdeh, M., & Alzyoud, J. (2016). Rheumatoid arthritis: Hyaluronic acid and cartilage oligomeric matrix protein as predictors of disease progression. *Biomedical & Pharmacology Journal*, 9(1), 15–23.
27. **Al-Qtaitat, A.**, Alzyoud, J., Al-Rawashdeh, M., Al-Dalaen, S., & Al-Maathadi, A. (2016). Bone age determination of epiphyseal union around wrist joint and its correlation with chronological age: A radiological study in a Jordanian population. *Biosciences Biotechnology Research Asia*, 13(1), 67–73.
28. Al-Dalaen, S., Alzyoud, J., & **Al-Qtaitat, A.** (2016). The effects of L-arginine in modulating liver antioxidant biomarkers within carbon tetrachloride-induced hepatotoxicity: Experimental study in rats. *Biomedical & Pharmacology Journal*, 9(1).
29. **Al-Qtaitat, A.**, Al-Dalaen, S., Mahgoub, S., Alnawaiseh, N., Al-Shuneiqat, J., Al-Sarayreh, S., & Al-Saraireh, Y. (2015). Plasma thrombopoietin level in thrombocytopenic patients with or without liver cirrhosis chronically infected by the hepatitis C virus. *British Journal of Medicine & Medical Research*, 5(7), 864–871.
30. Al-Shuneigat, J., Al-Sarayreh, S., Al-Qudah, M., Al-Tarawneh, I., Al-Saraireh, Y., & **Al-Qtaitat, A.** (2015). GC-MS analysis and antibacterial activity of the essential oil isolated from wild *Artemisia herba-alba* grown in South Jordan. *British Journal of Medicine & Medical Research*, 5(3), 297–302.
31. **Al-Qtaitat, A.**, & Al-Dalaen, S. (2014). A review of non-collagenous proteins: Their role in bone. *American Journal of Life Sciences*, 2(6), 351–355.
32. Al-Dalaen S, **Al-Qtaitat A.** (2014). Review Article: Oxidative stress versus antioxidants. *American Journal of Bioscience and Bioengineering*, 2(5): 60-71
33. **Al-Qtaitat, A.**, Al-Dalaen, S., Mahgoub, S., Al-Rawashdeh, M. D., & Aaron, J. E. (2014). Bioactive propolis and bone loss reduction in an ovariectomized rat model of hypogonadal osteoporosis. *American Journal of BioScience*, 2(6), 217–221.

34. Al-Dalaen, S., & **Al-Qtaitat, A. (2014)**. Oxidative stress versus antioxidants: A review. *American Journal of Bioscience and Bioengineering*, 2(5), 60–71.
 35. Al-Dalaen, S., **Al-Qtaitat, A.**, Mahgoub, S., Alnawaiseh, N., Shniqat, J., Sarayreh, S., & Sarayreh, Y. (2014). Ramipril and valsartan as protective agents against some complications of an experimentally induced obesity in rats. *American Journal of Life Sciences*, 2(4), 241–250.
 36. Al-Dalaen, S., Mahgoub, S., & **Al-Qtaitat, A. (2014)**. Carcinogen metabolizing enzymes: Modulation of their activities in liver, lung and stomach by thymoquinone. *European Journal of Medicinal Plants*, 4(4), 383–393.
 37. **Al-Qtaitat, A. I.**, Shore, R. C., & Aaron, J. E. (2010). Structural changes in the ageing periosteum using collagen III immunostaining and chromium labelling as indicators. *Journal of Musculoskeletal and Neuronal Interactions*, 10(1), 112–123.
 38. **Al-Qtaitat, A. I.**, Shore, R. C., & Aaron, J. E. (2006). Calcification of Sharpey's fibres and periosteum with age in the porcine mandible. *Calcified Tissue International*, 78(Suppl. 1), S17–S167.
 39. **Al-Qtaitat, A. (2006)**. Calcified microsphere populations in young and aging, hard and soft tissues. *Postgraduate Symposium, Faculty of Biological Sciences, University of Leeds. Oral presentation.*
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PROFESSIONAL SERVICE & COMMITTEES

National Level

- **Member**, National Human Resources in Health (HRH) Observatory Team, The High Health Council of Jordan.

University Level (Mutah University)

- **Chair**, Faculty of Medicine Technical Tender Committee.
- **Member**, Faculty of Dentistry Establishing Committee.
- **Member**, Jordan Centre of Medical and Pharmacological Research Foundation Committee.
- **Member**, Computer-Based Examination Centre Foundation Committee.

Faculty Level (Medicine & Dentistry)

- **Chairman**, Medical and Scientific Laboratory Progress Committee.
- **Chairman**, Research and Laboratory Committee.
- **Member**, Faculty of Dentistry Temporary Board Committee.
- **Member**, Scientific and Research Committee, Faculty of Medicine.
- **Member**, Advances in Medical Education Committee.
- **Member**, Accreditation Committee.
- **Member**, E-learning Committee.
- **Member**, Conferences and Training Programs Committee.
- **Member**, Faculty of Medicine Regulations Committee.

- **Member**, Symposium Scientific Committee.
- **Member**, Audio-Visual Committee.

PROFESSIONAL MEMBERSHIPS

- **Member**, Jordan Dental Association (1993 – Present)
- **Member**, Bone and Joint Research Group, University of Leeds, UK (2004 – 2008)
- **Member**, [Insert Name of Society for 2004-now if applicable] (2004 – Present)

PROFESSIONAL DEVELOPMENT & TECHNICAL TRAINING

Advanced Microscopy & Imaging

- **Transmission and Scanning Electron Microscopy (TEM/SEM):** Intensive training program, Department of Oral Biology, University of Leeds, UK (2004).
- **Confocal Laser Scanning Microscopy (CLSM):** Specialized training program, Department of Oral Biology, University of Leeds, UK (2004).
- **GCMS Operation Training:** Shimadzu Middle East and Africa FZE, Istanbul, Turkey (June 16–20, 2014).

Laboratory & Histological Techniques

- **Immunohistochemistry (IHC) Staining:** Advanced techniques program, School of Biomedical Sciences, University of Leeds, UK (2004).
- **Tissue Preparation & Microscopic Examination:** Comprehensive staining techniques, School of Biomedical Sciences, University of Leeds, UK (2004).

Bioethics & Research Governance

- **Research Ethics / Basic Course for IRB/REC Members:** Specialized workshop for Institutional Review Boards and Research Ethics Committees, Amman, Jordan (March 18–22, 2012).

Medical Education & E-Learning Technology

- **Moodle Authoring:** Organized by Content Development Solution (CDS), Mutah University (May 17–26, 2009).
- **Moodle Education Portal:** Faculty Development Center, Mutah University (April 12–28, 2009).

REFEREES

- Dr. Jean Aaron, University of Leeds, UK (j.e.aaron@leeds.ac.uk)
- Prof. Nedal Al-Hawamdeh, Vice President, Mutah University (nhawam@hotmail.com)
- Prof. Mahmood Hayawi Hammash, Al-Ahliyya Amman University (drhamash@yahoo.com)