



CURRICULUM VITAE

Personal Data

NAME: Darwish Hasan Darwish Badran

DATE OF BIRTH: 30 / September / 1955

PLACE OF BIRTH: Damascus / Syria

NATIONALITY: Jordanian

MARITAL STATUS: Married, 3 children
- Aseel D.O.B. 04th April 1991 (Female)
- Hasan D.O.B. 23rd May 1994 (Male)
- Mohammed D.O.B. 15th July 2001 (Male)

PRESENT POST: * **President**
Ibn Sina University for Medical Sciences
Tel: (00-962-6) 4795555
Fax: (00-962-6) 479 5551
Mobile: (00-962-79) 5641188
Email:
dhbadran@isums.edu.jo
darwishbadran@gmail.com
dhbadran@ju.edu.jo

QUALIFICATIONS:

* The Certificate of Jordan Medical Council in Anatomy and Histology (1996)

* **PhD (1992)** Department of Anatomy
Faculty of Medicine
University of Glasgow
Scotland, U.K.

Title of the Ph.D. thesis:

An Investigation of the Behaviour of the Epithelium of Radial Forearm Flaps Transplanted into the Oral Cavity.

Supervised by: The Late Professor R. J. Scothorne (Regius Professor of Anatomy and Head of the Department of Anatomy, University of Glasgow).

* **M.B.; Ch.B. (1979)** Faculty of Medicine
Tanta University, Egypt.

Courses and Workshops:

- * **Technology of Learning.** (3 credit hours).
- * **Methods of University teaching.** (3 credit hours).
- * **Seminar in Development.** (3 credit hours).
- * **Seminar in Counseling and Guidance.** (3 credit hours).
- * **Theories of Change and Educational Leadership.** (3 credit hours).
- * **Seminar in Problems of University Teaching.** (3 credit hours).
- * **Curriculum design and Evaluation.**
- * **Workshop on time management.**
- * **Flap course:** Organized by the Department of Anatomy / Glasgow University and Canniesburn Hospital.
- * **Expanding horizons in problem-based learning:** Workshop organized by Maastricht University/Netherlands.
- * **Training of Trainers:** A course organized by the Centre for Consultation, Technical Services and Studies, at the University of Jordan (18 hours).
- * **Leadership for Health Professionals:** A course organized by the Center for Educational Development, University of Jordan.
- * **Several courses in curriculum planning, assessment, medical education and computers.**
- * **Problem-Based Learning:** Organized by the WHO, Faculty of Medicine, and Center for Educational Development.
- * **Competing Globally in Higher Education: Training on QA and Accreditation:** A 2 days course organized by the Higher Education Accreditation Commission and Columbia University, Middle East Research Center.

Working Experience:



September 2022-

**President
Ibn Sin University for Medical Sciences
Amman,
Jordan**



September 2020- September 2022

**Professor of Anatomical Sciences
Department of Anatomy and Histology
School of Medicine
The University of Jordan**



September 2016- September 2020

**Dean, Faculty of Medicine
The Hashemite University
Zarka
Jordan**



September 2015

**Professor of Anatomical Sciences
Department of Anatomy and Histology
School of Medicine
The University of Jordan**



September 2013 – September 2016

**Vice Dean
Faculty of Medicine
The University of Jordan**



June 2010- Now

Examiner in Anatomy, Royal College of Surgeons in Ireland (Examiner No. 2249)



October 2006- Now

**Lecturer and Examiner in Anatomy,
German Board of Oral Implantology**



January 2005 – September 2015

**Associate Professor
Department of Anatomy and Histology
Faculty of Medicine,
The University of Jordan**



December 2003 – September 2013

**Director,
Centre for Educational Development
The University of Jordan**



September 2002 – September 2004

**Assistant Dean for Training and
Teaching Technology
Faculty of Medicine
The University of Jordan**



September 2000 – September 2002

**Assistant Dean for community service
Faculty of Medicine
The University of Jordan**



November 1998 – September 2000

**Acting Chairman of the Department of Anatomy
and Histology
Faculty of Medicine
The University of Jordan**



September 1997- November 1998

**Assistant Dean for Students Affairs and
Examinations
Faculty of Medicine
The University of Jordan**



***October 1992- September 1993
April 1997- September 1997***

**Part Time Lecturer in Anatomy &
Histology
Al-Isra Private University, Amman, Jordan**



February 1992- January 2004

**Assistant Professor
Department of Anatomy and Histology
Faculty of Medicine,
The University of Jordan**



April 1989-March 1991

**Honorary Registrar in Plastic and
Reconstructive Surgery & Radiotherapy.
Canniesburn Hospital, Glasgow
U.K.**



October 1988-January 1992

**Postgraduate Research Fellow
Department of Anatomy,
University of Glasgow, U.K.**



*August 1984 –
October 1988*

Teaching and Research Assistant.
Department of Anatomy and Histology
Faculty of Medicine,
The University of Jordan.



July 1982-August 1984

Resident in Plastic and Reconstructive Surgery,
Jordan University Hospital.



June 1981-July 1982

Resident in General Surgery
Jordan University Hospital.



*February 1980 –
March 1981*

House officer,
Al Minshawy General Hospital
Tanta - Egypt.

Publications:

Google Scholar:

[https://scholar.google.com/citations?hl=en&user=HYDp2pUTIJMC&view_op=li
st works&sortby=pubdate](https://scholar.google.com/citations?hl=en&user=HYDp2pUTIJMC&view_op=list_works&sortby=pubdate)

orcid.org/0000-0002-8117-1762

ResearcherID: G-5041-2015

Scopus Author ID: 6602924152

Research ID: <https://researchid.co/admin/editdata.php>

National Researchers Database Number: 113

- 1) **Darwish Badran**, Ziad Shraideh, Amira Adly Kassab, Ahmed Alzbeede (2026). The Joint Role of Resveratrol and Curcumin Against Nephrotoxicity and Hepatotoxicity of Narghile Smoking in Mice: Microscopic and Biochemical Insights. Egyptian Journal of Histology; 49(2): 478-487.
DOI: [10.21608/ejh.2025.428047.2336](https://doi.org/10.21608/ejh.2025.428047.2336)
https://ejh.journals.ekb.eg/article_467141.html
- 2) Noha Ramadan Elswaidy, Hend Ibrahim Abd El Halim, Nema Soliman, Amira Adly Kassab, and **Darwish Badran** (2026) The Therapeutic Potential of the Preconditioned Peripheral Blood Mononuclear Cells on Sciatic Nerve Injury in a Diabetic Rat Model. Egyptian journal of Histology. 49(1): 1-13
DOI:10.21608/ejh.2025.353989.2204
[https://ejh.journals.ekb.eg/article_414336_4efeda97f92e3f2aba45dc76082090af.pdf#
page=1.00&gsr=0](https://ejh.journals.ekb.eg/article_414336_4efeda97f92e3f2aba45dc76082090af.pdf#page=1.00&gsr=0)

- 3) **Darwish Badran**, Ayman Agroudy, Amira Adly Kassab,, Shaimaa Mohammed Zaher, Noha Ramadan Mohammed Elswaidy (2026). The Mitigating Ability of Propolis on Oxidative Stress and Pathological Changes Induced By Copper Oxide Nanoparticles in Rat Spleen: A Histopathological and Biochemical Study. Egyptian Journal of Histology. 49(1): 405-418.
DOI: 10.21608/ejh.2025.396785.2290
https://ejh.journals.ekb.eg/article_461637_d1e6ff09dc04aeff7d3eb4d62920190a.pdf#page=1.00&gsr=0

- 4) Amira Adly Kassab, Hani Ayman Alajou, Hadi Ali Alshihmani, Layan Suliman Hussein, Dareen Mahmoud Nofal, Zain Said Al-moudi, Leen Yousef Alkhateeb, Haneen Mustafa Alnasaa, Asmaa Mohamed Kharsa, Lara Mazen Aljabaly, Ruba Ahmad Alslehat, Adel Mohamed Aboregela, **Darwish Badran** (2026). Efficacy of Pumpkin Seed Oil on Paclitaxel-Induced Tongue Mucosal Injury in Rat: Structural and Biochemical Insights. Tissue and Cell; 99: 1-10.
<https://doi.org/10.1016/j.tice.2026.103314>
<https://www.sciencedirect.com/science/article/pii/S0040816626000066?dgcid=coauthor>

- 5) **Darwish Badran**; Ayman Agroudy; Amira Adly Kassab; Shaimaa Mohammed Zaher; Noha Ramadan Mohammed Elswaidy (2025) The mitigating ability of propolis on oxidative stress and pathological changes induced by copper oxide nanoparticles in rat spleen: A histopathological and biochemical study. Articles in Press, Accepted Manuscript, Available Online from 24 October 2025
DOI: [10.21608/ejh.2025.396785.2290](https://doi.org/10.21608/ejh.2025.396785.2290)

- 6) Shatarat, Amjad T, Altarawneh, Islam A., Alnsour, Amneh; Alessa, Malak S, Jaafreh, Sallam Atalla, Yanes, Haya J, Alsukhni, Ala'a M, Salameh, Muna A' Elmegarhi, Sara S, **Badran, Darwish H** (2025). Do we have a Dorsal Venous Arch on the Dorsum of the Hand? Journal of the Anatomical Society of India 74(3): 258-262. DOI: 10.4103/jasi.jasi_2_24
https://journals.lww.com/joi/fulltext/2025/07000/do_we_have_a_dorsal_venous_arch_on_the_dorsum_of.13.aspx?context=latestarticles

- 7) A. Alsarhana, J. D. Al-Shawabkeha, N. M. F. Abu Labana, S. K. Ababnheha, Z. Shraidehb, **D. Badran**, O. Odata, G. Mansoura, A. K. Alkhawaldeha and N. Sultanad (2025). Ameliorating Effects of Ascorbic acid and Ammi Visnaga Seeds on Cigarette and Water- pipe smoking Cytotoxicity in the Lung and Heart ventricle: Effects of Ammi and Vitamin C on smoking in lung and heart. Brazilian Journal of Biology; 85: 1-15. <https://doi.org/10.1590/1519-6984.290032>
[SciELO Brazil - Ameliorating effects of Ascorbic acid and Ammi Visnaga seeds on cigarette and water- pipe smoking Cytotoxicity in the lung and heart ventricle](https://doi.org/10.1590/1519-6984.290032)
[Ameliorating effects of Ascorbic acid and <i>Ammi Visnaga</i> seeds on cigarette and water- pipe smoking Cytotoxicity in the lung and heart ventricle](https://doi.org/10.1590/1519-6984.290032)

- 8) Osama Samara, Feras Al Khatib, Ruba Braik, Tariq Alsayouri, Abdallah Al-Qawasmeh, Osama Afaneh, Nosaiba Al Ryalat, **Darwish Badran**, Amjad Shatarat (2025). Cross-sectional Study of the Anatomic Variation of Brachial Plexus' Nerve Roots Origin in Jordan: Prefixed and Postfixed. Jordan Medical Journal; 59(1): 183-193. <https://doi.org/10.35516/jmj.v59i1.2033>
- 9) A.T. Shatarat, A.M. Shurrah, H.M. Al-lahham, N.A. Tarboush, **D.H. Badran**, M.A. Salamehb, R. Badran (2025) Irisin Modulates Perivascular Adipose Tissue Structure In Rat Thoracic Aorta. Morphologie. <https://doi.org/10.1016/j.morpho.2025.100955>
<https://www.sciencedirect.com/science/article/abs/pii/S1286011525000074>
- 10) Muawyah Al Bdour, Dima Abu Nasrieh, Farah Al Omari, Walid Mahafzah, Darwish Badran, Abdul Hakeem AL-Obaidy, Saif Aldeen AlRyalat (2025). Morphometric analysis of orbital CT scan in a Jordanian sample. Expert Review of Ophthalmology; Vol 20(3). <https://doi.org/10.1080/17469899.2023.2296882>
<https://www.tandfonline.com/doi/abs/10.1080/17469899.2023.2296882>
- 11) Ruba Ahmad Alslehat, Amjad T. Alshatarat, Osama A. Samara, **Darwish H. Badran** (2024). Morphometry of the Bicipital Groove Revisited: A Radiographic Study. National Journal of Clinical Anatomy; 13: 168-174. Doi: https://doi.org/10.4103/NJCA.NJCA_121_24
- 12) Ghazi F. Sharkas, Ragaa El-Masry, Sameh Abdel-Ghany, Ayman El Baz, Tamer Abou-Elsaad, Amira Adly Kassab, **Darwish H. Badran**, Abdalla Y. Bashir (2024). Satisfaction of academic medical staff with integrated medical curriculum: an exploratory multinational survey. BMC Medical Education; 24: 1483-1492. <https://doi.org/10.1186/s12909-024-06468-x>
<https://link.springer.com/article/10.1186/s12909-024-06468-x>
- 13) Osama Odat, Ali Ata Alsarha, Jumanah D. Al-Shawabkeh, Suha Khayri Ababneh, Ziad Shraideh, **Darwish Badran**, Rawan Al-Jaloudi, Ahed J Alkhatib (2024). The Effects of Garlic Treatment on p53 Expression in the Heart Ventricle of Smoking Rats: A Passive Smoking Model of Cigarette Smoke and Waterpipe Smoke. Pakistan Journal of Life and Social Sciences; 22(2): 3982-3992. <https://doi.org/10.57239/PJLSS-2024-22.2.00295>
https://www.pjlss.edu.pk/pdf_files/2024_2/3982-3992.pdf
- 14) **Badran, Darwish**; El-Agroudy, Ayman El-Baz; Adly Kassab, Amira; Elnasr, Suzan Elsayed Abo; Ramadan, Noha (2024) Propolis mitigates oxidative stress/ NF- κ B/Np53extremeLRP3inflammasome pathway and protects against copper oxide nanoparticles induced pathological alterations in rats' spleen: A histopathological and biochemical study. Submitted to the Journal of Biochemical and Molecular Toxicology.
- 15) Ruba Ahmad Alslehat, Osama A. Samara, Amjad T. Alshatarat, **Darwish H. Badran** (2024). Morphometry of the Humeral Head, Greater and Lesser Tuberosities: A Radiographic Study. National Journal of Clinical Anatomy. DOI: 10.4103/NJCA.NJCA_10_24
https://journals.lww.com/njca/fulltext/2024/13020/morphometry_of_the_humeral_head_greater_and.2.aspx?context=latestarticles

- 16) **Darwish Badran**, Ayman El-Baz El Agroudy, Amira Adly Kassab, Khaled S. El Bayoumi, Zienab Helmy Eldken, Noha Ramadan Mohammad Elswaidy (2024). Impact of peripheral blood mononuclear cells preconditioned by activated platelet supernatant in managing gastric mucosal damage induced by zinc oxide nano particles in rats. *Anatomy and Cell Biology*.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10968197/pdf/acb-57-1-105.pdf>
<https://doi.org/10.5115/acb.23.217>
- 17) Alia Khwaldeh, Ziad Shraideh, **Darwish Badran**, Aiman Shoiab, Ali Ata Alsarhan, Saad Al-Fawaeir, Ahmed Alzbeede, Abdulrahim Aljamal (2024). Hepatoprotective Effects of Honey Against Tobacco Smoking Toxicity in Wistar Rats. *Trop J Nat Prod Res*; 8(5):7220-7224.
https://www.researchgate.net/profile/Alia-Khwaldeh/publication/381107069_Hepatoprotective_Effects_of_Honey_Against_Tobacco_Smoking_Toxicity_in_Wistar_Rats/links/665cb1a20b0d2845747dca33/Hepatoprotective-Effects-of-Honey-Against-Tobacco-Smoking-Toxicity-in-Wistar-Rats.pdf
- 18) Ahmad Al Zbeede, Ziad Shraideh, **Darwish Badran** (2024). Effect of Honey and Aqueous Garlic Extracts Against Short-term Exposure of Cigarette Tobacco Smoking in Mice: Histopathological and Biochemical Investigations. *Journal of Toxicology*; Vol 19(2): 1-11. doi: 10.1155/2024/5539447
<https://onlinelibrary.wiley.com/doi/epdf/10.1155/2024/5539447>
- 19) Ali Abu Siyam, Alia Khwaldeh, Baker AL-Shara, Ibrahim Al-Odat, Ziad Shraideh, Nour Al-Sawalha, Ahmed Alzbeede, Mohammad Farajallah, **Darwish Badran** (2024). Biochemical and Histological Study of the Effects of Propolis and Glutathione against Waterpipe Tobacco Smoking on Mice. *African Journal of Biomedical Research*. Vol 27(4s): 8736-8744.
DOI: <https://doi.org/10.53555/AJBR.v27i4S.4974>
<https://eacademic.ju.edu.jo/dhbadran/Lists/Published%20Research/Attachments/87/2024-%20Biochemical%20and%20Histological%20Study%20of%20the%20Effects%20of%20Propolisand%20Glutathione%20against%20Waterpipe%20Tobacco%20Smoking%20on%20Mice.pdf>
- 20) Mohamed K Al-Essa, Eman Alefishat, Sawsan AbuHamdah, Mohammed H Al-Muhtaseb, **Darwish H Badran**, Mhd Tareq Wahbi, Rima Altaweel, Amjad T Shatarat (2023). Alkaloids from *Peganum harmala* attenuated contractile responses of vascular smooth muscle cells. *Trop J Pharm Res*, October 2023; 22(10): 2111-2117.
<https://dx.doi.org/10.4314/tjpr.v22i10.12>
<https://www.ajol.info/index.php/tjpr/article/view/258596>
- 21) Shatarat, AT; Halaiqah, SH; Altarawneh, IA; Smadi, ZS; **Badran, DH**; Al-Essa, Mohamed K.; Mohammed, FI. (2023) Functional and Morphological Study of the Effects of Carvacrol on Smooth Muscle of the Thoracic Aorta in the Rat. *Nigerian Journal of Clinical Practice* 26(2):p 187-193.
<https://www.ajol.info/index.php/njcp/article/view/246238>

- 22) Islam Altarawneh, **Darwish Badran**, Osama Samara, Amjad Shatarat, Mohamed Kharabsheh, Tamer Abuelsamen, Amro Akkash, Hala Alzaghloul (2023). Morphometric Variations of the Suprascapular Notch Using Three-Dimensional Computed Tomography Scans in a group of Jordanian Population. *Journal of the Anatomical Society of India*; 72(3): 211-216. DOI: 10.4103/jasi.jasi_38_23
https://journals.lww.com/joi/fulltext/2023/72030/morphometric_variations_of_the_suprascapular_notch.6.aspx
- 23) Amjed A. Tarifi; Salameh Z. Sarhan; Mousa A. Amer; Anan D. Al Safarini; Dalia F. Mustafa; Katia S. Altabaa; Yazan B. Omari; Ahmad W. Mustafa; Amjad Shatarat; **Darwish Badran** (2023). Radiological Morphometric Study of the Hyoid Bone using Three-Dimensional Computed Tomography (3D-CT) Scans. *International Journal of Morphology*; 41(2): 401-409.
http://www.intjmorphol.com/wp-content/uploads/2023/04/Art_11_412_20231.pdf
- 24) R. Altaweel, A. Shatarat, **D. Badran**, N.M Abu Tarboush (2022). The effects of irisin on the rat thoracic aorta: a histological study. *Folia Morphologica*; 81(4): 923-930. DOI: 10.5603/FM.a2021.0107
https://journals.viamedica.pl/fovia_morphologica/article/view/FM.a2021.0107/64541
- 25) Hadeel Odeh, Tala Al Hyasat, Asil Habash, Farah J.N. Assaf, Rawand A. Sallam, Abdelbaset J. Abdellatif, Amjad Bani Hani, **Darwish H. Badran**, Waleed S. Mahafza, Muna A. Salameh, Amjad T. Shatarat (2022). Morphometric analysis of the inferior vena cava and its clinical correlations using abdomino-pelvic computed tomography: Series from a Jordanian population. *International Journal of Surgery Case Reports*; 98: 107514
<https://doi.org/10.1016/j.ijscr.2022.107514>
<https://www.sciencedirect.com/science/article/pii/S221026122200760X>
- 26) Mustafa Salman; Kate Miles; Heather Lea Harvey; Mohammad Al Tamimi; **Darwish Badran** (2022). Assessment of multiple-choice question exams quality using graphical methods. *The Journal of University Teaching & learning Practice*; Vol. 19(3):
<https://ro.uow.edu.au/cgi/viewcontent.cgi?article=2647&context=jutlp>
- 27) Firas M AL-Rshoud, Tamara M Darwish, Wesam S Al-Woshah, **Darwish Badran** (2022). Which Theoretical Information do Clinical Embryologists Need to Know More About?. *International Journal of Morphology*; 40(3): 553-556
http://www.intjmorphol.com/wp-content/uploads/2022/06/art_02_4031.pdf
- 28) Badran K, Tarifi A, Shatarat A, **Badran D** (2022). Sphenoid Sinus Pneumatization: The Good, the Bad, and the Beautiful. *European Archives of Oto-Rhino-Laryngology*. Published online, 4 March 2022. <https://doi.org/10.1007/s00405-022-07297-8>
<https://link.springer.com/article/10.1007/s00405-022-07297-8>

- 29) Badran K, Tarifi A, Shatarat A, **Badran D** (2022). Frontal sinus pneumatization: An isolated finding or a sign of concomitant anatomical variation. The Journal of Laryngology & Otology, 1-22. doi:10.1017/S0022215122000548
<https://www.cambridge.org/core/journals/journal-of-laryngology-and-otology/article/abs/frontal-sinus-pneumatization-an-isolated-finding-or-a-sign-of-concomitant-anatomical-variation/0A85295A059F381F04F57F20EFEEF9CF>
- 30) Badran K, Tarifi A, Shatarat A, **Badran D** (2022). Are we mindful of nasal dorsal integrity during septal surgery? An imaging study of nasal keystone area. Europe PMC.
<https://www.authorea.com/doi/full/10.22541/au.164132984.49863630>
- 31) Firas Al-Rshoud, Fida AL.asali, Rami kilani, Mohamad Al-nifise, Ebraheem Albazee, **Darwish Badran** (2021). Uterine fibroids: the most common symptomatic type and associated risk factors, a retrospective cohort study. Contemporary Ob/Gyn. [https://cdn.sanity.io/files/0vv8moc6/contobgyn/81ccda691dde9648701768c34edad033c085a06b.pdf/Anatomical%20location%20and%20the%20most%20common%20asociated%20factors%20of%20uterine%20fibroid%20\(4\).pdf](https://cdn.sanity.io/files/0vv8moc6/contobgyn/81ccda691dde9648701768c34edad033c085a06b.pdf/Anatomical%20location%20and%20the%20most%20common%20asociated%20factors%20of%20uterine%20fibroid%20(4).pdf)
- 32) R Altaweel, A Shatarat, **D Badran**, NM Abu Tarboush (2021). The effects of irisin on the rat thoracic aorta: histological study. Folia Morphologica. DOI: 10.5603/FM. a2021.0107
https://journals.viamedica.pl/folia_morphologica/article/view/84750
- 33) Justin Z. Amarin, Haya H. Suradi, **Darwish H. Badran** (2021). “Sidedness” as a standard hypernym for “right” and “left” in anatomy. Letter to the editor; Letter to the Editor, Anatomy and Cell Biology. <https://doi.org/10.5115/acb.21.024>
<https://synapse.koreamed.org/articles/1147575>
- 34) Shraideh, Ziad; **Badran, Darwish**; Alzbeede, Ahmed; Alqattan, Duaa; Alzbeede, Areej; Frieihat, Kholoud (2021) Effect of Garlic, Vitamin C, Vitamin E–Selenium against Bioaccumulated Organolead-Induced Cellular Injury in Liver and Spleen of Albino Rats: Pilot Study. Jordan Journal of Biological Sciences; 14(2): 385-390.
<https://jjbs.hu.edu.jo/files/vol14/n2/Paper%20Number%2013.pdf>
- 35) Ismaiel A Abu Mahfouz, Fida F Asali, Heba O Abu Saleem, Maha T Mohammad, Lama M Al Mehaisen, **Darwish H Badran** (2021). Trainee’s surgical anatomy knowledge in gynecology. A specialist’s perspective. Journal of Taibah University Medical Sciences; 16(5): 657-664. <https://doi.org/10.1016/j.jtumed.2021.04.008>
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8498678/pdf/main.pdf>
- 36) Alia Khwaldeh, Ziad Shraideh, **Darwish Badran**, Ahmed Alzbeede, Mohammad Farajallah, Duaa AlQattan (2021). Ameliorative Effect of Turmeric and Cocoa Extract against Acute Second-hand Exposure of Tobacco Smoking on Hepatocytes and Enterocytes in Albino Rats: Ultrastructural Study. Biomedical and Pharmacology Journal; 14(1).
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<https://biomedpharmajournal.org/vol14no1/ameliorative-effect-of-turmeric-and-cocoa-extract-against-acute-second-hand-exposure-of-tobacco-smoking-on-hepatocytes-and-enterocytes-in-albino-rats-ultrastructural-study/>

- 37) Maher T. Al-Hadidi, Heba M. Kalbounneh, Ashraf Ramzy, Aiman Al Sharei, **Darwish H. Badran**, Amjad Shatarat, Emad S. Tarawneh, Waleed S. Mahafza, Fadi A. Al-Hadidi, and Azmy M. Hadidy (2021). Gender and Age-Related Differences in the Morphometry of Corpus Callosum: MRI Study. *European Journal of Anatomy*. 24(1): 15-24.
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- 38) AA Alzbeede, ZA Shraideh, **DH Badran** (2021). Ameliorative Effect of Resveratrol against Histological Alterations in Lung of Mice Induced by Subchronic Exposure of Cigarette and Waterpipe Tobacco Smoking *International Journal of Morphology*; 39 (1): 11-17.
<http://dx.doi.org/10.4067/S0717-95022021000100011>.
http://www.intjmorphol.com/wp-content/uploads/2020/12/art_02_391.pdf
- 39) A Khwaldeh, AA Siyam, A Alzbeede, M Farajallah, Z Shraideh, **D Badran** (2021) Ameliorative effects of curcumin and caffeic acid against short term exposure of waterpipe tobacco smoking on lung, heart and kidney in mice. *Anatomy and Cell Biology*;
 DOI: 10.5115/acb.20.200
<https://synapse.koreamed.org/articles/1146637>
- 40) Ziad Shraideh, **Darwish Badran**, Ahmed Alzbeede, Duaa Alqattan, Areej Alzbeede, Kholoud Friehtat (2021). Effect of Garlic, Vitamin C, Vitamin E–Selenium against Bioaccumulated Organolead-Induced Cellular Injury in Liver and Spleen of Albino Rats: Pilot Study. *Jordan Journal of Biological Sciences*; 14(2): 285-290.
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- 105) S. Karyoute, S Al-Hadidi and **D. Badran** (1986). Analysis of 130 Hospitalised Patients with Hand Injuries at Jordan University Hospital. Dirasat, Vol. XIII (11): 21-26.

Membership of Academic Committees:

- Deans' council - Hashemite University (2016-2020)
- Appointment and promotion committee - Hashemite University 2017-2020)
- IRB (Hashemite University 2018-2020)
- Faculty Council (The University of Jordan and the Hashemite University)
- Committee of scientific research of The University Jordan.
- Library committee (The University Jordan)
- Curriculum committee (The University Jordan)

Memberships of Professional Societies:

- Jordan Medical Association
- Egyptian Society for Electron Microscopy

Administrative Boards and Committees

- Centre of Diabetes, endocrine and Genetic Diseases 2016-2020
- General Medical Council 2017-2020
- Prince Hamzah Hospital 2017-2020
- The National Center for Women Health 2017-2019

Courses Organized and/ or Supervised as the Director for the Center for Educational Development:

1- Courses in General Education

- Assessment of the learner.
- Methods of University Teaching.
- Planning for University Teaching.
- Computers in Teaching.
- Curriculum Design.
- Preparing Multiple Choice Questions.
- Leadership for Health Professionals.
- Research Methodology.
- OSCE
- Counseling.

- Grading Systems.
- Preparing E-content.
- Law and by-laws of higher education in Jordan.

2- **Courses in Continuing Medical and Dentistry Education:**

- **Advanced Pediatric Life Support:** In collaboration with the Royal College of Pediatrics and Jordan Medical Association.
- **Basic Surgical Skills:** In collaboration with the Royal College of Surgeons in Ireland.
- **Advanced Life Support in Obstetrics (ALSO):** In collaboration with JUZOOR Foundation/Palestine.
- **Basic Life Support (BLS):** In collaboration with Jordan University Hospital.
- **Advanced Trauma Life Support (ATLS):** In collaboration with Jordan University Hospital.
- **Dental Trauma:** In collaboration with the Faculty of Dentistry/University of Jordan.
- **Advances in Orthodontics:** In collaboration with the Faculty of Dentistry/University of Jordan.
- **Nitrous Oxide Sedation in Children:** In collaboration with the Faculty of Dentistry/University of Jordan.
- **Surgical Extraction of the Wisdom tooth:** In collaboration with the Faculty of Dentistry/University of Jordan.
- **Surgical Exposures in Orthopedics:** In collaboration with the Department of Orthopedics/University of Jordan.
- **Review of Orthopedics Trauma, Basic Principles-Upper Limb:** In collaboration with the Department of Orthopedics /University of Jordan.
- **Review of Orthopedics Trauma, Basic principles-Spine and Lower Limb:** In collaboration with the Department of Orthopedics/University of Jordan.
- **Review of Pediatric Orthopedics:** In collaboration with the Department of Orthopedics/University of Jordan.
- **Basic Hip Arthroplasty:** In collaboration with the Department of Orthopedics/University of Jordan.
- **Evidence-based Medicine:** In collaboration with Jordan Medical Association.
- **Oral Implantology:** In collaboration with the Faculty of Dentistry.
- **Regenerative Endodontics:** In collaboration with the Faculty of Dentistry.
- **Advanced Orthodontic Mechanics and Finishing and Detailing: The American Way:** In collaboration with the Faculty of Dentistry.
- **Post Laryngectomy Rehabilitation:** In collaboration with King Hussein Cancer Centre.
- **Knee Arthroplasty:** in collaboration with A/O Trauma.

Examinations Supervised as the Director of the Center for Educational Development:

- **MRC SI Collegiate and Intercollegiate (Parts 1, 2, Viva and Clinical).**
- **MRC PCH/UK (Parts 1 & 2)**
- **MRCP/UK (Parts 1 & 2)**
- **MFD/Ireland (Parts 1)**
- **MRCOG/UK (Parts 1 & 2)**
- **MRCP/Ireland (Part 1)**
- **MACI/Ireland**

- **Founded the University of Jordan Radio FM (94.9 MHz) in April 2009.**

Memberships:

- ⊙ Jordan Medical Association.
- ⊙ Jordan Medical Council.
- ⊙ Egyptian Society for Electron Microscopy
- ⊙ CME committee of Jordan Medical Council.
- ⊙ Jordan Society for Profession and Work Ethics.
- ⊙ Board of Examiners, University of Health Sciences, Lahore, Pakistan.
- ⊙ Chairman of the **IRB** Committee of the International Pharmaceutical Research Center (**IPRC**).
- ⊙ Federation of Islamic Medical Associations (FIMA).
- ⊙ Arabization of Medicine Society.
- ⊙ Supervising committee for curriculum development in health education/ Ministry of Education-Jordan
- ⊙ Basic Medical Sciences Scientific Committee in the General Medical Council.
- ⊙ Institutional Review Board (IRB) of Al Muwasah Hospital (April 2002-February 2004).

Editorial Board Membership:

- ⊙ The International Journal of Anatomy & Applied Physiology (IJAAP) http://scidoc.org/editorial_board.php?id=37
- ⊙ Jordan Medical Journal. (2018-2022) Published by the University of Jordan-Deanship of Scientific Research.
- ⊙ Open Access Journal of Archeology and Anthropology – OAJAA <http://www.irispublishers.com>
- ⊙ Supervising committee for curriculum development in nursing education/ Ministry of Education-Jordan.

In this committee I supervised, edited, prepared, and authored the following books (in Arabic):

- **Nursing Care** for the 11th grade
 - Student book
 - Practical manual
 - Instructor's manual
- **Nursing Care** for the 12th grade
 - Student book
 - Practical manual
 - Instructor's manual
- **Anatomy and Physiology** for the 11th grade / nursing stream
 - Student book
 - Instructor's manual
- **Nutrition** for the 12th grade / nursing stream
 - Student book
 - Instructor's manual
- **Pharmacology** for the 12th grade / nursing stream
 - Student book
 - Instructor's manual
- **Cosmetics** for the 11th grade / Vocational stream (editor)
 - Student book
 - Practical manual
- **Cosmetics** for the 12th grade / Vocational stream (editor)
 - Student book
 - Practical manual
- **Biology** for the 12th grade/ Vocational Stream.

CURRENT RESEARCH:

- Wound healing
- Clinical Anatomy
- Medical Education
- Islamic History of Medicine

Teaching Experience:

- Undergraduate Medicine and Dentistry students
 - Histology (General and Systemic),
 - Cytology
 - Anatomy (All parts of the human body),
 - Embryology (General and systemic)
 - Neuroanatomy
- Pharmacy students Anatomy and Histology
- Nursing students (Anatomy)
- Rehabilitation Sciences (Anatomy)
- Students of Laboratory Medicine (Anatomy, Histology and Embryology)
- Postgraduate students (M.Sc. Anatomy):

- Gross Anatomy (All parts of the human body)
- General and Systemic Histology
- General and Systemic Embryology
- Neuroanatomy

Conferences, Workshops and Meetings:

Several conferences and meetings related to Anatomy, Histology, and Medical Education in: Jordan, United Kingdom, Netherland, Egypt, United Arab Emirates, Poland, Saudi Arabia, Bahrain, Sudan, Germany, Thailand, Malaysia, Lebanon, Turkey, Slovenia, Greece, and Malta.

Postgraduate teaching and supervision: I taught the following subjects to MSc.

Students:

- Advanced Histology
- General and Systemic Embryology
- Applied Anatomy
- Neuroanatomy

Supervision of research projects (M.Sc. and Ph.D.):

- 1) Effects of cigarette smoking on respiratory, cardiovascular and urinary systems of albino rats: Histological, physiological and biochemical studies.

Student: Wajdy. J Al-Awaida,

Supervisors: Ziad. A Shraideh, Ghaleb. M Abuerreish, **Darwish Badran**

Date: November 2011

Ph. D. Thesis, The University of Jordan, Amman

School of Science

- 2) Protective effect of Garlic, Ascorbic Acid and vitamin e-Selenium mixture on the lead cytotoxicity in the digestive system of the albino rats

Student: Duha Al-Saad,

Supervisors: Ziad Shraideh, **Darwish Badran**

Date: December 2012

M. Sc. Thesis, The University of Jordan, Amman

School of Science

- 3) Functional and Morphological Study of the Effects of Carvacrol on Smooth Muscle of the Thoracic Aorta in the Rat.

Student: Sana'a Halaiqah

Supervisors: Amjad Shatarat, **Darwish Badran**

Date: August 2017

M. Sc. Thesis, The University of Jordan, Amman

School of Medicine

- 4) Ameliorating Effects of Vitamin C, Ammi Visnaga Seeds and Allicin Extract on Cigarette and Waterpipe Smoking Cytotoxicity in the Respiratory and Cardiovascular Systems of Albino Rats.
Student: Suha Ababneh,
Supervisors: Ziad Shraideh, **Darwish Badran**
Date: November 2017
Ph. D. Thesis, The University of Jordan, Amman
School of Science
- 5) Ameliorating effects of honey, curcumin and cocoa on cigarette and waterpipe smoking cytotoxicity in the digestive system of albino rat: histological and biochemical study.
Student: Alia Khawaldeh,
Supervisors: Ziad Shraideh, **Darwish Badran**
Date: April 2018
Ph. D. Thesis, The University of Jordan, Amman
School of Science
- 6) Renal and Hepato-protective Effect of Resveratrol Tobacco Smoke-induced Cytotoxicity in Albino Mouse: Histological and Biochemical Study.
Student: Mohammad Farajallah,
Supervisors: Ziad Shraideh, **Darwish Badran**
Date: March 2019
Ph.D. Thesis, The University of Jordan, Amman
School of Science
- 7) Ameliorating Effect of Resveratrol on Cigarette and Narghile Smoking Cytotoxicity in the Respiratory System of Albino Mouse: Histological and Biochemical Study.
Student: Ahmed Alzbeede,
Supervisors: Ziad Shraideh, **Darwish Badran**
Date: April 2019
M. Sc. Thesis, The University of Jordan, Amman
School of Science
- 8) Ameliorating Effects of Resveratrol on Cigarette and Narghile Smoking Cytotoxicity in the Digestive System of the Albino Mice: Histological and Biochemical Study.
Student: Wesam Mohammad,
Supervisors: Ziad Shraideh, **Darwish Badran**
Date: August 2019
M. Sc. Thesis, The University of Jordan, Amman
School of Science
- 9) The Ameliorating Effect of Caffeic Acid against the CCl₄ Induced Cytotoxicity on Liver and Kidney of Albino Rats: Histological and Biochemical Study.
Student: Esra'a Al-Abed,
Supervisors: Ziad Shraideh, **Darwish Badran**
Date: July 2020
M. Sc. Thesis, The University of Jordan, Amman
School of Science

- 10) Effect of Trans-Resveratrol Against the Cytotoxicity of (-)- Nicotine on the Liver, Duodenum and Jejunum of Male Albino Rats: Histological and Biochemical Study.
Student: Dana Al-Jildeh,
Supervisors: Ziad Shraideh, **Darwish Badran**
Date: August 2020
M. Sc. Thesis, The University of Jordan, Amman
School of Science
- 11) The Possible Protective Effect of Resveratrol Against the Toxicity of Ferric Oxide Nanoparticles on Lung, Liver and Kidney of Albino Rats: Histological and Biochemical Study.
Student: Wafa Ahmad Shlebak
Supervisors: Ziad Shraideh, **Darwish Badran**
Date: November 2020
M. Sc. Thesis, The University of Jordan, Amman
School of Science
- 12) The Effect of irisin on the Perivascular Adipose Tissue (PVAT) of the Thoracic Aorta in the Rat: Histological Study.
Student: Hammam Al Lahham
Supervisors: Amjad Shatarat, Nafez Abu Tarbush, **Darwish Badran**
Date: January 2022
M. Sc. Thesis, The University of Jordan, Amman
School of Medicine
- 13) Revisiting the Morphometry of the Intervertebral Foramen and the Intervertebral Discs of the Lumbar Region in Correlation with Age, Gender, and BMI in Jordanian Population
Student: Waad Nayef Eid Aljarabeia
Supervisors: Amjad Shatarat, **Darwish Badran**, Osama Samara
Date: August 2022
M. Sc. Thesis, The University of Jordan, Amman
School of Medicine
- 14) Morphometry of Proximal Humerus: A Radiographic Study
Student: Ruba Ahmad Ata Alslehat
Supervisors: **Darwish Badran**, Amjad Shatarat
Date: 29th December 2022
M. Sc. Thesis, The University of Jordan, Amman
School of Medicine
- 15) Mandible Foramina and Canals: Variations and Implications on Surgical Procedures: A Cone- Beam CT Scan Study.
Student: Asma Ali Kamel Saed
Date: 29th December 2022
Supervisors: Amjad Shatarat, **Darwish Badran**
M. Sc. Thesis, The University of Jordan, Amman
School of Medicine

- 16) Revisiting the Anatomy of the Anterior Cruciate Ligament and Menisci of Knee Joint on MRI: Morphometry, Attachment Identification and Clinical.
Student: Areen Farid
Date: 28th December 2022
Supervisors: Amjad Shatarat and **Darwish Badran**
M. Sc. Thesis, The University of Jordan, Amman
School of Medicine
- 17) A Comparative Study on the Anatomy and Histology of the Great and Small Saphenous Veins: Density of Innervation and Vasa Vasora and their Clinical Correlation.
Student: Fatima Sheniora
Date: 28th December 2022
Supervisors: Amjad Shatarat and **Darwish Badran**
M. Sc. Thesis, The University of Jordan, Amman
School of Medicine
- 18) Studying the Variations of Internal Jugular Vein Valves and their relation with the Common Carotid Artery
Student: Ala'a Mohammad Yousef
Date: 23rd may 2023
Supervisors: Amjad Shatarat and **Darwish Badran**
M. Sc. Thesis, The University of Jordan, Amman
School of Medicine
- 19) Gender and Age Differences in the Anatomy of the Lumbar Vertebra: 3D Abdominal CT Scan Study
Student: Mai Akef Abu Hajar
Date: 24th May 2023
Supervisors: **Darwish Badran** and Amjad Shatarat
M. Sc. Thesis, The University of Jordan, Amman
School of Medicine

References:

⊙ **Professor Abdalla Y Bashir**

Chairman of Board of Directors and Director General of Jordan Hospital
Vice Chairman of the Board of Trustees, Ibn Sina University for Medical Sciences

Professor of Surgery

Jordan Hospital

Amman,

Jordan

Email: aybashir@gmail.com

⊙ **Professor Kamal Bani Hani**

Ex-president of the Hashemite University

Professor of Surgery

Faculty of Medicine

The Hashemite University

Zarka

Jordan

Email: K_banihani@hu.edu.jo Banihani60@yahoo.com