

CURRICULUM VITAE

Hana Fakhoury Hajeer

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Educational Attainment

1998 Ph.D. Biochemistry and Molecular Biology, University of Manchester, Manchester, U.K.

1992 B.Sc. Biology, American University of Beirut, Beirut, Lebanon

Google Scholar Profile

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Employments and Appointments

Dec 2018- Present, **Chairman**, Department of Biochemistry and Molecular Medicine, College of Medicine, Alfaisal University, Riyadh, KSA

Sept 2016- Present, **Mentorship Program Director**, College of Medicine, Alfaisal University, Riyadh, KSA

Sept 2015- Present, **Associate Professor of Biochemistry**, Department of Biochemistry and Molecular Medicine, College of Medicine, Alfaisal University, Riyadh, KSA

Sept 2017- Sept 2019, **Year one Director**, College of Medicine, Alfaisal University, Riyadh, KSA

Sept 2012- July 2015, **Associate Professor of Biochemistry**, Department of Basic Sciences, College of Science and Health Professions, King Saud Bin Abdulaziz University for Health Sciences, Riyadh, KSA

Sept 2009–Sept 2012, **Assistant Professor of Biochemistry**, Department of Basic Sciences, College of Medicine, King Saud Bin Abdulaziz University for Health Sciences, Riyadh, KSA

March 2002–June 2009, **Assistant Professor of Biochemistry**, College of Nursing and Allied Medical Sciences, National Guard Health Affairs, King Abdulaziz Medical City, Riyadh, KSA

Sept 2002–July 2003, **Acting Head**, Basic Sciences Department, College of Nursing and Allied Medical Sciences, National Guard Health Affairs, King Abdulaziz Medical City, Riyadh, KSA

2000- 2001, **Senior Postdoctoral Fellow**, Cancer Genetics Unit, School of Medicine, University of Manchester, Manchester, U.K.

1992 – 1999, **Postdoctoral Research Associate**, School of Biological Sciences, University of Manchester, Manchester, U.K.

Current Committees and Administrative Duties

- Chairman of the department of Biochemistry and Molecular Medicine
- Mentorship program director
- Year 1 director
- Student mentorship and development committee, chairperson
- Exam review committee, member
- Curriculum committee, member
- College of Medicine Council
- Graduate Studies Committee

Teaching Experience

- Biochemistry and Molecular Biology for undergraduate medical students
- Biochemistry and Molecular Biology for postgraduate students
- Biology for pre-med and allied health students
- Medical Terminology for pre-med and allied health students

Professional Society Membership

- Member of the Biochemical Society, UK
- Member of the Association for the Study of Medical Education, UK

Editorial Board Membership

- Molecular and Cellular Biochemistry, Springer
- Frontiers in Reproductive Health, Frontiers

Awards

- Overseas Research Students Awards Scheme (ORS), UK, 1993-1995

Research Grant

- Study of the association of Vascular Endothelial Growth Factor gene polymorphisms with hypertension. Internal Research Grant, Alfaisal University, Riyadh

- Quantification of Senescence Mediators in Chemo-resistant Cell Lines by Targeted Absolute Quantitative Proteomics. Internal Research Grant, Alfaisal University, Riyadh
- Lamin Delta as A novel Anti-aging Protein: Role in Chemoresistance. King Abdullah International Medical Research Center, Riyadh
- Vitamin D Deficiency and Breast Cancer in Premenopausal Saudi Females. King Abdullah International Medical Research Center, Riyadh

Scientific Publications

1. Zhra M, Al Saud A, Alzayer M, Okdah L, Tamim H, **Fakhoury HM**, et al. Cost-effective in-house COVID-19 reverse transcription-polymerase chain reaction testing with yeast-derived Taq polymerase. *Ann Thorac Med* 2023;XX:XX-XX
2. **Fakhoury HMA**, Yousef Z, Tamim H, Daher S, Attasi AA, Al Ajlan A and Hajeer AH (2023). Combined effect of age and body mass index on postoperative mortality and morbidity in laparoscopic cholecystectomy patients. *Front. Surg.* 10:1243915. doi: 10.3389/fsurg.2023.1243915.
3. Mahevis R, Khan A, Mahmood HR, Qazi S, **Fakhoury HMA**, Tamim H. The Impact of Social Media on the Physical and Mental Well-Being of Medical Students During the COVID-19 Pandemic. *J Epidemiol Glob Health.* 2023 Nov 13. doi: 10.1007/s44197-023-00164-7. Epub ahead of print. PMID: 37955808.
4. **Fakhoury HMA**, Arabi TZ, Tamim H, Chun RF, Grant WB, Hewison M, AlAnouti F, Pilz S, Annweiler C, Tzimagiorgis G, Haitoglou C, Karras SN. Associations of free, bioavailable and total 25-hydroxyvitamin D with neonatal birth anthropometry and calcium homeostasis in mother-child pairs in a sunny Mediterranean region. *Br J Nutr.* 2023 Oct 26:1-8. doi: 10.1017/S000711452300243X. Epub ahead of print. PMID: 37880994.
5. Hamza FN, Daher S, **Fakhoury HMA**, Grant WB, Kviety PR, Al-Kattan K. Immunomodulatory Properties of Vitamin D in the Intestinal and Respiratory Systems. *Nutrients.* 2023 Mar 30;15(7):1696. doi: 10.3390/nu15071696. PMID: 37049536; PMCID: PMC10097244.
6. Grant WB, Al Anouti F, Boucher BJ, **Fakhoury HMA**, Moukayed M, Pilz S, Al-Daghri NM. Evidence That Increasing Serum 25(OH)D Concentrations to 30 ng/mL in the Kingdom of Saudi Arabia and the United Arab Emirates Could Greatly Improve Health Outcomes. *Biomedicines.* 2023; 11(4):994. <https://doi.org/10.3390/biomedicines11040994>
7. Fakhoury, H.M.A.; Elahi, M.A.; Al Sarheed, S.; Al Dubayee, M.; Alshahrani, A.; Zhra, M.; Almassri, A.; Aljada, A. Gene Expression Profiling of Peripheral Blood Mononuclear Cells in Type 2 Diabetes: An Exploratory Study. *Medicina* 2022, 58, 1829. <https://doi.org/10.3390/medicina58121829>

8. Al Balwi W, Al Turki M, Memish ZA, Fakhoury H, Al Balwi M, Hajeer AH. Age/BMI is a Stronger Predictor of Death in COVID-19 Patients than Age Alone: A Pilot Study. *Journal of Epidemiology and Global Health*. 2022 Nov 10:1-4.
9. AbuObead DA, Alhomsy TK, Zhra M, Alosaimi B, Hamza M, Awadalla M, Abdelhadi OE, Alsharif JA, Okdah L, AlKattan K, Turki SA, Fakhoury HMA, Aljada A. Development and Validation of ScriptTaq COVID PCR: An In-House Multiplex rRT-PCR for Low-Cost Detection. *Current Issues in Molecular Biology*. 2022; 44(12):6117-6131. <https://doi.org/10.3390/cimb44120417>.
10. **Fakhoury, H.M.**; El Shamieh, S.; Rifai, A.; Tamim, H.; Fakhoury, R. Vitamin D Related Gene Polymorphisms and Cholesterol Levels in a Mediterranean Population. *Journal of Cardiovascular Development and Disease* 2022, 9, 102.
11. Holail, J., Mobarak, R., Al-Ghamdi, B., Aljada, A. and **Fakhoury, H.** Association of VKORC1 and CYP2C9 single-nucleotide polymorphisms with warfarin dose adjustment in Saudi patients. *Drug Metabolism and Personalized Therapy*. (2022) <https://doi.org/10.1515/dmdi-2022-0108>
12. Karras, S.N.; Dursun, E.; Alaylıoğlu, M.; Gezen-Ak, D.; Annweiler, C.; Al Anouti, F.; **Fakhoury, H.M.A.**; Bais, A.; Kiortsis, D. Investigating the Role of Functional Polymorphism of Maternal and Neonatal Vitamin D Binding Protein in the Context of 25-Hydroxyvitamin D Cutoffs as Determinants of Maternal-Neonatal Vitamin D Status Profiles in a Sunny Mediterranean Region. *Nutrients* (2021), 13, 3082. <https://doi.org/10.3390/nu13093082>
13. **Fakhoury, H.** et al. Lung-Centric Inflammation of COVID-19: Potential Modulation by Vitamin D. *Nutrients* 13, 2216 (2021).
14. Kvietyš, P. R., H. **Fakhoury**, S. Kadan, A. Yaqinuddin, E. Al-Mutairy and K. AlKattan. "COVID-19: Lung-Centric Immunothrombosis." *Frontiers in Cellular and Infection Microbiology* 11: 534 (2021).
15. **Fakhoury, H. M.**, H. A Fatoum, M. A. Aldeiry, H. Alahmad, J. Enabi, S. Kayali, Y. Bawahab, E. M. Masuadi, A. Obeidat and C. J. Lumsden. "Flipping a biochemistry class within a medical curriculum: Impacts on perception, engagement, and attainment." *Biochemistry and Molecular Biology Education* (2021).
16. **Fakhoury, H. M.** et al. Vitamin D and Intestinal Homeostasis: Barrier, Microbiota, and Immune Modulation. *The Journal of Steroid Biochemistry and Molecular Biology*, 105663 (2020).
17. Karras, S.N., Koufakis, T., Antonopoulou, V., Goulis, D.G., Alaylıoğlu, M., Dursun, E., Gezen-Ak, D., Annweiler, C., Pilz, S., **Fakhoury, H.** and Al Anouti, F. Vitamin D Receptor FokI polymorphism is a determinant of both maternal and neonatal Vitamin D concentrations at birth. *The Journal of Steroid Biochemistry and Molecular Biology*, p.105568 (2019).

18. Grant, W. B., **Fakhoury, H.**, Karras, S. N., Al Anouti, F. & Bhattoa, H. P. Variations in 25-Hydroxyvitamin D in Countries from the Middle East and Europe: The Roles of UVB Exposure and Diet. *Nutrients* 11, 2065 (2019).
19. Muscogiuri G, Barrea L, Altieri B, Di Somma C, Bhattoa HP, Laudisio D, Duval GT, Pugliese G, Annweiler C, Orio F, **Fakhouri H.** Calcium and Vitamin D Supplementation. Myths and Realities with Regard to Cardiovascular Risk. *Current vascular pharmacology*. 2019.
20. Jawdat, Dunia & Al-Zahrani, Mohsen & Al-Askar, Ahmed & **Fakhoury, Hana** & Aytül Uyar, F & Hajeer, Ali. (2019). HLA-A, B, C, DRB1 and DQB1 allele and haplotype frequencies in volunteer bone marrow donors from Eastern Region of Saudi Arabia. *HLA*. 10.1111/tan.13533.
21. El Shamieh S, Saleh F, Masri N, **Fakhoury HM**, Fakhoury R. The association between ACE I/D polymorphism and the risk of Alzheimer's disease in Lebanon. *Meta Gene*. 2018 Oct 1.
22. Karras SN, Koufakis T, **Fakhoury H** and Kotsa K. Deconvoluting the Biological Roles of Vitamin D-Binding Protein During Pregnancy: A Both Clinical and Theoretical Challenge. *Frontiers in Endocrinology*. 2018; 9:259. doi:10.3389/fendo.2018.0025
23. Alghalyini B, El Shamieh S, Salami A, Siest SV, **Fakhoury HM**, Fakhoury R. Effect of SLCO1B1 gene polymorphisms and vitamin D on statin-induced myopathy. *Drug metabolism and personalized therapy*. 2018 Feb 8.
24. Al Jumah M, Kojan S, Al Shehri AM, Al Balwi M, Al Abdulkarim I, Masuadi EM, Alhaidan Y, Alabdulrahman A, **Fakhoury HM**, Hajeer AH. HLA class II polymorphism in Saudi patients with multiple sclerosis. *HLA*. 2018 Jan 1;91(1):17-22.
25. Al Salmi I, Metry AM, Al Ismaili F, Hola A, Shaheen F, **Fakhoury H**, Hannawi S. Epidemiology of human leukocyte antigens among omani population. *Saudi Journal of Kidney Diseases and Transplantation*. 2017 Sep 1;28(5):1021.
26. Alarifi M, Al-Amro F, Alalwan A, Al-Turki A, **Fakhoury H**, Atallah N, Al Muallimi M, Al-Balwi M, AlZahrani M, Alaskar A, Hajeer A. The prevalence of Ccr5-δ32 mutation in a cohort of Saudi stem cell donors. *HLA*. 2017 Nov 1.
27. **Fakhoury HA**, Alzahrani M, Alaskar AS, Hajeer AH. Identification of the Hla-dqb1* 06: 123 allele in an unrelated stem cell donor from the Saudi Registry. *HLA*. 2017 Oct 1.
28. Wagner CL, Hollis BW, Kotsa K, **Fakhoury H**, Karras SN. Vitamin D administration during pregnancy as prevention for pregnancy, neonatal and postnatal complications. *Reviews in Endocrine and Metabolic Disorders*. 2017 Sep 1;18(3):307-22.
29. Fawwaz S, Balbaa M, **Fakhoury H**, Borjac J & Fakhoury R. Association between angiotensin-converting enzyme insertion/deletion gene polymorphism and end-

stage renal disease in lebanese patients with diabetic nephropathy. *Saudi Journal of Kidney Diseases and Transplantation* 28, 325 (2017).

30. Alrogy A, Dirar A, Alrogy W, **Fakhoury H**, Hajeer A. Association of human leukocyte antigen DRB1 with anti-cyclic citrullinated peptide autoantibodies in Saudi patients with rheumatoid arthritis. *Ann Saudi Med.* 2017 Jan-Feb;37(1):488-491. doi: 10.5144/0256-4947.2017.488.
31. Karras SN, **Fakhoury H**, Muscogiuri G, Grant WB, van den Ouweland JM, Colao AM, Kotsa K. Maternal vitamin D levels during pregnancy and neonatal health: evidence to date and clinical implications. *Ther Adv Musculoskelet Dis.* 2016 Aug;8(4):124-35. doi: 10.1177/1759720X16656810.
32. Abulkhair O, Saadeddin A, Makram O, Gasmelseed A, Pasha T, Shehata H & **Fakhoury HM** (2016) Vitamin D levels and breast cancer characteristics: Findings in patients from Saudi Arabia. *The Journal of steroid biochemistry and molecular biology*, 164, 106-109.
33. **Fakhoury HA**, Alzahrani M, Alaskar AS, Hajeer AH. Description of a novel HLA-DQB1 allele, HLA-DQB1*06:126, in the Saudi stem cell donor registry. *HLA.* 2016 Jan;87(1):58-9. doi: 10.1111/tan.12703. Epub 2015 Nov 24.
34. Al-Mohrej OA, Al-Shirian SD, Altraif SI, Tamim HM & **Fakhoury HM**. What encourages Saudis to quit smoking? *Journal of Health Specialties* 4, 146 (2016).
35. **Fakhoury HA**, Jawdat D, Alaskar A S, Al Jumah M, Cereb N, Hajeer A H. Three new HLA-C alleles (HLA-C*14:02:13, HLA-C*15:72 and HLA-C*15:74) in Saudi bone marrow donors. *International Journal of Immunogenetics* 08/2015; 42(5).
36. **Fakhoury HA**, Alaskar A S, Hajeer A H. A novel HLA-DQ allele, HLA-DQB1*05:48, found in the Saudi Stem Cells Donor Registry. *Tissue Antigens* 07/2015; 86(3). DOI:10.1111/tan.12628.
37. Al-Mohrej OA, Al-Shirian SD, Al-Otaibi SK, Tamim HM, Masuadi EM, **Fakhoury H**. Is the Saudi public aware of Middle East respiratory syndrome? *Journal of infection and public health.* 2015.
38. Abumaree MH, Al Askar AS, Kalionis B, Abomaray FM, Jawdat D, Hajeer AH, **Fakhoury H**, Al Jumah MA: Stem cell research and regenerative medicine at king abduallah international medical research center. *Stem cells and development* 2014, 23 Suppl 1:12-16.
39. Dafterdar R, Al-Fayoumi M, Saadeddin S, Khan R, Alothaim A, Hasanato R, Al-Shangiti A, **Fakhoury H**, Tamimi W. Vitamin D immunoassay systems: a comparison. *British journal of Biomedical Science.* 2014;71(3):127-30. Epub 2014/10/01.
40. **Fakhoury H**, Cereb N, Jawdat D, Al Jumah M, Alaskar A, Hajeer A. Two novel alleles HLA-DRB1* 11: 150 and HLA-DRB1* 14: 145 identified in Saudi individuals. *International Journal of Immunogenetics.* 2014;41(4):340-1.

41. Kanan RM, Al Saleh YM, **Fakhoury HM**, Adham M, Aljaser S, Tamimi W. Year-round vitamin D deficiency among Saudi female out-patients. *Public health nutrition* 2013; 16(03): 544-8.
42. **Fakhoury H**, Tamim H, Ferwana M, Siddiqui IA, Adham, M, Tamimi W. Age and BMI Adjusted Comparison of Reproductive Hormones in PCOS. *Journal of Family and Medicine and Primary care* 2012 Dec; 1(2): 132-136.
43. **Fakhoury H**, Nouredine S, Chmaisse HN, Tamim H, Makki RF. MMP1-1607(1G>2G) polymorphism and the risk of lung cancer in Lebanon. *Ann Thorac Med* 2012 July;7(3):130-2.
44. **Fakhoury HMA**, Nouredine S, Tamim H, Chmaisse H, Makki R. Association of MMP3 -1171(5A>6A) Polymorphism with Lung Cancer in Lebanon. *Genet Test Mol Biomarkers*. 2012 Aug;16(8):988-90.
45. Nahas R, **Fakhoury HM**, Chmaisse HN, Makki RF. Study of the association between -403G/A and -28C/G RANTES gene polymorphisms and asthma in Lebanon. *Ann Thorac Med*. 2012 Jan;7(1):16-20.
46. El Wafai RJ, Chmaisse HN, Makki RF, **Fakhoury H**. Association of HLA class II alleles and CTLA-4 polymorphism with type 1 diabetes. *Saudi J Kidney Dis Transpl*. 2011 Mar;22(2):273-81.
47. Chmaisse HN, Jammal M, **Fakhoury H**, Fakhoury R. A study on the association between angiotensin-I converting enzyme I/D dimorphism and type-2 diabetes mellitus. *Saudi J Kidney Dis Transpl*. 2009 Nov;20(6):1038-46.
48. Chmaisse HN, **Fakhoury HA**, Salti NN, Makki RF. The ICAM-1 469 T/C gene polymorphism but not 241 G/A is associated with Behcets disease in the Lebanese population. *Saudi Med J*. 2006 May;27(5):604-7.
49. Nakkash-Chmaisse H, Makki RF, Abdelhamid E, **Fakhoury H**, Salti NN, Salti I. CTLA-4 gene polymorphism and its association with Graves' disease in the Lebanese population. *Eur J Immunogenet*. 2004 Jun;31(3):141-3.
50. Quarmby S, **Fakhoury H**, Levine E, Barber J, Wylie J, Hajeer AH, et al. Association of transforming growth factor beta-1 single nucleotide polymorphisms with radiation-induced damage to normal tissues in breast cancer patients. *Int J Radiat Biol*. 2003 Feb;79(2):137-43.
51. Hajeer A, Issa S, **Fakhoury H**, Huraib S, Al Ghamdi G, Flaiw A, et al. A database for the management of histocompatibility and immunogenetics results of renal transplantation patients. *Saudi J Kidney Dis Transpl*. 2003 Apr-Jun;14(2):197-201.
52. Shahbazi M, Pravica V, Nasreen N, **Fakhoury H**, Fryer AA, Strange RC, et al. Association between functional polymorphism in EGF gene and malignant melanoma. *Lancet*. 2002 Feb 2;359(9304):397-401.

53. Hajeer AH, **Fakhoury H**, Ollier WER. Diagnostic molecular techniques in clinical medicine. *Middle East Laboratory* 2002 5(3), 6-13.
54. **Fakhoury H**, Hillarby MC, Weiss JB. Increased gelatinase activity in systemic sclerosis dermal fibroblast cultures with unaltered gelatinase A mRNA expression. *J Dermatol Sci.* 2002 May;29(1):62-9.
55. Shuttleworth A, Ball S, Baldock C, **Fakhoury H**, Kielty CM. Functional role of A-domains in type VI collagen. *Biochem Soc Trans.* 1999 Dec;27(6):821-3.
56. Warhurst G, Higgs NB, **Fakhoury H**, Warhurst AC, Garde J, Coy DH. Somatostatin receptor subtype 2 mediates somatostatin inhibition of ion secretion in rat distal colon. *Gastroenterology.* 1996 Aug;111(2):325-33.
57. **Fakhoury H.M.A.** and Hajeer A.H. Guide to Literature Search for College of Medicine Students. In Al Alwan A., Magzoub M., and Elzubeir M. International Handbook of Medical Education: A Guide for Students (2012). **Book Chapter.** Sage Publications Ltd (April 4, 2012), London.