RAJAA **FAKHOURY**

rfakhoury@bau.edu.lb

A Professor of Medical Biochemistry with leadership experience in academia, research, and leadership.

EXPERIENCE

SEPT. 2016-PRESENT
DEAN, FACULTY OF HELATH SCIENCES, BEIRUT ARAB UNIVERSITY

SEPT. 2012 – AUG. 2016
DEAN, FACULTY OF SCIENCE, BEIRUT ARAB UNIVERSITY

SEPT. 2009 – AUG. 2012
Professor, FACULTY OF SCIENCE, BEIRUT ARAB UNIVERSITY

SEPT. 2007 – AUG. 2009
Professor, Head of Pharmacology & Biochemistry Department, FACULTY OF PHARMACY, BEIRUT ARAB UNIVERSITY

SEPT. 1999 – AUG. 2006
Associate Professor, FACULTY OF PHARMACY, BEIRUT ARAB UNIVERSITY

SEPT. 1993 – AUG. 1999
Assistant Professor, FACULTY OF PHARMACY, BEIRUT ARAB UNIVERSITY,

EDUCATION

JAN 1993
DOCTOR OF PHILOSOPHY IN MEDICAL BIOCHEMISTRY, MEDICAL SCHOOL, UNIVERSITY OF MANCHESTER

JULY 1989
MASTER OF SCIENCE IN BIOCHEMISTRY, MEDICAL SCHOOL, AMERICAN UNIVERSITY OF BEIRUT

September 1987
BSc. In Medical Laboratory Sciences, Faculty of Public Health, Lebanese University

INTERNATIONAL COMMITTEES

DECEMBER 21 – October 24
CHAIRING THE QUALITY ASSURANCE AND ACCREDITATION COMMITTEE OF" LA CONFÉRENCE DES RECTEURS DE LA RÉGION DU MOYEN-ORIENT" (CONFREMO)
OCTOBER 19 – December 25
MEMBER OF THE SCIENTIFIC COMMITTEE OF" LE RÉSEAU FRANCOPHONE DES FEMMES RESPONSABLES DANS L'ENSEIGNEMENT SUPÉRIEUR ET LA RECHERCHE" (RESUFF)

PRIZES AND AWARDS
ORS AWARD
Frederick Craven Moore, Manchester University
ROYAL SOCIETY TRAVEL FELLOWSHIP

PUBLICATIONS

1. Vitamin D status and *Helicobacter pylori* infection: clinical associations and lipid pathway differences in an exploratory metabolomics sub-study. El Shamieh S, Abdel Jabbar M, Fakhoury R, Aljada A, Anouti N, Kreidieh D, Hassan D, Hijazi MA, Fakhoury HMA. Front Nutr. 2026 Jun 1;13:1812874.
2. Perceptions of COVID-19-related nudges in the Arab world: A cross-country analysis of approval rates and associated factors.. Makki F, Sabbah BN, Tamim H, Abdelnabi M, Schietekat P, Saleh N, Osseiran A, Almakadma A, Al-Komi M, Alsayed E, Fakhoury R, Saleh F, Saddik B, Fakhoury HMA, Daher S, Sunstein CR. PLOS Glob Public Health. 2025 Oct 10;5(10).
3. Chedid P, Salem-Sokhn E, El Shamieh S, Fakhoury R. Prevalence and Progression of Vitamin D Deficiency in Greater Beirut and Mount Lebanon From 2013 to 2022: An Analysis of 19,452 Adults. J Clin Lab Anal. 2025 Apr;39(8).
4. Integrating pharmacogenomics in three Middle Eastern countries' healthcare (Lebanon, Qatar, and Saudi Arabia): Current insights, challenges, and strategic directions. El Shamieh S, Saleem RA, Hammoudi Halat D, Fakhoury HMA, Bastaki K, Fawaz M, Malki A, Fakhoury R. PLoS One. 2025 Apr 11;20(4).
5. El-Gowilly SM, Metwaly HA, Makhlouf D, Elmansoury N, Abuiessa SA, Sorour AA, Abdelgalil MH, Fawaz M, Abushady AM, Gamaleldin M, Abdelghany TM, Fakhoury R, Abdelhady R, Ghanim AM, Shehata S, Kamal M, Bahy R, Haroon SA, Manolopoulos VG, Cascorbi I, Daly A, Abdelkader NF, Shamieh SE, Nagy M, Wahid A. Analysis of the current situation of pharmacogenomics in terms of educational and healthcare needs in Egypt and Lebanon. Pharmacogenomics. 2024 Oct 9:1-12.
6. Batha L, Aziz MA, Zhra M, Holail J, Al-Qahtani WS, Fakhoury R, Aljada A. Differential Gene Expression Signatures and Cellular Signaling Pathways induced by Lamin A/C Transcript Variants in MCF7 Cell Line. Front Biosci . 2023 Jun 12;28(6):113.
7. Hana M A Fakhoury , Said El Shamieh , Amru Rifai , Hani Tamim , Rajaa Fakhoury . Vitamin D related gene polymorphisms and cholesterol levels in a Mediterranean population. J Cardiovasc Dev Dis. 2022 Mar 27;9(4):102.
8. Maya idriss , Maria Younes, Sonia Abou Najem, Mohammad Hassan Hodroj , Rajaa Fakhoury , Sandra Rizk . Gamma-tocotrienol synergistically promotes the anti-proliferative and pro-apoptotic effects of etoposide on breast cancer cell lines. Curr Mol Pharmacol. 2022;15(7):980-986.
9. Said El Shamieh , Ali Salami, Mirna Fawaz , Rania Jounblat , Mirna Waked , Rajaa Fakhoury. rs6837671A>G in *FAM13A* Is a Trans-Ethnic Genetic Variant Interacting with Vitamin D Levels to Affect Chronic Obstructive Pulmonary Disease. J Pers Med. 2021 Jan 30;11(2):84.

10. Naja K, El Shamieh S, Salami A., Fakhoury R. rs622342 in SLC22A1, CYP2C9*2 and CYP2C9*3 and Glycemic Response in Individuals with Type 2 Diabetes Mellitus Receiving Metformin/Sulfonylurea Combination Therapy: 6-Month Follow-Up Study. Journal of Personalized Medicine.2020 (10), 53-61.
11. Naja K, El Shamieh S, Fakhoury R. rs622342A>C in SLC22A1 is associated with metformin pharmacokinetics and glycemic response. Drug Metabolism and Pharmacokinetics, 2020 (35) 160-164.
12. Maya Idriss, Mohammad Hassan Hodroj, Fakhoury R. and Sandra Rizk. Beta-Tocotrienol Exhibits More Cytotoxic Effects than Gamma-Tocotrienol on Breast Cancer Cells by Promoting Apoptosis via a P53-Independent PI3-Kinase Dependent Pathway. Biomolecules 2020, 10, 577-596.
13. El Ghoch M and Fakhoury R. Challenges and new directions in obesity management: Lifestyle modification programmes, pharmacotherapy and bariatric surgery. J Popul Ther Clin Pharmacol. 2019 May 23;26(2):e1-e4.
14. Said El Shamieh, Fatima Saleh, Niveen Masri, Hana M Fakhoury, Fakhoury R. The association between ACE I/D polymorphism and the risk of Alzheimer's disease in Lebanon. Meta Gene, 2018 (18), 191 – 194
15. Alghalyini B, El Shamieh S, Salami A, Visvikis Siest S, Fakhoury HM, Fakhoury R. Effect of SLCO1B1 gene polymorphisms and vitamin D on statin-induced myopathy. Drug Metabolism and Personalized Therapy, 2018, 33 (1), 41-47
16. R Bitar, Fakhoury R., R Fahmi, J Borjac. Histopathological Effects of the Annona muricata Aqueous Leaves Extract on the Liver and Kidneys of Albino Mice. Trans Med, 2017 (7), 2161-1025.
17. Sarah Fawwaz, Mahmoud Balbaa, Hana Fakhoury, Fakhoury R. Association between Angiotensin Converting Enzyme Insertion/Deletion Gene polymorphism and End-Stage Renal Disease in Lebanese patients with Dabetic Nephropathy. Saudi. J. Kidney. Dis. Transpl 2017;28(2): 325-329
18. Khalife Rana, Hodroj Mohammad, Fakhoury R., Risk Sandra. Thymoquinone from Nigella Sativa seeds promotes the antitumor activity of nontoxic doses of topotecan in human colorectal cancer cells in Vitro. Planta Med. 2016 Mar;82(4):312-21
19. Soudani NY, Fakhoury R., Kaissi SS, Zgheib NK. The role of genetic polymorphisms in endothelial nitric oxide synthase and beta2-adrenergic receptors with risk of hypertension in a sample of Lebanese people. Saudi Med J. 2014 Mar; 35(3):255-60.
20. Julnar Usta, Yassmine Hachem, Omar Al-Rifai, Yolla Bou-Moughlabey, Karim Echtay, David Griffiths, Hania Nakkash-Chmaisse, Fakhoury R. Fragrance chemicals lyral and lilial decrease viability of HatCat cells by increase free radical production and lowering intracellular ATP level: Protection by antioxidants. 2013. Toxicology in vitro, 27(1): 339-348.
21. Hana Fakhoury, Sara Noureddine, Hania N. Chmaisse, Hani Tamim, Rajaa F. Makki." MMP1-1607 (1G>2G) polymorphism and the risk of lung cancer in Lebanon". 2012. Annals of Thoracic Medicine, 7(3): 130- 132
22. S. Noureddine, H. Nakkash Chmaisse, H. Tamim, H. Fakhoury, and R. F. Makki. "Association of MMP3 -1171(5A>6A) Polymorphism with Lung Cancer in Lebanon".2012. Genetic testing and molecular biomarkers16(8):982-990
23. Nahas R, Nakkash Chamaisse H, Fakhoury H and Makki R. "Study of the association of –403G/A and –28C/G RANTES gene polymorphisms and asthma in Lebanon". 2012. Annals of Thoracic Medicine 7(1):16–20.
24. H. Chmaisse, R. Makki, G. Nahhas, K. Knio, and N. Nuwayri-Salti." Detection of Leishmania parasites in blood of patients with isolated cutaneous Leishmaniasis". International Journal of Infectious Disease. 2011,15(7):491-494.
25. R. J. El Wafai, H. Nakkash Chmaisse, Rajaa F. Makki, and Hana Fakhoury. "Association of HLA

Class II Alleles and CTLA-4 Polymorphism with Type 1 Diabetes". Saudi. J. Kidney. Dis. Transpl., 2011, 22(2):273-281.
26. M. Akra-Ismail, R. Fakhoury, H. Nakkash Chmaisse, A. Kazma, and N. Khoueiry Zgheib. "Association Between Angiotensin Converting Enzyme Insertion/Deletion Genetic Polymorphisms and Hypertension in a Sample of Lebanese People". Genetic Testing and Molecular Biomarkers, 2010, 14(6):1-6.
27. Abdelmeguid NE, Fakhoury R, Kamal SM, and Al Wafai RJ. Effects of Nigella sativa and thymoquinone on biochemical and subcellular changes in pancreatic β-cells of streptozotocin-induced diabetic rat. Journal of Diabetes 2 (2010) 1–11.
28. H. Nakkash Chmaisse, M. Jammal, H. Fakhoury, and R. Fakhoury. "Study on the Association between Angiotensin-1 Converting Enzyme I/D Dimorphism and Type-2 diabetes Mellitus". Saudi. J. Kidney. Dis. Transpl, 2009, 20(6):1038-1046.
29. Salwa M. Kamal, Rajaa F. Makki, and Dalal A. Hammoudi : Mouse Mammary Tumor Virus (MMTV) like sequence in breast cancer of Egyptian women. Prevention of Cancer: New Research. 2008. Editors: JW Rosenthal and WJ Carey, pp. 133-141 Nova Science Publishers, Inc.
30. H Nakkash-Chmaisse, H Fakhoury, N.N. Salti and R F Makki. The ICAM-1 T/C 469 gene polymorphism but not G/A 241 is associated with Behcet's disease in the Lebanese population. Saudi Medical Journal, 2006, 27(5):604-607.
31. R.F. Makki, H. Nakkash-Chmaisse, and N.N. Salti. A study of the effects of factor VG1691A, Methylenetetrahydrofolate reductase gene C677T, Prothrombin Gene G20210A and ICAM-1gene G241A mutations on Behcet's disease in Lebanon. Alex. J.Pharm. Sc. 2006, 20(1):64-66.
32. Wafaa A. Amer, Salwa M. Kamal, Rajaa F. Makki and Hala B. Rahal. Effect of Fluoroquinolones on Actinobacillus actinomycetemcomitans associated priodontitis, using surgical and non-surgical approaches. J. Med. Microbiol. 2005, 14 (2) : 165-172.
33. R.F. Makki, and H. Nakkash-Chmaisse. Genetic variability of M2 muscarinic receptors. Effect on in vivo receptorfunction.Alex.J.Pharm.Sc.2004,18(2),117-119.
34. R.F. Makki, Essam Abdelhamid and H. Nakkash-Chmaisse. A new microsatellite AT/AC complex repeat within the coding region of human M2 muscarinic receptor gene. Alex. J. Pharm. Sc. 2004, 18 (1), 63-65.
35. H. Nakkash-Chmaisse, R.F. Makki, Essam E. Abdelhamed, N.N. Salti and I. Salti. CTLA-4 gene polymorphism and its association with Graves' disease in the Lebanese population. Eur. J. Immunogenetics,2004,31:141-143.
36. A.H. Hajeer, A. Dababneh, R.F. Makki, W. Thomson, K. Poulton, M.A.Gonzalez-Gay, C.Garci-Porrura, D.L. Matley and W.E.R. Ollier. Different gene loci within the HLA-DR and TNF regions are independently associated with susceptibility and severity in Spanish rheumatoid Arthritis patients. Tissue Antigens 2000,55:319-325.
37. N.N. Salti, E. Baydoun, R.El Tawk, R.F. Makki and K. Knio. The Epidemiology of Leshmaniases in Lebanon. Transactions of the Royal Society of Tropical Medicine and Hygiene. Mar. 2000, 164-166.
38. R.F. Makki, F.Al Sharif, M. Gonzalez-Gay, C. Garcia-Porrua, W.E.R Ollier and A.H. Hajeer. RANTES gene polymorphism in Polymyalgia Rheumatica, giant cell arteritis and rheumatoid arthritis. Clinical and experimentalRheumatology.2000,18(3):33991-3993.
39. M.A. Gonzalez-Gay, A.H. Hajeer, A. Dababneh, R. Makki, C. Garcia-Porrua, W. Thomson and W.E. Ollier. Seronegative rheumatoid arthritis in elderly and polymyalgia rheumatica have different patterns of HLAassociation.J.Rheumatology2000,28(1):122-125.
40. R.F. Makki. Serine 128 Arginine E-Selectin mutation in polymyalgia rheumatica and giant cell arteritis. Alex.J.Pharm.Sci.2000,14(1):35-37.
41. R.F. Makki, A. Wahadneh and E. Qudah. Genetic variation in the stromelysin promoter and Rheumatoid arthritis.Alex.J.Pharm.Sci.2000,14(2):109-112.

A.A Fryer, M.A. Spiteri, A. Bianco, M. Hepple, P.W. Jones, R.C. Strange, R. Makki, G. Tavernier, F.I. Smilie, A. Woudcock, W.E. Ollier and A.H.Hajeer. The – 403 G ----- A promoter polymorphism

in the RANTES gene is associated with atopy and asthma. Genes Immun. 2000 (8) : 509-514.

42. H.F. Hajeer and R.F. Makki. Matrix Metalloproteinases-Review article. Alex. J. Pharm. Sci.1999, 13(1) : 79-84.
43. F.M. Al Sharif, R.F. Makki, W.E.R. Ollier and A.H. Hajeer. A new Microsatellite marker within the promoter region of the MIP-1 A gene. Immunogenetics 1999, 49: 740- 741.
44. A.L. Wallace, R Makki, J. Weiss and S. Hughes. Measurement of serum angiogenic factor in devascularised experimental tibial fractures. Journal of Orthopaedic Trauma 1995, 9(4): 324-332.
45. M.D. Brown, O. Hudlicka, R.F. Makki and J.B. Weiss. Low molecular mass endothelial cell stimulating factor (ESAF) in relation to capillary growth induced in rat skeletal muscle by low frequency electrical stimulation. Int. J. Microc.- Clinical and Experimental 1995, 49: 740- 741.
46. P.B. Jones, R.F. Makki and J.B. Weiss. Endothelial cell stimulating angiogenic factor- A new biological marker for disease activity in ankylosing spondylitis. British Journal of Rheumatology 1994, 33 : 332-33