PERSONAL INFORMATION

FATIMA SALEH



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Sex Female | Date of birth 28/09/1981 | Nationality Lebanese

I am a committed and active interdisciplinary researcher who was recognized among the **world's top 2% of most-cited researchers** in my field as published by Stanford University for 2022 & 2025. I have worked with various national and international collaborators. This has led to a record of important publications in which I have co/authored more than 30 peer-reviewed papers (~70% first or last author) published in leading international journals.

WORK EXPERIENCE

April 2025-present
Professor
Faculty of Health Sciences, Beirut Arab University, Beirut

May 2025-present
Regional Focal Point representing the Middle East
Quality Committee, International Council for Open and Distance Education (ICDE)

Oct 2024-present
Director
Quality Assurance Center, Beirut Arab University, Beirut

Sept 2019-present
Head of medical laboratory technology department
Faculty of Health Sciences, Beirut Arab University, Beirut

Sept 2018- April 2025
Associate Professor
Faculty of Health Sciences, Beirut Arab University, Beirut

Sept 2013- Aug 2018
Assistant Professor
Faculty of Health Sciences, Beirut Arab University, Beirut

Sept 2012- Aug 2013
Lecturer
Faculty of Medicine, Beirut Arab University, Beirut

July 2011- Jan 2012
Research Associate
Hull York Medical School (HYMS), University of York, UK.

Mar 2006- Aug 2007
Research Scientist
Biomedical Tissue Research Group, Department of Biology, University of York, UK.

EDUCATION

2007- 2012
PhD in Biological Sciences
Tile of the thesis 'Regulation of mesenchymal stem cell activity in an in vitro model of the stem cell niche'
Wolfson Laboratory for Stem Cell Biology and Tissue Engineering, University of York, UK.

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2004- 2006
MSc in Pharmacology and Biotechnology
Sheffield Hallam University, Sheffield, UK.

1999- 2004
BSc in Pharmacy
Faculty of Pharmacy, Beirut Arab University, Beirut

MEMBERSHIP

2024-present: Member of the Quality Assurance Committee of the Universities Association of Lebanon

2022-present: Member of the Royal Society of Biology, UK

2012-present: Member of the York Alumni Association

2005-present: Member of the Order of Pharmacists of Lebanon

2022-2023t: Topic editor for the research 'Recent Advances in Cell-Based Therapies as a Diabetes Treatment Alternative' in Frontiers in Cell and Developmental Biology

2021- present: Editor for Frontiers in Public Health

2020-2021: Guest editor for Medical sciences (MDPI): Molecular Diagnostics and Personalized Therapy.

Reviewer in many peer-reviewed journals published by Elsevier, springer nature, ..

2018- 2023: Head of the faculty Quality Assurance Unit, Faculty of Health Sciences, BAU

2017-2018: Academic coordinator of BSc programs, Faculty of Health Sciences, BAU

2016- 2017: Member of IRB, BAU

2015- 2017: Member of the research committee, Faculty of Health Sciences, BAU

2013-present: Member of the faculty council, Faculty of Health Sciences, BAU

2013-present: Member of the advisory committee, Faculty of Health Sciences, BAU

PRESENTATIONS at CONFERENCES

Fatima Saleh and Fatimah Shaaban. Antimicrobial effects of adipose-derived mesenchymal stem cells secretome against *Staphylococcus aureus,* 58th Annual Scientific Meeting of the European Journal of Clinical Investigation (ESCI), Barcelona, Spain, 2024

Fatima Saleh and Hala Jaber. Adipose derived stem cells as a potential therapy for obesity and its associated comorbidities, 5th International Conference on Stem Cells, Greece, 2023.

Fatima Saleh, Riccardo Dalle Grave and Marwan El Ghoch. Treating Diet-Induced Obesity with Adipose-Derived Mesenchymal Stem Cells: Preclinical Evidence-Based Approach', International Translational and Regenerative Medicine Conference, Rome, Italy, 2018

Fatima Saleh and Paul Genever. Real-Time Analysis of Endogenous Wnt Signalling in 3D Mesenchymal Stromal Cells. 2nd International Congress on Stem Cell and Cellular Therapies, Antalya, Turkey, 2015.

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Fatima Saleh and Paul Genever. Mesenchymal Stem Cells in Spheres: A 3D Revolution, 2nd STEMS, Latest Updates in Stem Cells and Regenerative Medicine. Lebanese University, Fanar, Lebanon, 2014.

Fatima Saleh and Paul Genever. Regulation of mesenchymal stem cell activity by endothelial cells in 3D spheroids. Invited speaker at the Faculty of Sciences, Beirut Arab University (BAU), Debbeye, Lebanon, 2013.

Fatima Saleh and Paul Genever. Modelling the MSC niche. Invited speaker at the Department of Anatomy, Cell Biology and Physiological Sciences, Faculty of Medicine, American University of Beirut (AUB), Lebanon, 2012.

Fatima Saleh, Muna Whyte and Paul Genever. Canonical Wnt Signalling in 3D Mesenchymal Stem Cells. UKNSCN Annual Science Meeting, York, UK, 2011.

Fatima Saleh, Muna Whyte and Paul Genever. The mesenchymal stem cell niche: Endothelial cells determine MSC activity. The United Kingdom National Stem Cell Network (UKNSCN) Annual Science Meeting, Nottingham, UK, 2010.

Fatima Saleh, Muna Whyte and Paul Genever. Endothelial cells determine mesenchymal stem cell activity. White Rose Biomaterials and Tissue Engineering (BITEG) annual meeting, York, UK, 2010.

Fatima Saleh, Muna Whyte, Paul Genever. Modelling the niche. 4th UK Mesenchymal stem cell meeting, Leeds, UK, 2010.

Fatima Saleh, Muna Whyte and Paul Genever. Regulation of human mesenchymal stem cell activity by endothelial cells. International Society for Stem Cell Research (ISSCR), Barcelona, Spain, 2009.

PUBLICATIONS

Ali, L., Shaaban, F., Sokhn, E.S., **Saleh FA**. A systematic review of preclinical studies on therapeutic potential of mesenchymal stem/stromal cells and their secretome in bacterial infections. Stem Cell Res Ther 16, 456, 2025.

Ali L, Salem Sokhn E, Khalil C, **Saleh FA**. Therapeutic Effects of Mesenchymal Stem Cell Secretome Derived From Adipose Tissue, Umbilical Cord, and Bone Marrow Against Extended-Spectrum Beta-Lactamase-Producing and Non-Producing Escherichia coli Strains Isolated From Urinary Tract Infections. FASEB J. 15;39(13):e70829, 2025.

Shaaban, F., Salem Sokhn, E., Khalil, C, **Saleh F.**. Antimicrobial activity of adipose-derived mesenchymal stromal cell secretome against methicillin-resistant Staphylococcus aureus. Stem Cell Res Ther. 16(21), 2025.

Abou Assi, L., **Saleh, F.** A., Khalil, M. I., & Eid, A. A.. Novel Insights of Lithium Chloride Therapeutic Approach for Managing Type 2 Diabetic Kidney Disease: Crosslinking Tau Hyperphosphorylation and TGF Beta Signaling. *Diabetology*, *6*(4), 26, 2025.

Abutaima R, Barakat M, Thiab S, Sawan HM, Amer M, Alzayer R, Abdelaziz DH, Mansour NO, **Saleh F,** Dayyih WA. A multinational cross-sectional study on knowledge, attitudes, and practices towards magnesium supplements. Front Pharmacol. 2025

Nour Kalash, Samer Kharroubi, Rouba Ballout, **Fatima Saleh**. An exploratory study to assess the Knowledge, Attitudes and Practices of Lebanese residents towards acrylamide, PLOS ONE, 2024.

Wafaa Moghnieh, Mahdi Fadlallah, **Fatima Saleh**, Saria El-Hariri, Elie S. Sokhn, Extended

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spectrum beta-lactamase carriage among elderly residents of a long-term care facility in Beirut, American Journal of Infection Control, 2023.

Saria A El-Hariri, **Fatima Saleh**, Wafaa Moghnieh, Elie S Sokhn, Phenotypic and molecular characterization of ESBL producing Escherichia coli and Klebsiella pneumoniae among Lebanese patients, JAC-Antimicrobial Resistance, 5(3), 2023

Fatima Saleh. The need for COVID-19 clinical trials in LMICs. Frontiers in Public Health. 2023

Sendon-Lago J, Seoane S, **Saleh F**, et al. In Vivo Effects of Conditioned Medium from Human Uterine Cervical Stem Cells in an Ovarian Cancer Xenograft Mouse Model. Cancer Genomics & Proteomics Sep 2022, 19 (5) 570-575.

Aya Harb, Mohammad Fakhreddine, Hassan Zaraket**, Fatima Saleh**. Three-Dimensional Cell Culture Models to Study Respiratory Virus Infections Including COVID-19. Biomimetics. 2022 Mar; 7(1):3.

Fatima Saleh & Ghazzawi, J. (2021). Clinical update on the use of mesenchymal stem cells in COVID-19. American Journal of Translational Research, 13(11), 12195.

Hala Jaber, Ali Eid, **Fatima Saleh**. The therapeutic effects of adipose-derived mesenchymal stem cells on obesity and its associated diseases in diet-induced obese mice. Scientific Reports. 2021, 11(1):6291.

Fatima Saleh, Hala Jaber, Ali Eid. Effect of Adipose derived mesenchymal stem cells on multiple Organ Injuries in diet-induced obese mice. Tissue Barriers, 2021, 9(4), p.1952150.

Fatima Saleh, lubna Rifai. Conventional and Alternative Mesenchymal Stem Cell Therapies for the Treatment of Diabetes. Advances in Experimental Medicine and Biology. Springer, New York, NY, 2021.

Fatima Saleh, Aleen Sleem. COVID-19: Test, Test and Test. Medical Sciences, 2021; 9 (1), 1

Samer Kharroubi, **Fatima Saleh**. Are Lockdown Measures Effective Against COVID-19? Frontiers in Public Health, 2020, 8: 549692.

Fatima Saleh, Aleen Sleem. Mesenchymal stem cells in the fight against viruses: face to face with the invisible enemy. Current Research in Translational Medicine, 2020; 68(3): 105-110.

SG Haddad, K Raafat**, Fatima Saleh**. Antihyperglycemic and hepatoprotective properties of miracle fruit compared to aspartame in alloxan-induced diabetic mice. Journal of Integrative Medicine, 2020; 18 (6): 514-521

L Rifai, M Mohammad, K Raafat, **Fatima Saleh**. In Vitro and In Vivo Evaluation of the Protective Potential of Moringa oleifera Against Dietary Acrylamide-induced Toxicity. The Open Medicinal Chemistry Journal, 2020; 14 (1): 26-34.

Fatima Saleh, A Harb, H Zaraket. A three-dimensional A549 cell culture model to study respiratory syncytial virus infections. Journal of Infection and Public Health, 2020; 13(8):1142-1147.

Fatima Saleh, lubna Rifai**.** A Review on Acrylamide in Food: Occurrence, Toxicity, and Mitigation Strategies. International Journal of Toxicology, 2020; 39 (2), 93-102

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Fatima Saleh, N El Darra, K Raafat. Red sour cherry for the treatment of diabetes mellitus. In book: Bioactive Food as Dietary Interventions for Diabetes, Academic Press, Elservier, 2019.

Raafat K, El-Darra N, **Saleh Fatima,** Rajha HN, Louka N. Optimization of Infrared-assisted Extraction of Bioactive Lactones from Saussurea lappa L. and their Effects against Gestational Diabetes. Pharmacognosy Magazine. 2019;15(61):208-218.

Fatima Saleh. Knowledge and Attitude Among Lebanese Pregnant Women Toward Cord Blood Stem Cell Storage and Donation. Medicina,2019; 55 (6), 244.

S Moussa, **Fatima Saleh**, S El Shamieh, T Assi, A Othman, F Farhat. Detection of PIK3R1 (L449S) Mutation in a Patient with Ovarian Cancer: A Case Report. Case Reports in Oncology,2019; 13 (1), 188-192

Fatima Saleh, Leila Itani, Simona Calugi, Riccardo Dalle Grave and Marwan El Ghoch. Adipose-Derived Mesenchymal Stem Cells in the Treatment of Obesity: A Systematic Review of Longitudinal Studies on Preclinical Evidence, Current Stem Cell Research & Therapy, 2018;13(6):466-47.

Fatima Saleh, Nada El Darra, Karima Raafat, Iman El Ghazzawi. Phytochemical Analysis of Nigella sativa L. Utilizing GC-MS Exploring its Antimicrobial Effects against Multidrug-Resistant Bacteria, Pharmacogn J. 2018; 10(1): 99-105.

Said El Shamieh, **Fatima Saleh**, Salim Moussa, Joseph Kattan & Fadi Farhat. RICTOR gene amplification is correlated with metastasis and therapeutic resistance in triple-negative breast cancer. Pharmacogenomics, June 2018, 19(9):757-760.

Fatima Saleh, Nada El Darra, Karim Raafat. Hypoglycemic effects of Prunus cerasus L. pulp and seed extracts on Alloxan-Induced Diabetic Mice with histopathological evaluation, Biomedicine & Pharmacotherapy, 2017, 88: 870–877.

Fatima Saleh, Alice Carstairs, Paul Genever. Real-Time Analysis of Endogenous Wnt Signalling in 3D Mesenchymal Stromal Cells. Stem Cells International, 2016, 1:9

Fatima Saleh, Muna Whyte, Paul Genever. Effects of endothelial cells on human mesenchymal stem cell activity in a three-dimensional in vitro model. European Cells & Materials, 2011, 22: 242-257.

Fatima Saleh and Paul Genever. Turning Round. Mesenchymal Stem Cells in 3D, an in vitro Revolution? Cytotherapy, 2011, 13(8):903-912.

Fatima Saleh, Muna Whyte, Paul Genever. Regulation of Mesenchymal Stem Cell Activity by Endothelial Cells. Stem Cells and Development, 2011, 20(3): 391-403

BOOK CHAPTERS

Fatima Saleh, lubna Rifai. Conventional and Alternative Mesenchymal Stem Cell Therapies for the Treatment of Diabetes. Advances in Experimental Medicine and Biology. Springer, New York, NY, 2021.

Fatima Saleh, N El Darra, K Raafat. Red sour cherry for the treatment of diabetes mellitus. In book: Bioactive Food as Dietary Interventions for Diabetes, Academic Press, Elservier, 2019.

Leah Etheridge, Rebecca A. Mason, **Fatima A Saleh** and Paul G Genever. Cell-cell signaling pathways that regulate mesenchymal stromal cell differentiation. The Biology and Therapeutic Application of Mesenchymal Cells, Wiley, 2016, 91-103.

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Fatima Saleh, Jess Frith, Paul Genever. Three-dimensional invitro culture techniques for mesenchymal stem cells. Methods in Molecular Biology. Emerging Methods in Progenitor Cell Biology: A Multisystemic Overview, 2012, 916: 31-45.

SCIENTIFIC VISITS

July 2023: Daniel Turnberg Fellowship in Wentworth College, University of York, UK

April 2018: scientific visit to the international Doctorate School in Clinical and Experimental Medicine at University of Modena and Regio Emilia, Italy.

June 2018: Research visit to the Genever Lab at the Department of Biology, University of York, UK

AWARDS & GRANTS

Daniel Turnberg Fellowship (2023) from Academy of Medical Sciences, UK

2023: University of Sharjah Research Board Grant (32,000$) for the research entitled ‘Development of Three-Dimensional In Vitro Cell Culture Models of INS-1 pancreatic β-Cells for pharmaceutical and functional studies’.

Mobility grant to University of Minho, Potugal, under the **JAMIES Erasmus+ Mobility grant** for the academic year 2023-2024.

Mobility grant to University of Santiago de Compostela, Spain, under the **Erasmus+ International Credit Mobility KA107 grant** for the academic year 2020-2021.

2018-2020: Centre national de la recherche scientifique (**CNRS-L) Grant** (17,000$) for the research entitled ' Adipose derived stem cells for the treatment of obesity and related diseases in mice'.

2007-2011: **BBSRC-CASE PhD studentship** at University of York, UK

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