



UNIVERSITY OF  
**BALAMAND**

# FACULTY OF HEALTH SCIENCES

ANNUAL REPORT 2024

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## PREFACE

The year 2024 was an exceptionally challenging year for FHS. The Lebanese economic and financial crisis, compounded with the military warfare on Lebanon in September, has substantially impacted our academic activities. The war caused major disruptions in course offerings resulting in the return to online teaching to meet the needs of displaced students in Lebanon and those who travelled abroad. The ceasefire brought back partial on-site teaching alongside scheduled make-up midterms and finals, which, in some cases, were extended to January to accommodate for the return of students abroad. Despite all these challenging events, the nutrition and nursing programs were able to hold successful hybrid online site visits by ACEND and ACEN in April and October 2024 respectively. We were delighted to learn that all accreditation standards and criteria were met with no compliance issues for both. Initial accreditation for both programs is expected in January and April/May 2025, respectively. Of significant importance is the continuing progress on the accreditation of all FHS academic programs; Public Health and MLS are currently working on this important milestone with their respective accrediting bodies. The FHS Center for Health Research (CHR) continues to witness an increase in UOB as well as extramurally funded research projects. In addition, the 12-credit multidisciplinary online certificate program in Health Informatics was completed in December, graduating the first cohort of 14 participants. FHS plans to launch the next certificate in April 2025. The community engagement department continues to be actively involved in a large number of funded community projects. This annual report gives detailed information on the FHS activities in 2024. We hope you find it useful.

Dr. Huda Abu-Saad Huijer

Dean, Faculty of Health Sciences



## FHS FACULTY

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Abbas, Nivine	Ph.D., Social Sciences and Environmental Studies, University of Twente, The Netherlands
Abdel Rahman, Abir	Ph.D., Public Health & Psychological Sciences, University of Strathclyde, Scotland
Abdo, Elias	Ph.D., Molecular Biology, University of Montpellier France II,
Abou Lteif, Ghada	M.S., Biology, American University of Beirut, Lebanon
Abu-Saad Huijer, Huda	Ph.D., Curriculum & Instruction, Nursing Science, University of Florida, Gainesville
Aoun, Habbouba	Doctorate of Public Health, Atlantic International University, U.S.A.
Azar, Mathilde	Ph.D., Health Sciences, University of Dundee, U.K.
Baysari (AL), Charbel	Ph.D., Medical Microbiology, Lebanese University, Ph.D., Human Pathology Infectious Disease, Aix Marseille, France
Chabbani, Sana	Ph.D. in Education, Universite Saint Joseph, Lebanon
Daher, Mira	Ph.D., Agricultural & Food Sciences, Université Saint Esprit, Kaslik, Lebanon
Dassouki, Zeina	Ph.D., Hematology & Oncology, Université Paris Diderot, France
Deghel (EL), Maria	M.S., Microbiology, Université Saint Joseph, Lebanon
Dib, Liza	M.S., Microbiology, Lebanese University, Lebanon
El Chaar, Mira	Ph.D., Molecular Microbiology, University of Cambridge, U.K.
Finianos, Jessica	Ph.D., Health Psychology, University Rovira, Spain
Germanos, Peggy	M.S., Nursing, St. Joseph University, Lebanon

Greige, Layal	M.S., Immunology and Microbiology, American University of Beirut, Lebanon
Habib, Hiba	M.S., Nursing, St. Joseph University, Lebanon
Haddad, Lara	Ph.D., Immunology, University of Aix-Marseille II, France
Hourani, Rabab	Master Business Administration, Ecole Supérieure des affaires ESA, Lebanon
Jaalouk, Lina	M.S., Health Promotion Management, Marymount University, U.S.A.
Saada Jurdi	Ms., Epidemiology & Biostatistics, American University of Beirut, Lebanon
Kobrossy, Micheline	M.S., Occupational Health, University of Birmingham, England
Maarawi, Thérèse	M.S., Chemistry, University of Balamand, Lebanon
Mrad, Myriam	Ph.D., Epidemiology & Public Health, Université Pierre et Marie Curie- Paris VI, France
Mnayer, Dima	Ph.D., Safety & Quality of Natural Plant Products Université d'Avignon et des pays de Vaucluse, France
Rouaiheb (El), Hiba	M.S., Food Technology, American University of Beirut, Lebanon
Rizk, Maud	Ph.D., Medicine, Cancerology, Genetics & Hematology University of Burgundy, France
Saliba Jessica	Ph.D. in Biology and Chemistry for Health Sciences (Pharmacochimie and Biomolécules) Université Montpellier I, France
Serhan, Mireille	Ph.D., Food Engineering and Biotechnology, National Polytechnic Institute of Lorraine, France
Shoucair, Gretta	M.S., Food Technology, American University of Beirut, Lebanon
Tohme Jessy	MS Medical Laboratory Sciences, University of Balamand, Lebanon
Wakim, Zeina	D.E.A., Social Sciences, Lebanese University, Lebanon

Whaibeh Emile	M.S., Public Health, University of Balamand, Lebanon
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## FACULTY RECRUITMENT

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Christine Azar	PhD, Public Health & Epidemiology Paris-Est University, France
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Maysam Moussa	PhD, Regenerative Medicine Université St Joseph, Lebanon
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## FHS STAFF

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Atallah, David	IT Assistant
Chaddad, Rita	Students Services Officer
Constantine, Catherine	Executive Officer
Khalil, Mayssa	Secretary
Khamis, Youssef	Office Assistant
Khater, Paul	IT Supervisor
Khoury, Joelle	Financial Project Coordinator
Lahoud, Cecile	Executive Secretary
Makhoul, Sethrida	Receptionist

## PART-TIME FACULTY

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Abdel Sater, Sabine	M.S., Public Health University of Balamand, Lebanon
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Abou Hamdan, Mohamd	Ph.D., Neurosciences, Universite Marseille, France.
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Abi Hanna, Jowy	M.S., Public Health University of Balamand, Lebanon
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Abdallah, Ahmad	M.S., Public Health, American University of Beirut, Lebanon
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Abdo, Habib	MBA Université St Joseph, Lebanon
Abi Khalil, Cynthia	Master 2 research in nursing sciences, St. Joseph University, Lebanon
Accary, Claudine	Ph.D., Pharmacology National College of Veterinary Medicine, France
Abou Zaki, Ram	MD., Medicine University of Balamand, Lebanon
Abou Haidar, Egnar	MBA ESA, Lebanon
Assaad, Chafica	Ph.D., Basic Medical Sciences, American University of Beirut, Lebanon
Azar, Nadine	B.S, Nursing Lebanese German University, Lebanon
Azar, Nagham	MD, Family Medicine University of Balamand, Lebanon
Barakat, Sabine	Ph.D., Enviromental Chemistry, University of the West of England, UK
Badran, Ghandoura	B.S., Medical Laboratory, Lebanese University, Lebanon
Barbour, Jessy	Midwife, Lebanese University
Dernaika, Fouad	M.S., Pharmacy, Lebanese American University, Lebanon
Caroline Daccache	M.S, Bioethics Lebanese University
Chamieh Hala	PhD, Biochemsitry University of Grenoble, France
Christine Gemayel	MD, Pathology



	Holy Spirit University, Lebanon
Damaj, Raghida	PhD, Physiology and molecular genetics University of Renne, France
Esper Christina	MSc. Biomedical Sciences University of Balamand, Lebanon
Georges, Vicky	M.S., Nursing, St. Joseph University, Lebanon
Ghotmi Nadine	Ph.D. Physiology Marseille University, France
Hamadeh, Eva	PhD, Biochemistry University Lyon I, France
Hamouche, Shaza	Ph.D, Molecular Biology, University of Lorraine, France
Hatjian, Berj	Ph.D., Environmental & Occupational Toxicology, University of Newcastle Upon Tyne, England
Hokayem, Jihad	D.E.A., Finance, Saint Joseph University, Lebanon
Hteit, Racha	EMBA LAU, Lebanon
Ismail, Zouheir	Master, Business Administration, San Jose State University, U.S.A.
Karam, Luna	Ph.D, Molecular Biology University Erlangen, Germany
Jabbour, Nour	MS. Biomedical Methodology University Paris Saclay, France
Jreije, Jocelyne	M.S., Computer Sciences, University of Balamand, Lebanon
Kamel, Rima	Ph.D, Physiologie Universite D'Angers, France
Kanaan, Iman	Ph.D, Education, Doctoral School of Literature, Lebanon
Khalifeh, Nassab	M.S., Industrial Technology,

Khatib, Jinan	Université Saint Joseph, Lebanon M.S., Forensics, University of Technology Sidney, Australia
Khatib, Rolla	M.S., Physiology Concentration Hematology, American University of Beirut, Lebanon
Kleimy Nelly	M.D, Orthopedic University of Montpellier, France
Khysho, Joelle	M.S, Nursing American University of Beirut
Masri, Nancy	Dr. in Pharmacy Lebanese University, Lebanon
Melki, Pamela	Ph.D., Toxicology and Environmental Sciences, University of Littoral Côte d’Opale, France
Naddaf, Youssef	Master of Science University of London
Nemr Denise	MPH University of Balamand
Omari, Sarah	Ph.D., Epidemiology, American University of Beirut, Lebanon
Rabbaa, Sally	Doctor of Business Administration University of Balamand, Lebanon
Saab, Antoine	Ph.D, Biomedical Informatic Universite de Paris, France
Said, Manal	MPH Liege University, Belgium
Saleh, Rima	D.B.A Sorbonne University, Paris, France
Saliba, katia	Ph.D, Quality Management Faculty of Organization Studies, Lebanon
Tamim, Rabih	PharmD Saint Joseph University, Lebanon
Yazbeck, krsytel	MBA – ESA, Lebanon

Youssef, Lara	MS, Biomedical Sciences University of Balamand, Lebanon
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## PART-TIME PRECEPTORS

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Andraos, Dalia	DU, Reanimation, Lebanese University, Lebanon
Alaaeddine, Nourhane	B.S., Nursing, Lebanese University
Ayranji, Rosario	BS, Nursing University of Balamand
Ailabouni, Christine	BS Nursing Lebanese red Cross
Assaad, Najibeh	BS, Nursing University of Balamand
Chahine, Liliane	B.S., Nursing, Red Cross University, Lebanon
Chemaly, Eva Maria	BS, Nursing University Of Balamand
Esper George	B.S Medical Laboratory Sciences University of Balamand
Fayad, Khalil	M.S., Hospital Risk Management, Lebanese University, Lebanon
Ghaoui, Rita	MS., Methodology & Biomedical Lebanese university
Ghadban, Reem	B.S., Nursing, Lebanese university
Ghanem, katia	BS, Nursing Univeristy Ste Famille
Karam, Fadia	B.S., Laboratory Sciences, Lebanese University, Lebanon Saint Georges University, Lebanon
Kassis, Maria	MS, Nursing Antonine University, Lebanon

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Kallas, Yolla	MS., Nursing Lebanese University
Khoury, Rosy	BS, Nursing Lebanese University
Kmeid, Aline	BS, Nursing Al Hayat College
Serhan, Yara	BS, Nursing University of Balamand
Saad, Angela	BS, Nursing University of Balamand
Sharafeddine, Zeina	Dip, Nursing, Saint Joseph University, Lebanon

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## HONORS, AWARDS, AND RECOGNITIONS

- **Dr. Huda Abu-Saad Huijer** ranked among the top 2% of researchers worldwide, according to an international study by AD Scientific Index, # 1 at University of Balamand, and Number 11 in Lebanon.
- **Dr. Huda Abu-Saad Huijer** appointed Adjunct full professor, Johns Hopkins University School of Nursing, U.S.A.
- **Dr Charbel Al-Bayssari** ranked Top 500 scientists in Lebanon and Top 12 in Balamand (Adi scientific 2024)

## ACCREDITATION OF ACADEMIC PROGRAMS

**Nursing:** The FHS Nursing Program hosted the Accreditation Commission for Education in Nursing (ACEN) virtual site visit in October 28 – November 1, 2024. The site visit was conducted online and included meetings with the dean, director, president, provost, faculty, students, nursing advisory board and stakeholders as well as UOB administration and service departments. Recordings were prepared ahead of time with faculty, students in classrooms and clinical sites as well as videos of the three FHS campus facilities. All ACEN standards and criteria were met and no compliance issues were reported for the BSN and MSN program in its two tracks, Adult Care and Neonatal and Child Care. Accreditation expected April/May 2025.

**Nutrition:** The Department of Nutritional Sciences at the Faculty of Health Sciences has applied to the Accreditation Council for Education in Nutrition and Dietetics (ACEND) to open an ACEND accredited Nutrition and Dietetics Foreign Dietitian Education Program (FDE) to prepare Registered Dietitian Nutritionists. The eligibility application was accepted by ACEND in June 2023. The Nutritional Sciences team prepared and submitted the self-study in January 2024. The ACEND accreditors' hybrid site visit took place April 2024. Dr. Huda Huijer and Dr. Mireille Serhan attended the visit in person in Chicago. The rest of the site visit was conducted online and included meetings with faculty, students, and stakeholders as well as numerous meetings with UOB administration and service departments. Recordings were prepared ahead of time with students in classrooms and

clinical sites as well as videos of the two FHS campus facilities. The site visit team submitted their positive report with minimal changes in June 2024 and the FHS and department feedback report was submitted on July 11, 2024. The final decision on accreditation will be announced in January 2025.

**Public Health:** The Public Health Department is working towards achieving accreditation by the Council on Education for Public Health (CEPH); a US accrediting body. The program submitted the Initial Application (IAS) and received feedback. They are currently working on addressing comments by CEPH before starting the self-study.

**Medical Laboratory Sciences:** The Medical Laboratory Sciences Program is seeking accreditation by the Accreditation Agency for Health and Social Sciences (AHPGS); a German accrediting body. Pre-application to be submitted early 2025. The standards provide guidance covering the areas which are vital for successful quality provision and learning environments in higher education.

## FHS STRATEGIC PLANS

"The updated strategic plan for the Faculty of Health Sciences (FHS) builds on the earlier framework by incorporating substantial advancements and refinements to address evolving challenges in the health sector. A key update is the enhancement of the KPI framework, which now includes detailed timelines and actionable steps for monitoring progress and achieving goals across education, research, and community engagement domains. The new plan underscores the expansion of interdisciplinary collaboration, prominently through the Center for Health Research, which is set to boost research output and attract external funding. Strategic partnerships have been strengthened, with an increased number of MOUs signed with hospitals, healthcare centers, and international organizations, facilitating improved clinical training opportunities and community outreach programs.

In education, the updated plan reflects a continued focus on innovative teaching methods, with hybrid and online learning models becoming integral to curricula. Accreditation milestones have been revised, showcasing significant progress toward international recognition for all academic programs. New graduate programs, such as the Human Nutrition track, and continuing education initiatives like the Summer Institute, have been expanded to meet emerging healthcare demands.

In research, there is a notable emphasis on enhancing faculty capacity through professional development, credit releases for research, and interdisciplinary collaborations. The faculty has achieved an increase in research publications and secured new grants. "



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## INTERNATIONAL ADVISORY BOARD

The IAB met in April 2024 and discussed the FHS current programs and new developments and gave valuable feedback to the dean regarding the above.

Antonia Villaruel, Ph.D., Dean of Nursing, University of Pennsylvania, U.S.A. (Chair).

Rana A. Hajjeh, M.D., Director, Program Management, WHO/EMRO, Cairo, Egypt (Co-Chair).

Annemie Schols, Dean Faculty of Health, Medicine, and Life Sciences, University of Maastricht, the Netherlands.

Patricia Davidson, Ph.D., Vice-Chancellor, University of Wollongong, Australia.

Ellen McKenzie Ph.D., Dean Bloomberg School of Public Health, Johns Hopkins University, U.S.A..

Richard Calderone, Ph.D., Professor Microbiology, Georgetown University, USA.

Abraham Goldberg, Ph.D., director, James Madison Center for Civic Engagement, USA.

## INTERDISCIPLINARY PH.D. PROGRAM

The PhD proposal was completed, approved by the UOB administration, and submitted to the Ministry of Education and Higher Education (MEHE) for further approvals.

An interdisciplinary Ph.D. program in health sciences will help Lebanon retain its best talent by providing advanced research training in the country thus providing FHS graduates with an alternative to enrolling in Ph.D. programs in the US or Europe.

A multidisciplinary and international Ph.D. Steering Committee was appointed and the launch is awaiting final approvals by the ministry.

Dr. Huda Huijer (Chair)

Dr. Mireille Serhan (Co-Chair)

Dr. Mira El Chaar

Dr. Myriam Mrad

Dr. Karim Ehtay, Faculty of Medicine

Dr. Jihad Attieh, Faculty of Arts and Sciences

Dr. Margo Brooks, School of Nursing, University of Pennsylvania, USA.

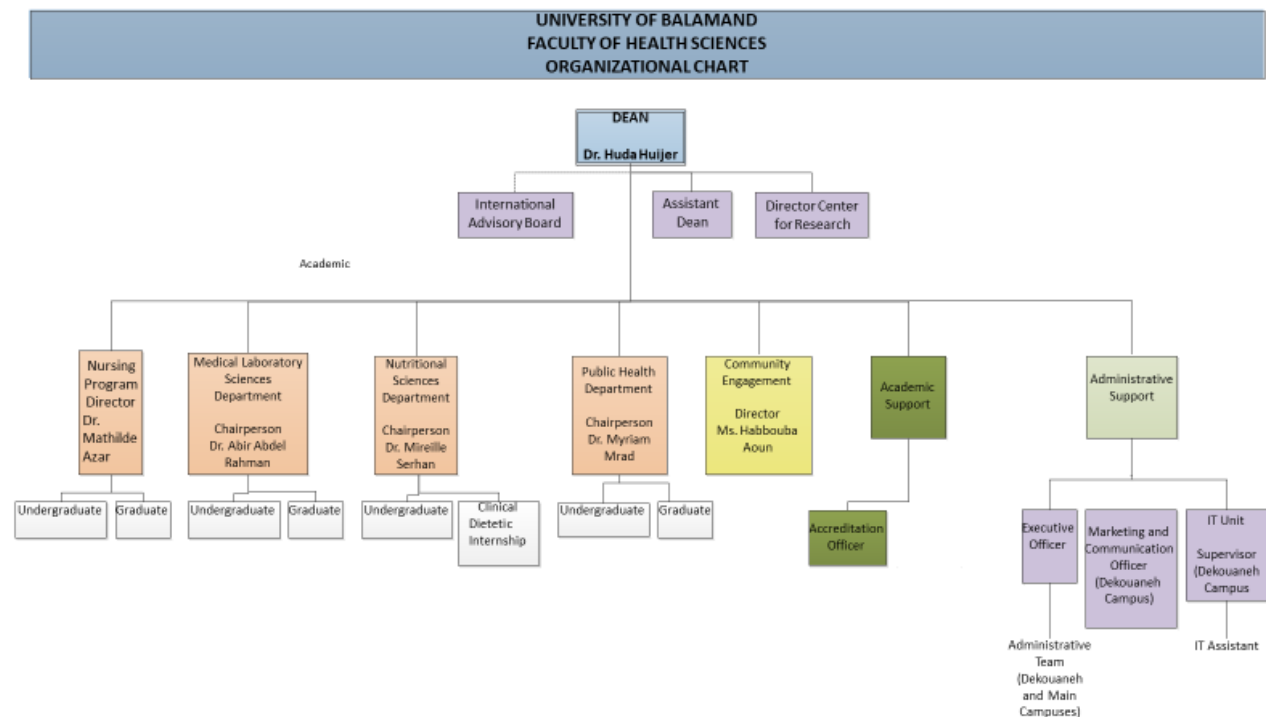
Dr. Annemie Schols, Dean Faculty of Health, Medicine, and Life Sciences, University of Maastricht, Netherlands

Dr. Judy Bass, Bloomberg School of Public Health, Johns Hopkins University. USA.

## FHS NEWSLETTER

- FHS launched its first newsletter September 2021. [Home \(alamand.edu.lb\)](http://www.balamand.edu.lb)
- Newsletter # 2 was launched May 2022. [Home \(alamand.edu.lb\)](http://www.balamand.edu.lb)
- Newsletter # 3 was launched October 2022. [Home \(alamand.edu.lb\)](http://www.balamand.edu.lb)
- Newsletter # 4 <https://www.balamand.edu.lb/faculties/FHS/Newsletter4>
- Newsletter #5 <https://www.balamand.edu.lb/faculties/FHS/Newsletter5>
- Newsletter #6 was launched in September 2024  
<https://www.balamand.edu.lb/faculties/FHS/Newsletter6/Pages/default.aspx>

## FHS ORGANIZATIONAL CHART



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# **FACULTY ACTIVITIES**

## **ACADEMIC PROGRAMS**

### **NURSING PROGRAM**

The Nursing Program offers a Bachelor of Science in Nursing (BSN) and a Master of Science in Nursing (MSN) in English in two fields of specialization: Adult Care and Neonatal and Child Care. It also offers a TS-BSN ladder program that bridges between technical and university education. The program is competency based and offered on three campuses (Al Kurah, Beirut, and Souk El Gharb). The Nursing Program works in partnership with Saint George Hospital University Medical Center (SGHUMC) and Mount Lebanon Hospital – University Medical Center. It has also developed MOUs with different experiential learning settings in Beirut, the North, the Chouf region and the Jabal areas, where students can practice at the primary, secondary, and tertiary levels of health care.

The Nursing Program is currently undergoing accreditation by ACEN, Accreditation Commission for Education in Nursing. The virtual site visit took place in Oct/Nov 2024, and the exit report was positive indicating that all 5 standards and criteria were met with no compliance issues. Final accreditation decision is expected in April/May 2025.

Number of current registered students: 113

Undergraduate students: 95

Graduate students: 18

Number of Alumni: 455

### **NUTRITIONAL SCIENCES DEPARTMENT**

Since its establishment in 2008, the department has emphasized the role of nutrition in the health and well-being of people. The Department of Nutritional Sciences at FHS offers a 3-year Undergraduate program that leads to a Bachelor of Science: BS in Nutritional Sciences with tracks in “Nutrition and Dietetics” and “Premed”, a Diploma in “Clinical and Dietetics Internship” and a minor in Nutritional Sciences.

Currently, the Department has applied to the Accreditation Council for Education in Nutrition and Dietetics (ACEND®) accredited Nutrition and Dietetics Foreign Dietitian Education Program (FDE) to prepare Registered Dietitian Nutritionists. This accreditation enhances the credibility of the study

program and provides evidence of the department's commitment to high standards of education. The hybrid site visit took place in April 2024; program accreditation is expected in January 2025.

The number of current registered students is 45

Number of Alumni Nutritional Sciences 166

Clinical & Dietetics Internship 110

## **MEDICAL LABORATORY SCIENCES DEPARTMENT**

The Medical Laboratory Sciences (MLS) department offers a comprehensive academic and professional training program that prepares students for diverse careers in Clinical Laboratory Sciences, healthcare industry and related fields. The department provides two academic tracks:

1. Bachelor of Science in Medical Laboratory Science:
  - Regular Track
  - Pre-med Track (fulfilling admission criteria to the Faculty of Medicine)
2. Master in clinical Laboratory Sciences offered in two different concentrations:
  - Molecular Biology and Infectious Diseases & Immunology
3. Professional Master Degree in Laboratory Management

Students gain practical experience in state-of-the-art facilities like Saint George Hospital University Medical University Center (SGHUMC), Mount Lebanon Hospital University Medical Center (MLH), Ain Wa Zein Medical Village (AWMV) and other major hospitals in the north governorate and across the nation through eight credit module in clinical training.

Due to the MLS multidisciplinary approach, graduates can pursue postgraduate studies in fields of Clinical Laboratory Sciences such as Molecular Biology, Infectious Disease and Immunology, Clinical Chemistry, Hematology, Physiology, Forensic Toxicology, Laboratory Management, Epidemiology, Public Health and Quality Assurance. MLS is the largest department in the Faculty of Health Sciences (FHS), enrolling 447 students. The program's exceptional admission rate (around 88%) of graduates into the Medical School further attests to its effectiveness in getting students ready to perform well on the MCAT and rank among the best students in the Faculty of Medicine.

The total number of currently registered students is 447:

- Undergraduate 420
- Graduate 50

The total number of alumni 1018:

- BS Medical Laboratory Sciences 951
- MS Clinical Laboratory Sciences 36
- MS Laboratory Management 31

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## **PUBLIC HEALTH DEPARTMENT**

The undergraduate degrees offered by the Public Health Department are recognized in the region for their unique structure, based on the acquisition of solid theoretical knowledge in various Public Health domains and the development of professional and technical skills. Students may select a BS degree in Public Health & Development Sciences; Health Promotion; or follow a Public Health BS degree with a Pre-Med Track. Students may also opt for a dual degree (2 BS Degrees) in both Public Health & Development Sciences and Health Promotion.

The graduate Master of Public Health (MPH) Program prepares students to assume professional roles and be involved in preventing injuries, responding to disasters, encouraging healthier lifestyles, protecting against environmental hazards, contributing to the development of policies, and taking part in important decision-making processes. The MPH Program Department offers 2 tracks: Community Health; and Occupational and Environmental Health.

Total number of current registered students: 74

Number of Alumni: total of 301

MPH Program: 19

## **NEW PROGRAM: HEALTH INFORMATICS POSTGRADUATE CERTIFICATE PROGRAM**

The Post Graduate Program in Health Informatics introduces students to the fundamentals, infrastructure, roles, and tools of health informatics. It delves into the technology and its applications in healthcare. The program emphasizes both conceptual frameworks and practical applications of health information systems. Students will learn about the core concepts and challenges faced by healthcare professionals in the health sector when planning, implementing, and evaluating information systems.

### **Objectives**

The Post Graduate Program in Health Informatics is designed

- to provide students with the knowledge and skills necessary to take a leadership role in the selection and implementation of health care information management systems, and
- to apply the knowledge gained to drive technology in their health care institutions.

The need for Healthcare Informatics certification program has been increasing over the last few years given the following facts:

- The rising importance of health informatics and health information systems for hospital management.
- The need to upgrade the professional competencies and skills of healthcare professionals presently working in various health care institutions.
- The lack of a comprehensive health informatics certification programs offered by expert faculty.

The program is housed in the Faculty of Health Sciences. The dean provides oversight and coordination assisted by FHS faculty and staff. Ms. Hiba Chakhtoura is assigned as coordinator of the program.

Teaching faculty: Ms. Cynthia Abi-Khalil and Dr. Antoine Saab; both specialists in health informatics.

The first cohort of 14 students have successfully completed all 5 courses and were awarded ‘The UOB FHS Certificate in Health Informatics’. A graduation ceremony took place on December 20 in the presence of dean, faculty, coordinators, and significant others.

## **COMMUNITY ENGAGEMENT DEPARTMENT**

The Community Engagement Department continues its community development interventions addressing pressing needs related to risk education and victim assistance, with the support of UNICEF, ITF, and other donors. In 2024, the Department achieved the following projects:

- 1) Explosive Ordnance Risk Education (UNICEF funding)
- 2) Mine Victim Assistance (International Trust Fund)
- 3) Training Community Health Workers (UNICEF funding)
- 4) Training teams of satellite primary health care centers (UNICEF funding)
- 5) Contributing to developing the Ministry of Health Nutrition Curriculum for the National School Health Program
- 6) Contributing to Humanitarian Assistance during the Emergency.



## FACULTY TEACHING

### MEDICAL LABORATORY SCIENCES DEPARTMENT

**Spring 2023-24**

COURSE NUMBER	COURSE NAME	CREDITS	TEACHING FACULTY
CLAS304	Research Methods	3	Abeer Abdel-Rahman
CLAS308	Biotechnology	3	Hala Chamieh
CLAS313	Research Techniques	3	Zeina Dasouki / Mayssam Moussa
CLAS321	Medical Microbiology	3	Mira Chaar
CLAS327	Principles Of Infectious Diseases Control	3	Charbel Bayssari / Mona Haddad
CLAS339	Protein Biochemistry and Proteomics	3	Claudine Accary
CLAS350	Laboratory Management Internship	4	Staff
CLAS351	Database Management and Laboratory Information Systems	3	Rabih Khattar / Ahmad Rayes
CLAS355	Laboratory Marketing Strategies	3	Najate Houkayem
CLAS359	Quality Control in Industries	3	Egnard Abou Haidar / Abdo Habib
CLAS371	Introduction to Forensics	3	Staff
CLAS399	Master's Thesis	6	Staff
MLAB211	Clinical Chemistry I	3	Pamela Melki
MLAB214	Basic and Clinical Immunology	3	Chaza Harmouche / Lara Haddad
MLAB215	Basic and Clinical Hematology	4	Layal Greige / Lara Youssef

MLAB221	Clinical Chemistry II	3	Zeina Dasouki / Layal Greige / Eva Hamade / Ghada Abou Lteif / Jessy Tohme
MLAB223	Clinical Bacteriology	3	Charbel Bayssari / Elias Abdo / Mira Chaar
MLAB224	Medical Parasitology and Mycology	2	Charbel Bayssari / Mira Chaar
MLAB225	Clinical Bacteriology Laboratory	1	Charbel Bayssari / Dina Daaboul / Elias Abdo / Ghada Abou Lteif / Micheline Hajjar / Raymond Hajj
MLAB226	Histotechnology Applications	2	Ram Abou Zaki
MLAB230	Molecular Biology	3	Rim Trad / Zeina Souayfane / Mayssam Moussa
MLAB232	Medical Virology	2	Charbel Bayssari / Mira Chaar
MLAB233	Toxicology	2	Zeina Dassouki / Pamela Melki
MLAB249	Phlebotomy, Blood Bank and Transfusion Medicine	2	Zeina Dasouki / Liza
MLAB251	Applied Clinical Chemistry	1	Layal Greige / Ghada Abou Lteif / Jessy Tohme / Staff
MLAB252	Applied Clinical Hematology	1	Layal Greige / Ghada Abou Lteif / Jessy Tohme / Staff
MLAB253	Applied Clinical Bacteriology and Mycology	1	Layal Greige / Ghada Abou Lteif / Jessy Tohme / Staff
MLAB254	Applied Clinical Parasitology and Body Fluids Analysis	1	Layal Greige / Ghada Abou Lteif / Jessy Tohme / Staff
MLAB255	Applied Clinical Immunology and Endocrinology	1	Layal Greige / Ghada Abou Lteif / Jessy Tohme / Staff
MLAB256	Applied Blood Banking	1	Layal Greige / Ghada Abou Lteif / Jessy Tohme / Staff
MLAB257	Applied Anatomic Pathology	1	Layal Greige / Ghada Abou Lteif
MLAB258	Techniques in Molecular Biology and Assisted Reproduction	1	Layal Greige / Zeina Souayfane / Mayssam Moussa

## Summer 2023-24

COURSE NUMBER	COURSE NAME	CREDITS	TEACHING FACULTY
CLAS399	Master's Thesis	6	Staff
MLAB214	Basic and Clinical Immunology	3	Lara Haddad
MLAB221	Clinical Chemistry II	3	Staff
MLAB223	Clinical Bacteriology	3	Staff
MLAB230	Molecular Biology	3	Rim Trad / Zeina Souayfane
MLAB232	Medical Virology	2	Staff
MLAB233	Toxicology	2	Claudine Accary / Zeina Souayfane / Mohammad Omeiri
MLAB251	Applied Clinical Chemistry	1	Layal Greige / Ghada Abou Lteif / Jessy Tohme / Staff
MLAB252	Applied Clinical Hematology	1	Layal Greige / Ghada Abou Lteif / Jessy Tohme / Staff
MLAB253	Applied Clinical Bacteriology and Mycology	1	Layal Greige / Ghada Abou Lteif / Jessy Tohme / Staff
MLAB254	Applied Clinical Parasitology and Body Fluids Analysis	1	Layal Greige / Ghada Abou Lteif / Jessy Tohme / Staff
MLAB255	Applied Clinical Immunology and Endocrinology	1	Layal Greige / Ghada Abou Lteif / Jessy Tohme / Staff
MLAB256	Applied Blood Banking	1	Layal Greige / Ghada Abou Lteif / Jessy Tohme / Staff
MLAB257	Applied Anatomic Pathology	1	Layal Greige / Ghada Abou Lteif

## Fall 2024-25

COURSE NUMBER	COURSE NAME	CREDITS	TEACHING FACULTY
CLAS310	Advanced Principles of Immunology	3	Rima Kamel / Mohamad Abou Hamdan
CLAS312	Epidemiology and Biostatistics	3	Sarah Omari

CLAS320	Cellular and Molecular Biology	3	Ali Mansour / Rima Kamel / Mayssam Moussa
CLAS336	Genomics	3	Shaya Salman
CLAS340	Laboratory Quality Management Systems and Accreditation	3	Toufic Saber
CLAS346	Laboratory Financial Management	3	Jihad Houkayem
CLAS350	Laboratory Management Internship	4	Staff
CLAS353	Laboratory Human Resource Management	3	Cynthia Zouein
CLAS355	Laboratory Marketing Strategies	3	Najate Houkayem
CLAS357	Managing Laboratory Equipment and Set up	3	Rima Abou Tarieh
CLAS360	Research Methodologies and Biostatistics	3	Abeer Abdel-Rahman / Mathilde Azar
CLAS399	Master's Thesis	6	Staff
MLAB211	Clinical Chemistry I	3	Zeina Dasouki / Claudine Accary / Eva Hamade / Pamela Melki
MLAB213	General Microbiology	3	Charbel Bayssari / Elias Abdo / Mira Chaar
MLAB214	Basic and Clinical Immunology	3	Chaza Harmouche / Elias Abdo / Nadine Ghotmi / Mohamad Abou Hamdan
MLAB215	Basic and Clinical Hematology	4	Layal Greige / Rolla Khatib
MLAB221	Clinical Chemistry II	3	Eva Hamade
MLAB223	Clinical Bacteriology	3	Elias Abdo
MLAB224	Medical Parasitology and Mycology	2	Charbel Bayssari / Elias Abdo / Mira Chaar
MLAB225	Clinical Bacteriology Laboratory	1	Charbel Bayssari / Dina Daaboul / Elias Abdo / Ghada Abou Lteif / Micheline Hajjar / Raymond Hajj
MLAB226	Histotechnology Applications	2	Hyam Soufi / Lara Youssef
MLAB230	Molecular Biology	3	Chaza Harmouche / Hyam Soufi / Mayssam Moussa
MLAB232	Medical Virology	2	Mira Chaar
MLAB233	Toxicology	2	Pamela Melki
MLAB249	Phlebotomy, Blood Bank and Transfusion Medicine	2	Layal Greige / Zeina Dassouki / Jessy Tohme / Salwa Abdel Khalek
MLAB251	Applied Clinical Chemistry	1	Layal Greige / Ghada Abou Lteif / Jessy Tohme / Staff
MLAB252	Applied Clinical Hematology	1	Layal Greige / Ghada Abou Lteif / Jessy Tohme / Staff
MLAB253	Applied Clinical Bacteriology and Mycology	1	Layal Greige / Ghada Abou Lteif / Jessy Tohme / Staff
MLAB254	Applied Clinical Parasitology and Body Fluids Analysis	1	Layal Greige / Ghada Abou Lteif / Jessy Tohme / Staff

## NURSING PROGRAM

### Spring 2023-24

COURSE NUMBER	COURSE NAME	CREDITS	TEACHING FACULTY
NURS211	Introduction to Nursing Practice	4	Peggy Germanos / Rabab Hourany / Hiba Habib
NURS242	Nursing Care of Adults II	5	Jessica Finianos / Rabab Hourany / Hiba Habib
NURS244	Nursing Care of Children	5	Peggy Germanos / / Mathil Azar/Nour Jabbour/ Nadine Hajj
NURS245	Nursing Care of the Elderly	2	Yara Serhan / Manal Said/Christine Ailabouni
NURS250	Leadership and Management in Nursing and Health	5	Jessica Finianos / Rabab Hourany / Mathilde Azar / Hiba Habib/ Manal Said
NURS251	Internship	10	Peggy Germanos / Rabab Hourany / Hiba Habib
NURS300	Role Development in Leadership and Healthcare Management	3	Mathilde Azar
NURS314	Management of Adult with Acute and Chronic Conditions	4	Staff
NURS398	Project	3	Mathilde Azar /Staff
NURS399	Master's Thesis	6	Mathilde Azar /Staff

### Summer 2023-24

COURSE NUMBER	COURSE NAME	CREDITS	TEACHING FACULTY
NURS212	Legislation and Nursing	1	Jack Chalouhy Jessica Chalhoub
NURS214	Service Training I	2	Peggy Germanos / Rabab Hourany / Hiba Habib
NURS215	Service Training II	2	Jessica Finianos / Rabab Hourany / Hiba Habib
NURS216	Health Assessment	2	Peggy Germanos / Rabab Hourany / Hiba Habib
NURS246	Mental Health and Psychiatric Nursing	4	Marianne Chamoun / Fouad Dernaika / / Nancy Masri / Saydeh Harmouche / Rabih Tamim/ Staff
NURS306	Clinical Decision Making and Management in Neonatal and Child Care II	4	Mathilde Azar /Staff

NURS315	Clinical Decision Making and Management in Adult Care I	4	Mathilde Azar /Staff
NURS316	Clinical Decision Making and Management in Adult Care II	4	Mathilde Azar /Staff
NURS317	Therapeutic Communication and Palliative/End of Life Care	2	Silva Sailian/ Najibe Assaad/ Chantal Khadra
NURS398	Project	3	Mathilde Azar / Staff
NURS 399			Mathilde Azar / Staff

## Fall 2024-25

COURSE NUMBER	COURSE NAME	CREDITS	TEACHING FACULTY
FHSC202	Introduction to Human Anatomy	2	Nabbout, Ghassan/ Zeina Soayfane / Nagham Azar
FHSC211	Pathophysiology	3	Nabbout, Ghassan/ Zahran Maysam / Mohamad Issa / Habib, Hiba / Nagham Azar
FHSC229	Pharmacology	2	Dernaika, Fouad/ Masri, Nancy / Tamim, Rabih
FHSC271	First Aid	1	Red Cross team
FHSC280	Information Technology and Health Sciences	2	Jreije, Jocelyne/ Haddad, Samir / Habib, Hiba / Joseph Merhej
FHSC282	Principles of Epidemiology and Biostatistics	3	Harb, Frederic Gregory Joseph/ Jurdi, Saada / Saliba, Jessica
FHSC288	Research in Health Care Sciences	3	Hamouch, Chaza / AbdelRahman, Abir / Azar, Mathilde
NURS210	Introduction to Professional Nursing	2	Jessica Finianos / Rabab Hourany / Hiba Habib
NURS241	Nursing Care of Adults I	5	Peggy Germanos / Rita Soueify/ Hiba Habib / Christine Azar
NURS247	Nursing Care in Perinatology and Gynecology	4	Peggy Germanos / Rita Kousseify / Mathilde Azar / Rola Zebyane / Jessica Barbour /
NURS248	Nursing Care of Adults in Critical Condition	4	Hiba Habib / Mayssam Zahran / / Christine Azar
NURS249	Nursing in the Community	5	Jessica Finianos / Rabab Hourany / Vicky Georges
NURS316	Clinical Decision Making and Management in Adult Care II	4	Mathilde Azar
NURS398	Project	3	Mathilde Azar / Jessica Finianos / Rachelle Bejjani / Christine Azar
NURS399	Master's Thesis	6	Mathilde Azar / Mirna Fawaz / Jessica Finianos / Christine Azar



## NUTRITIONAL SCIENCES DEPARTMENT

### Spring 2023-24

COURSE NUMBER	COURSE NAME	CREDITS	TEACHING FACULTY
<a href="#">NUSC200</a>	Basic Human Nutrition	3	Rouaiheb (El), Hiba/Mnayer, Dima
<a href="#">NUSC202</a>	Lifecycle Nutrition	3	Rouaiheb (El), Hiba
<a href="#">NUSC211</a>	Nutrition Counseling and Communication	3	Rizk, Maud
<a href="#">NUSC214</a>	Therapeutic Nutrition II	3	Rizk, Maud
<a href="#">NUSC215</a>	Therapeutic Nutrition II Lab.	1	Rizk, Maud
<a href="#">NUSC220</a>	Community Nutrition I	3	Rouaiheb (El), Hiba/ Karam, Joanne
<a href="#">NUSC239</a>	Applied Food Analysis	3	Serhan, Mireille/Mnayer, Dima
<a href="#">NUSC241</a>	Special Topics in Nutrition and Food	2	Rouaiheb (El), Hiba/Deghel, Maria/ Rizk Maud, Mnayer, Mnayer
<a href="#">NUSC300B</a>	Practicum II	15	Daher, Mira
<a href="#">NUSC302</a>	Seminars in Clinical Dietetics II	3	Daher, Mira

### Summer 2023-2024

COURSE NUMBER	COURSE NAME	CREDITS	TEACHING FACULTY
NUSC200	Basic Human Nutrition	3	Rouaiheb (El), Hiba

### Fall 2024-25

COURSE NUMBER	COURSE NAME	CREDITS	TEACHING FACULTY
NUSC201	Human Nutrition and Metabolism	3	Rouaiheb (El), Hiba/ Daher, Mira
NUSC203	Food Microbiology	3	Deghel, Maria/Assaad, Chafica
NUSC204	Food Chemistry	3	Obeid, Pierre /Mnayer Dima
NUSC208	Public Health Nutrition and Food Hygiene	3	Rouaiheb (El), Hiba/Mnayer, Dima
NUSC210	Food Service Management	3	Mnayer Dima, Hteit Racha
NUSC212	Therapeutic Nutrition I	3	Rizk, Maud
NUSC213	Therapeutic Nutrition I Lab.	1	Rizk, Maud

NUSC240	Applied Food Processing	3	Serhan, Mireille/ Mnayer, Dima
NUSC300A	Practicum I	15	Daher, Mira
NUSC301	Seminars in Clinical Dietetics I	3	Daher, Mira

## PUBLIC HEALTH DEPARTMENT

### Spring 2023-24

COURSE	COURSE NAME	CREDITS	TEACHING FACULTY
MPHP304	Health Economics	3	Caroline Daccache
MPHP305	Social Behavioral Determinants of Health in a Global World	3	Staff
MPHP306	Basic Theories of Health Promotion	3	Dominique Dano
MPHP308	Public Health Ethics	1	Nivine Abbas
MPHP309	Public Health Policy, Law and Advocacy	2	Berj Hatjian / Youssef Naddaf
MPHP312	Health Services and Management	3	Abdo Habib
MPHP316	Community Health Assessment	3	Habbouba Aoun
MPHP317	Community Program Planning, Implementation, Monitoring and Evaluation	3	Sabine Abdel Sater
MPHP319	Occupational Well-Being, Health, Hygiene, and Safety	3	Berj Hatjian
MPHP320	Selected Topics in Community Health	3	Nivine Abbas
MPHP321	HSE Management Principles and Methods	3	Nassab Khalife
MPHP341	Practicum I	3	Myriam Mrad
MPHP350	Practicum II	3	Myriam Mrad / Emile Whaibeh / Jowdy Abi Hanna / Nivine Abbas
PDHP201	Environment, Health, and Development	3	Nivine Abbas / Emile Whaibeh
PDHP227	Occupational Health and Hygiene	3	Myriam Mrad / Berj Hatjian

PDHP245	Issues in Community Health and Development	3	Youssef Naddaf
PDHP247	Economics in Environment, Health, and Development	3	Caroline Daccache / Myriam Mrad
PDHP248	Quality Management Systems	2	Myriam Mrad
MPHP304	Health Economics	3	Caroline Daccache
MPHP305	Social Behavioral Determinants of Health in a Global World	3	Staff
MPHP306	Basic Theories of Health Promotion	3	Dominique Dano
MPHP308	Public Health Ethics	1	Nivine Abbas

#### Summer 2023-2024

COURSE NUMBER	COURSE NAME	CREDITS	TEACHING FACULTY
MPHP304	Health Economics	3	Caroline Daccache
MPHP341	Practicum I	3	Jessica Saliba
MPHP350	Practicum II	3	Myriam Mrad
MPHP304	Health Economics	3	Caroline Daccache

#### Fall 2024-25

COURSE NUMBER	COURSE NAME	CREDITS	TEACHING FACULTY
FHSC269	Health Care Management and Administration	3	Nemer, Denise
MPHP301	Biostatistics	3	Mobadda Assi
MPHP303	Environmental Health Sciences	3	Staff
MPHP308	Public Health Ethics	1	Nivine Abbas
MPHP309	Public Health Policy, Law and Advocacy	2	Berj Hatjian
MPHP315	Research Design	3	Jessica Saliba
MPHP341	Practicum I	3	Jessica Saliba
MPHP350	Practicum II	3	Jowy Abi Hanna / Jessica Saliba / Emile Whaibeh / Lina Jaalouk / Nivine Abbas

PDHP214	Family Health	3	Lina Jaalouk /Saada Jurdi / Sabine Abdel Sater
PDHP219	Introduction to Public Health	3	Lina Jaalouk / Saada Jurdi
PDHP226	Sanitation and Resource Management for Public Health	3	Emile Whaibeh / Alicia Abi Nader / Myriam Mrad
PDHP231	Public Administration and Policy in Lebanon	3	Nivine Abbas / Youssef Naddaf
PDHP237	Public Health Communications in the Arab World	3	Lina Jaalouk / Saada Jurdi
PDHP238	Environmental Management in Public Health Practice	3	Emile Whaibeh / Alicia Abi Nader / Berj Hatjian
PDHP242	Public Health and Urban Environment	3	Nivine Abbas / Hadiya-Leya Affara / Nivine Abbas / Staff
PDHP249	Toxicology and Human Health Risk Assessment	3	Emile Whaibeh / Alicia Abi Nader / Myriam Mrad
MPHP301	Biostatistics	3	Mobadda Assi
MPHP303	Environmental Health Sciences	3	Staff

## STUDENTS THESES AND PROJECTS

Name	Defense Date	Project or Thesis	Project Title	Project/Thesis Committee
Alicia Abi Nader	29 May, 2024	Project	COMMUNITY ENVIRONMENTAL HEALTH AWARENESS: ENDING CHILDHOOD LEAD POISONING DURING THE INTERNATIONAL LEAD POISONING PREVENTION WEEK	Myriam Mrad Nakhlé, Lina Jaalouk, Jowy Abi Hanna
Asrar Al Danaf	28 May, 2024	Project	INTEGRATED HOSPITAL OCCUPATIONAL SAFETY INITIATIVE AND JCI ACCREDITATION IN A LEBANESE PRIVATE HOSPITAL	Jowy Abi Hanna, Emile Whaibeh, Myriam Mrad

Hala Amine	28 May, 2024	Project	AN INTERNSHIP JOURNEY OF ENVIRONMENTAL SUSTAINABILITY AND ENHANCING QUALITY TRAINING MATERIALS	Jowly Abi Hanna, Emile Whaibeh, Myriam Mrad
Mabelle Dannawi	8 May, 2024	Project	COLLEGE OF AMERICAN PATHOLOGISTS (CAP)-COMPLIANT POLICIES FOR THE PATHOLOGY LABORATORY	Nivine Abbas, Myriam Mrad,Jowly Abi Hanna
Mahmoud Khodor	18 July, 2024	Project	IMPLEMENTATION OF INFECTION PREVENTION AND CONTROL QUALITY STANDARDS IN “MOTHER & CHILD CARE” PRIMARY HEALTH CARE CENTER (PHCC) IN MECHMECH.	Jowly Abi Hanna, Emile Whaibeh, Myriam Mrad
Maria Habeshian	8 May, 2024	Project	ENSURING CORRECT AND COMPLETE PATIENT FILE DOCUMENTATION: A DATA DRIVEN QUALITY ENHANCEMENT APPROACH AT CHTOURA HOSPITAL	Jessica Saliba, Jowly Abi Hanna, Myriam Mrad
Maria Kertenian	13 May, 2024	Thesis	“IF YOU CANT PUT YOURSELF IN SOMEONE ELSE'S SHOES, YOU CANT BE A NURSE”: A QUALITATIVE STUDY ON NURSES COMPASSION	Mathilde Azar, Silva Sailian, Huda Huijjer, Gladys Honein, Jessica Finianos
Maya Rifai	8 May, 2024	Project	ASSESSMENT AND ENHANCEMENT OF OCCUPATIONAL HEALTH AND SAFETY (OHS) PRACTICES AT CITCO: CONFECTIONERY INDUSTRY AND TRADING COMPANY	Emile Whaibeh, Myriam Mrad, Jowly Abi Hanna

Mohamad Freij	21 February, 2024	Thesis	CHARACTERISTICS AND OUTCOME OF COVID-19 PATIENTS ADMITTED TO THE ICU DURING THE PANDEMIC: A PILOT STUDY	Micheline Hajjar, Abir Abdel Rahman, Elias Abdo, Houssein Al-Attrache
Rasha Basso	29 May, 2024	Thesis	CHITOSAN-HYALURONIC ACID POLYELECTROLYTE MULTILAYER FILMS AS A PLATFORM FOR THE SPONTANEOUS CHONDROGENIC DIFFERENTIATION OF WHARTON'S JELLY MESENCHYMAL STEM CELLS FOR TISSUE ENGINEERING IN OSTEOARTHRITIS	Chaza Harmouch, Lara Haddad, Eva Hamade, Marc Karam, Maysam Moussa
Rayan Osman	8 May, 2024	Project	OVERVIEW OF THE NEWLY INTRODUCED LEBANESE GUIDELINES ON GOOD PHARMACOVIGILANCE PRACTICES	Jessica Saliba, Myriam Mrad, Lina Jaalouk
Romy Louis	8 May, 2024	Project	YOUTH'S ROLE IN ACTIVE ENGAGEMENT IN JOUNIEH COMMUNITY SPECIALLY IN HEALTH POLICIES	Nivine Abbas, Myriam Mrad, Jowy Abi Hanna
Rusul Alwash	29 May, 2024	Project	INFECTION CONTROL POLICY: STRENGTHENING HOSPITAL SAFETY MEASURES IN THE MIDDLE EAST HOSPITAL	Nivine Abbas, Myriam Mrad, Jowy Abi Hanna
Yara Matar	18 July, 2024	Thesis	QUALITY MANAGEMENT SYSTEM OF HERA: THE OVERVIEW	Myriam Mrad, Jowy Abi Hanna, Emile Whaibeh
Ayah Dasuki	2 August, 2024	Thesis	SCREENING FOR ANTIBACTERIAL ACTIVITY OF THE EXTRACTS OBTAINED FROM FICUS CARICA & MALVA SYLVERSTRIS	Josiane Hage, Charbel Al Bayssari, Mira Al Chaar, Elias Abdou

			ON HIGHLY DRUGRESISTANT BACTER	
Rola Al Aridi	2 August, 2024	Thesis	EVALUATING THE EFFECT OF INULA VISCOSA AND PRUNUS DULCIS LEAF EXTRACTS ON GRAM- NEGATIVE MULTI- DRUG RESISTANT MICROBES	Josiane Hage, Charbel Al Bayssari, Mira Al Chaar, Elias Abdou
Yara- Lynne El Khoury	4 January , 2024	Project	COLONISATION OF HOSPITALIZED PATIENTS WITH CARBAPENEM, 3GC RESISTANT GRAM- NEGATIVE ORGANISM: A LONGITUDINAL STUDY	Mira El Chaar, Mona Youssef, Elias Abdo, Charbel Baysari
Serena Barakat	8 May, 2024	Project	PATIENT FOOD SERVICES SATISFACTION SURVEY AT AL-HAYAT HOSPITAL	Jessica Saliba, Myriam Mrad, Lina Jaalouk
Cynthia Najjoun	5 August, 2024	Thesis	“CARBAPENEMASE GENES IN CARBAPENEM- RESISTANT PSEUDOMONAS AERUGINOSA: EXPERIMENTAL RESEARCH INSIGHTS INTO CARBAPENEMASE PRODUCING PSEUDOMONAS AERUGINOSA”	Charbel Bayssari, Dina Daaboul, Elias Abdou, Mira Chaar,
Pamela Al Ghossein	30 August, 2024	Thesis	EFFECT OF JANIA RUBENS ALGAL EXTRACT ON AN IN VITRO MODEL OF INFLAMMATORY BOWEL DISEASE	Lara Haddad, Mayssam Moussa, Raghida Damaj, Zeina Dassouki, Elias Abdou

## STUDENT-RELATED ACTIVITIES

### STUDENT ENROLLMENT

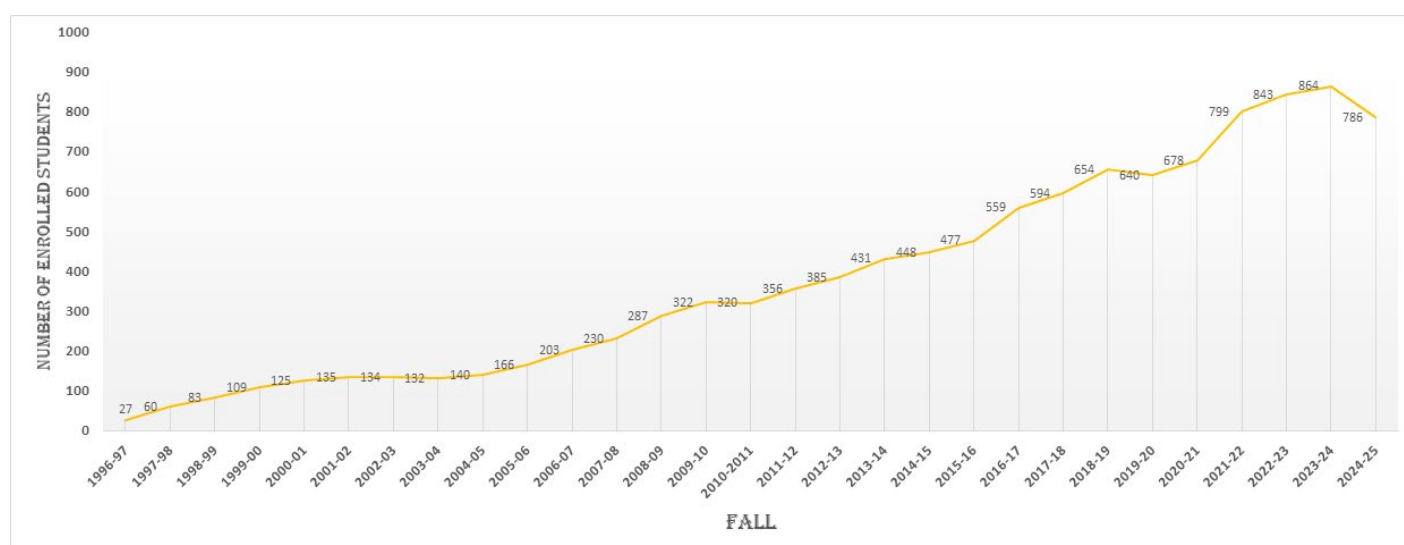
**Table 1: FHS enrolment statistics in the last 6 years**

#### FHS STUDENT ENROLLMENT

	Fall 2019-20		Fall 2020-21		Fall 2021-22		Fall 2022-23		Fall 2023-24		*Fall 2024-25	
Applications	411		471		778		982		786		570	
Accepted Applications	212		270		374		463		605		425	
Newly enrolled	161		218		254		282		219		161	
Overall enrolled	<b>640</b>		<b>678</b>		<b>799</b>		<b>843</b>		<b>864</b>		<b>786</b>	
Yield	75.94%		80.74%		67.91%		60.91%		36.20%		37.88%	
International Students	5.47%		6.05%		5.65%		6.98%		7.29%		9.54%	
Gender	F	M	F	M	F	M	F	M	F	M	F	M
% Gender	72%	28%	70%	30%	71%	29%	74%	26%	74%	26%	73%	27%



**Figure 1: FHS Students' Enrollment Trend in the past 25 years**



MAJOR	Fall 22-23	Spring 22-23	Summer 2023	Fall 23-24	Fall 24-25
BS - Nursing	123	124	96	116	94
BS - Nursing - F	21	21		12	1
BS - Nutritional Sciences	41	45	22	41	46
BS - Medical Laboratory Sciences	404	425	268	465	420
BS - Public Health and Development Sciences	71	73	45	79	74
MS - Nursing	18	20	15	20	15
MS - Clinical Laboratory Sciences	41	43	5	36	28
MS - Clinical Laboratory Sciences (Lab Management)	28	20	5	22	23
Master - Public Health	67	58	16	38	16
Clinical and Dietetics Internship	10	10		10	3
FHS - Majorless	4	3	1	9	7
SOP - SOP Health Sciences	5	2	1	7	7
PMED - Premedical Program - Dekouaneh	15	11		10	27
SP - Special Health					2
SP - Special MPH					3
FS - Freshman Sciences -Al Kurah	1				
<b>TOTAL</b>	<b>849</b>	<b>855</b>	<b>474</b>	<b>864</b>	<b>770</b>

CAMPUS	Fall 22-23	Spring 22-23	Summer 2023	Fall 23-24	Fall 24-25
Balamand - Al Kurah	225	233	129	262	265
Dekouaneh	492	482	255	469	392
Souk Al Gharb - Aley	132	140	90	133	113

## STUDENT RECRUITMENT AND MARKETING

The recruitment committee at FHS was proactive in doing many activities in close collaboration with the recruitment office. The committee scheduled two online information sessions, and committee members contributed to many school visits, open doors and school fairs. The committee organized the Health Open Day at the Dekwenh campus in collaboration with Mount Lebanon Hospital supported by the municipality. The event featured active participation from various departments and programs within FHS. One of the highlights of the Open Health Day was the provision of free medical examinations by Healthcare professionals from MLHUMC. The departments followed up on applicants who selected FHS as their first choice and assisted them in completing the registration process.

## RESEARCH AND SCHOLARLY ACTIVITIES

### CENTER FOR HEALTH RESEARCH (CHR)

The Faculty of Health Sciences embarked on an exciting new venture in September 2022 with the launch of the Center for Health Research. This center was established with the primary goal of advancing and enhancing research activities within the faculty, fostering a collaborative and informed community, and promoting capacity building among students and faculty. The center serves as a hub of knowledge and expertise, aiming to boost the Faculty of Health Sciences to new heights in research excellence.

The Center for Health Research aims to facilitate interdisciplinary research collaboration, encouraging faculty members to share their latest research findings and insights with their colleagues through the "Lecture Series". These engaging lectures create a platform for faculty to delve into diverse topics, exchange knowledge, and generate valuable discussions that enrich the collective understanding within the Faculty.

Secondly, the center recognizes the importance of international perspectives and expertise in the field of research. To this end, it organizes the "Methodology Corner," a lecture series where national and internationally renowned experts are invited to share their insights on various research-related topics. These sessions serve as valuable learning opportunities for students and faculty alike, enabling them to gain exposure to cutting-edge methodologies and best practices.

**Lecture Series and Methodology Corners:** In line with its commitment to advancing health sciences research, the center has conducted several compelling lectures under the "Lecture Series" and "Methodology Corner". These sessions featured speakers who explored a diverse array of topics relevant to the field.

	Date	Presenter	Title
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October 2023	Tuesday 31	Dr. Zeina Dasouki	Novel Therapeutic Approaches in Malignant Diseases
November 2023	Tuesday 7	Dr. Jessica Saliba	Smoking: An Old Trouble with New Challenges. Research at the FHS
	Tuesday 14	Dr. Angela Massouh	Appraisal, Burnout and Coping in Dyads Living with a Chronic Illness
	Thursday 23	Dr. Elie Akl	Systematic Review Methodology
	Thursday 30	Dr. Ziad Mahfoud	Randomized Clinical Trials: Important Design and Analysis Concepts
February 2024	Tuesday 6	Dr. Mireille H. Serhan	Impact of nutrition service attributes on patient satisfaction
	Thursday 29	Dr. Gladys Honein	The value of using mixed-methods design in health care research
March 2024	Tuesday 19	Dr. Suzanne Dhainy	Complex Intervention from design to implementation... how to ensure sustainability?
April 2024	Tuesday 2	Dr. Melissa Makhoul	Moving Beyond Exploring Negative Pain-Related Psychological Factors: A Resilience Approach to Chronic Pain
May 2024	Thursday 9	Dr. Rima Saad	Pediatric Palliative Care through the eyes of parents of children with cancer.
	Thursday 23	Dr. Mira Daher	Exploring the MIND diet: nourishing cognitive health through nutrition
June 2024	Tuesday 11	Dr. Maysam Moussa	Research Lab at DEK Campus: New Perspectives and Challenges.

**FHS Funding:** FHS has attracted support from a number of external funders including NIH, IOM, WHO, the Ministry of Health, the Lebanese National Council for Scientific Research (LNCSR), Pfizer Pharmaceuticals, UOB Research Board (URB), the Order of Nurses in Lebanon, UNICEF, UNDP, Investigator start-up funds, University of Maryland, Dubai Health Authority (DHA), USJ Research Fund, and seed money. A number of research projects were recently completed, and many undertaken jointly with researchers from other disciplines.

**GEOHealth Hub on Climate Change and Health in the Middle East and North Africa** is the fruitful outcome of a national, regional, and international faculty collaboration. Funded by the National Institutes for Health, the GEOHealth Hub is one of seven Global Environmental and Occupational Health hubs dedicated to high priority health research, data management, curriculum and material development, training activities, and policy support. This program is an international consortium focused on climate change and its impact on health. The University of Balamand, the Jordan University of Science and Technology – JUST, the Mohamed VI University for Health Sciences, the Harvard School of Public Health Center for Environmental Health, the University of California San Diego, the University of California Berkeley, along with the U.S. Center for

Disease Control and Prevention, and WHO's Center for Environmental Health Action (CEHA) partnered to address the impacts of climate change on health, water, and air pollution and identify gaps and areas of development in environmental and public health through research, training, and capacity building.

The University of Balamand's program is led by Dr. Myriam Mrad, consortium, and country principal investigator. Dr. Myriam Mrad and her multidisciplinary team are working on various projects under the GEOHealth Hub such as the impact of air pollution on respiratory, cardiovascular, and skin allergic diseases' health outcomes in Beirut, Lebanon among vulnerable groups, the effects on environmental exposures on Lebanese pregnant women and infants, and healthcare system's resilience to climate change.

In conclusion, with the Center for Health Research in place, the Faculty of Health Sciences at the University of Balamand is poised to accelerate its research efforts, foster academic growth, and contribute significantly to the advancement of health sciences in Lebanon and beyond. The center's commitment to collaboration, capacity building, and excellence in research sets the stage for a promising future of continuous discovery and innovation in the field of health sciences.

The Public Health Department at the Faculty of Health Sciences received an administrative supplement fund approximately \$71,000 USD from the University of California San Diego through funding from the United States National Institutes of Health (NIH) to participate in the first-of-its-kind graduate level fellowship in Climate Change Research and Action. The Country's Principal Investigator for this program is Dr. Myriam Mrad who is the Chairperson of the Public Health Department, and will lead in the training of 15 Lebanese decision makers from ministries and organizations through hands on training on research methods, applications, and skills to address climate change related health outcomes. This will include climate change relevant preparedness and disaster management.

The project is led by Dr. Wael Al-Delaimy professor at the Herbert Wertheim School of Public Health and Human Longevity Science at University of California San Diego, which will offer the fellowship certification to trainees in Lebanon. The training will feature world experts and Lebanese instructors who will jointly provide training both in-person and virtually.

Additionally, a key outcome of the project will be the establishment and activation of the Lebanese National Committee on Climate Change and Health to foster inter-ministerial collaboration and cooperation, which will be crucial in the upcoming period of national reconstruction and development.

Another grant was also received by the Public Health Department, led by the PI Dr. Myriam Mrad from the University of Chicago, the Energy Policy Institute (EPIC). This project marks a milestone as it creates a new unique approach in dealing with air pollution and health effects. The AWAIR project is a partnership between University of Balamand and the Health and Environment Response Agency (HERA) aiming to breathe new life into air quality monitoring in Lebanon by promoting data-driven policies, raising public awareness, and encouraging community involvement. Through the reactivation of a reference grade monitoring station and the deployment of multiple low-cost PM 2.5 sensors in schools, universities, hospitals, primary healthcare centers, and social spaces including embassies, municipalities, and commercial areas across Lebanon, air pollution data will be made publicly available. The AWAIR Project will highlight the health, environmental, and economic impacts of air pollution via social media campaigns, community events, and partnerships with schools and universities. An interactive online platform will be created to provide real-time air quality data and educational resources. By empowering communities to monitor air quality, citizens can propose local solutions, strengthening public health advocacy and supporting long-term clean air initiatives.

## FHS RESEARCH PROJECTS

### **Principle Investigation: Nivine Abbas**

#### **Factors influencing the participation of adolescents in research related to sexual and reproductive health in the Arab Region**

The purpose of this study is to explore the factors that influence the participation of adolescents in research related to sexual and reproductive health in the Arab Region.

**Co- investigators:** Maryam Aly, Henry Silverman

**Funding:** University of Maryland

**Status:** finalizing and editing the article

### **Principal Investigator: Nivine Abbas**

#### **Exploring the Drivers of Hesitancy towards COVID-19 Vaccine among Syrian Refugees Residing in Mount Lebanon: A Qualitative Study**

This study aimed to explore the reasons for Covid-19 vaccine hesitancy among middle-aged adults of Syrian Refugees in Mount Lebanon. A qualitative study design and an ethnographic approach were adopted.

**Co-investigators:** Masa Al Fakih, Lara Obeid, Emile Whaibeh

**Funding:** none

**Status:** paper submitted to journal

### **Corresponding author: Nivine Abbas**

#### **Global Smoking Policies review**

This review will include a historical overview of globally smoking policies as well as important smoking policy measures. It will also include some case studies of success or limited success. It will additionally cover problems and barriers, lessons learned, and suggestions.

**Co- authors:** Jessica Saliba, Myriam Mrad, Reem Samhoun (MPH student), Hilda Saab (MPH student)

**Status:** ongoing

### **Principal Investigator: Nivine Abbas**

#### **Knowledge and attitude of university students in Lebanon towards female breast cancer**

In this study, we explore the knowledge and attitudes of Lebanese university students, males, and females, toward breast cancer. The study will have a cross-sectional design across all faculties at the University of Balamand

**Co-investigators:** Nivine Abbas, Yara El Koussa, Cedric Mhasseb, Ziad Koussa, George Farah, Jihad Hawi, Fadi W. Abdul-Karim

**Funding:** none

**Status:** paper submitted to journal

### **Principal Investigator: Abir Abdel-Rahman**

#### **Predictors of the intake of sugar sweetened beverages and water among high school students in Lebanese public schools using the theory of planned behavior**

This study aims to test the extent to which the theory of planned behavior (attitude, subjective norms and perceived behavioral control) can predict the students' intentions to drink SSBs and water. In addition, to test

the extent to which the theory of planned behavior (attitude, subjective norms and perceived behavioral control) can predict the intake behavior of SSBs and water intake.

**Co-investigators:** Bahia Abdallah and Habbouba Aoun.

**Funding:** UOB Research Grant

**Status:** Ongoing

**Principal Investigator:** Abir Abdel-Rahman

**Physicians' perceptions towards venous thromboembolism practice guidelines implementation using the theoretical domains framework**

This cross sectional electronic survey study will be conducted at five tertiary hospitals from the different existing Mouhafazat in Lebanon and from four hospitals in Dubai. It aims to explore the physicians' perceptions towards VTE using the TDF.

**Co-investigators:** Lara Youssef, Juliana Abboud, and Bahia Abdallah.

**Funding:** UOB Research Grant

**Status:** Ongoing

**Principal Investigator:** Abir Abdel-Rahman

**Exploring the behavior of adding sugar to milk and beverages: A qualitative approach.**

The purpose of this study is to explore "Adding Sugar Behaviour" in primary caregivers and to investigate potential underlying factors. 26 in-depth interviews were conducted with the mothers, fathers and grandmothers of students from four public schools in Lebanon.

**Co-investigators:** Cynthia Pine, Pauline Adair, and Nada Kassem.

**Funding:** WHO

**Status:** Completed. Manuscript writing

**Principal Investigator:** Abir Abdel-Rahman

**Using the theory of planned behavior to investigate the predictors of adding sugar behavior among mothers of Lebanese children in public schools.**

This study aimed to establish the socio-demographic characteristics that discriminate between mothers who intend to stop/reduce 'adding sugar' to their children's beverages and those who do not, and between parents and caregivers who actually do add sugar to their children's beverages and those who do not. In addition, it aimed to test the extent to which the theory of planned behavior (attitude, subjective norms, and perceived behavioral control) can predict the parents' intention to stop/reduce the ASB behavior to their children's beverages

**Co-investigators:** Pauline Adair, Nada Kassem and Rana Abdel Samad.

**Funding:** WHO

**Status:** Completed. Manuscript writing in progress

**Principal investigator:** Pauline Adair and Juliana Abboud

**A qualitative study of physicians' perceptions and preferences when making decisions about following the Venous Thromboembolism (VTE) clinical practice guidelines based on the Theoretical Domains Framework**

This current study will use the Theoretical Domains Framework (TDF) to examine and identify the beliefs and barriers to changing the behavior and practice of physicians towards implementing VTE clinical practice guidelines. A series of interviews will be conducted to explore reasons for or against undertaking VTE risk

assessment and delivering appropriate prophylaxis. The clinical behavior of interest is thus specified as “conducting VTE risk assessment for hospitalized medical patients and ordering recommended Prophylaxis”.

**Co-investigators:** Abir Abdel Rahman and Martin dumpster.

**Funding:** Dubai Health Authority (DHA)

**Status:** Writing manuscripts

**Principal Investigator:** Elias Abdou

**The Virulence Factors of Classical and Hypervirulent Klebsiella in Patients with Bacteremia and Non-Bacteremia in Lebanon**

This research aims to identify the different virulence factors expressed by Klebsiella during bacteremic infection.

**Co-investigators:** Mira El Chaar

**Funding:** UOB grant

**Status:** Not started yet

**Principal Investigator:** Elias Abdou

**Detection of antimicrobial activity of extracts from indigenous Malva sylvestris and Ficus carica against multidrug resistant microorganisms isolated from different hospitals in Lebanon**

The purpose of this new project is to identify that specific plants possess antimicrobial activities on multidrug resistant microorganisms. This will provide insights for identifying the antimicrobial components.

**Co-investigators:** Master students.

**Funding:** None

**Status:** Ongoing

**Principal Investigator:** Elias Abdou

**Evaluating the Effect of Inula viscosa, Prunus dulcis, Chamomile nobile, Syzygium aromaticum Extracts on Multi-Drug Resistant Microbes**

The purpose of this project is to detect the antimicrobial activities of selected Lebanese plants on multidrug resistant microorganisms. This will provide insights for identifying the antimicrobial components.

**Co-investigators:** Master students.

**Funding:** None

**Status:** Ongoing

**Principal Investigator:** Elias Abdou

**Evaluating the Effect of Ziziphus jujuba Extracts on Multi-Drug Resistant Microbes using 2 different methods of extraction.**

The purpose of this project is to detect the antimicrobial activities of Jujuba leaf extracts obtained by two different methods on multidrug resistant microorganisms. This will provide insights for identifying the antimicrobial components.

**Co-investigators:** Mira El Chaar, Charbel Bayssari.

**Funding:** UOB GRANT for 2024-2025

**Status:** Not started yet

**Principal Investigator:** Elias Abdou

**Determination of the epidemiology and characterization of Stenotrophomonas maltophilia isolated from clinical and environmental areas in UMC and Tertiary Hospitals**



The purpose of this research is to identify the presence of *Stenotrophomonas maltophilia* in hospitals especially in detergents and soaps. It will also evaluate the resistance profile of these strains.

Co-investigators: Master students.

**Funding:** None

**Status:** Not started yet

**Principal Investigator:** Huda Abu-Saad Huijer

**Type 1 diabetes in Emerging Adults in Lebanon: A mixed Methods Study**

This study aims to: 1) explore the experience of emerging adults with type 1 diabetes mellitus in Lebanon, 2) describe their diabetes outcomes; 3) determine the sociodemographic and clinical predictors of diabetes outcomes (HbA1c level, acute complications and diabetes distress), and explore the role of 4) self-care and social support in these relationships.

**Co-PIs:** Samar Nouredine, **Huda Abu-Saad Huijer**, Houry Puzantian, Mona Nasrallah, Hala Tfayli, Kevin Joiner and Pamela Martyn-Nemeth.

**Funding:** University Research Board, AUB

**Status:** PhD successfully defended. Manuscript writing ongoing

**Principal Investigator:** Huda Abu-Saad Huijer

**Pain Catastrophizing and Pain Resilience as Predictors of Patient-reported Outcomes in Individuals with Chronic Musculoskeletal Pain.**

To examine the influence of negative psychological factors (pain catastrophizing and pain-related fear) and positive psychological factors (pain resilience, pain self-efficacy) on the interference of pain in daily life and health-related quality of life (HrQoL) in individuals with chronic musculoskeletal pain (CMP).

**Co-PIs:** **Huda Abu-Saad Huijer**, Samar Nouredine, Souha Fares, Imad Uthman, Christopher France, Douglas French, Laila Farhood.

**Funding:** None

**Status:** Dissertation successfully defended in 2023. Manuscript writing ongoing

**Principal Investigator:** Huda Abu-Saad Huijer

Primary caregivers' knowledge, attitudes and beliefs toward palliative care for Children with cancer

This study aims at examining the association of primary caregivers' KAB towards PPC with QOL of children with cancer in Lebanon in order to uncover areas for improvement.

**Co-Investigators:** **Huda Abu-Saad Huijer**, Samar Nouredine, Souha Fares, Joanne Wolfe, Ellen Smith

**Funding:** None

**Status:** Ph.D. successfully defended. Manuscript writing ongoing

**Principal Investigator:** Charbel Al-Bayssari

**Phylogenetic, serologic, resistome and sequence type analysis of 28,000 human and animal *Escherichia coli* genomes: on the lookout for colibactin pks-island**

The purpose of this project is to analyze the resistome profile, the serotype, the phylogroup of 28,000 genomes of *Escherichia coli*. We also screened the genomes for the presence of the pks-island genes by local BLASTn version 2.9.0 against the complete pks-island of *E. coli* IHE3034 (including flanking regions) to determine the prevalence of pks positive island in *E. coli* genomes.

**Co-investigators:** Adel Azour and Jean-Marc Rolain.

**Funding:** None



**Status:** Paper submitted to Heliyon

**Principal Investigator:** Charbel Al-Bayssari

**Worldwide prevalence of colibactin and cancer-A systematic review**

This review explores: colibactin's overview, transmission, resistance profile, and impact on nuclear remodeling, inflammatory bowel disease (IBD), autophagy, and biofilm formation. Additionally, it will go over research results relating colibactin to cancer, primarily colorectal cancer and its prevalence around the world. This is the first review that discusses colibactin in-depth, and its correlation with other variables and colorectal cancer.

**Co-Investigators:** Adel Azour and Jean-Marc Rolain.

**Funding:** None

**Status:** Paper submitted to Heliyon

**Principal Investigator:** Charbel Al-Bayssari

**Overview of Colistin Resistance in the Middle East and North Africa (MENA) Region**

Colistin, a last-resort antibiotic against multidrug-resistant Gram-negative bacteria, has become increasingly ineffective due to rising resistance. This review explores the epidemiology of colistin resistance in humans, animals and environment, with a focus on the Middle East and North Africa (MENA) region. The extensive use of colistin in agriculture and veterinary practices has accelerated the spread of resistance, primarily driven by mobile colistin resistance genes (*mcr*). Countries such as Tunisia, Egypt, and Algeria report high rates of colistin-resistant bacterial strains in both clinical and agricultural settings, raising public health concerns. This review underscores the urgent need for coordinated efforts in antimicrobial stewardship, surveillance, and alternative therapeutic options to combat the growing threat of colistin resistance

**Co-investigators:** Adel Azour and Jean-Marc Rolain.

**Funding:** None

**Status:** Ongoing

**Principal Investigator:** Charbel Al-Bayssari

**Clonal dissemination of an NDM-2-producing *Acinetobacter baumannii* ST103 clone resulting in an outbreak in an intensive care unit of a Lebanese tertiary care hospital.**

Multidrug resistant bacteria, including carbapenem-resistant *Acinetobacter baumannii*, are considered as a major public health threat, particularly those which are responsible for nosocomial infections. This study aimed to investigate the molecular mechanism of carbapenem resistance and the clonal relationship of carbapenem-resistant *A. baumannii* (CRAB) isolates of a probable outbreak in the intensive care unit (ICU) of Saydet Zgharta University Medical Center (SZUMC), in north Lebanon.

**Co-investigators:** Adel Azour and Jean-Marc Rolain.

**Funding:** None

**Status:** Paper submitted to the Journal of Global Antimicrobial Resistance

**Principal Investigator:** Charbel Al-Bayssari

**Subversion of the maltose absorption pathway to circumvent antibiotic resistance in Gram-negative bacteria**

The aim of this project is to generate appropriate "maltocargos" (Malto) ensuring the transport and delivery of original antibiotic molecules (ATB) on their internal targets at a concentration necessary for antibacterial action (Malto-ATB )

**Co-investigators:** Jinane Tabcheh and Jean-Michel Brunel.

**Funding:** None

**Status:** Ongoing

**Principal Investigator: Charbel Al-Bayssari**

**Characterizing OprD Gene Mutations in *Pseudomonas aeruginosa* Isolates from Saydet Zgharta Hospital: In the lock for clonal relatedness**

This project aims to understand the relationship between OprD gene mutations and carbapenem-resistance, and will highlight the probable link between these mutations and the clonal relatedness of the isolates. This will help physicians in managing multidrug-resistant *Pseudomonas aeruginosa* infections and avoid the dissemination of such strains between hospitalized patients.

**Co-investigators:** Vanessa Mansour

**Funding:** None

**Status:** Ongoing

**Principal Investigator: Charbel Al-Bayssari**

**Intestinal Carriage of Multidrug-Resistant bacteria in Domestic pets (Dogs and cats) in Lebanon**

This study aims to investigate the intestinal carriage of multidrug-resistant bacteria, focusing on ESBL-producing bacteria as well as carbapenem and colistin-resistant bacteria in domestic pets while also examining the prevalence and factors contributing to resistance. By addressing the potential risks of zoonotic transmission, the research will provide valuable insights into the possible role of domestic pets in the dissemination of AMR and contribute to the development of targeted interventions to mitigate the spread of resistant bacteria. The results of this study will be important in informing public health strategies, enhancing antimicrobial stewardship, and protecting the health of both humans and animals against the rising threat of AMR.

**Co-investigators:** Ahmad Ghanem

**Funding:** UOB Grant

**Status:** Ongoing

**Principal Investigator: Mathilde Azar.**

**Examining Students' Perceptions of a Community of Inquiry in Online Courses:**

The Case of the Lebanese Higher Education Context. The aim of this study is to identify the interrelation between teaching, social, and cognitive presences of the Community of Inquiry framework considering students' profile. Paper submitted for publication to the Online Learning journal

**Co-investigators:** Dr Sara Salloum (OHIO University-USA) and Dr. Ghania Zgheib, FAS, UOB.

**Principal Investigator: Mathilde Azar**

**Academic Advising: a qualitative study.**

The purpose of this study is to gain insights into the facilitators and barriers of academic advising as perceived by the students and faculty.

**Co-investigators:** Hiba Chakhtoura, Rabab Hourany, Vicky Gebran, and Christine Azar.

**Principal Investigator: Mathilde Azar**

**Determinants of female sexual functioning and breastfeeding.**

The purpose of the study is to identify the determinants of female sexual function of breastfeeding women by conducting a systematic review of the existing literature about the topic and undertaking a quantitative cross-sectional study with a sample of 280 participants.

**Co-investigators:** Dr Christine Azar, Dr Samah Tawil, Mrs. Peggy Germanous, Pr. Thilo Kroll, and Dr Nagham Azar.

**Principal investigator:** Mira Daher

**Job satisfaction and workload perception among Lebanese Dietitians**

The purpose of this study is to assess the levels of job satisfaction and workload perception, along with the factors influencing them, among Lebanese Dietitians

**Co-investigators:** Mireille Serhan, Carole Serhan

**Funding:** None

**Status:** Data collection finished. Data analysis in progress

**Principal investigator:** Mireille Serhan

**Societal impact of job satisfaction among dietitians**

The purpose of this study is to assess the societal impact of job satisfaction among dietitians by exploring its link to public health and economic factors.

**Co-investigators:** Mira Daher, Carole Serhan

**Funding:** None

**Status:** Final stages of writing the article

**Principal investigator:** Mira Daher

**Comparative study on job satisfaction among health providers and dietitians**

The aim of this study is to review and compare factors and challenges affecting job satisfaction among health care providers and among dietitians.

**Co-investigators:** Mireille Serhan, Maud Rizk, Dima Mnayer, Hiba Roueiheb, Maria El Deghel

**Funding:** None

**Status:** Article writing in progress

**Principal investigator:** Mira Daher

**Research involvement and evidence based practice among Lebanese Dietitians**

The purpose of this study is to assess the levels of research involvement among Lebanese dietitians and to investigate the perception, attitudes and knowledge of evidence-based practice among them.

**Co-investigators:** Mireille Serhan, Carole Serhan

**Funding:** UOB intramural fund

**Status:** IRB approval obtained. Expected to start in January 2025

**Principal investigator:** Mira Daher

**The effect of non-nutritive sweeteners (NNS) consumption on body weight, type 2 diabetes mellitus and gut microbiota**

This study aims to investigate the effect of NNS consumption on body weight, and whether the results vary among different types of sweeteners.

**Co-investigators:** Maya Hobeika, Yonna Sacre, Mohamad Kacim (USEK), Ilham Darazi (USEK, LU, USF)

**Funding:** CNRS, USEK

**Status:** Article ready for submission

**Principal investigator:** Mira Daher

**Application of Artificial intelligence (AI) in Nutrition**

This study aims to explore the application of AI in nutrition while highlighting its opportunities and challenges.

**Co-PI:** Mireille Serhan

**Co-investigator:** Rawaa Chedid (UOB student)

**Funding:** None

**Status:** Article writing in progress

**Principal Investigator:** Mira EL Chaar

**Identification and characterization of bacteria in human breastmilk and their transfer to the newborn's gastro-intestinal tract**

The purpose of this project is to investigate the bacterial composition of breastmilk from healthy lactating women and investigate the transfer of resistant bacteria from mothers to newborns.

**Co-investigators:** Bahia Abdallah

**Funding:** UOB research grant

**Status:** Ongoing

**Principal Investigator:** Mira EL Chaar

**Fecal Carriage of Resistant Genes Among Healthy Infants**

The purpose of this project is to investigate the fecal carriage of resistant genes among healthy infants in Lebanon, focusing on the microbial colonization of meconium samples collected within 24 hours of birth and check for the presence of mobile genetic elements and especially antibiotic resistance genes (ARGs).

**Funding:** UOB research grant

**Status:** Ongoing

**Principal Investigator:** Mira EL Chaar

**Molecular Characterization of Pseudomonas aeruginosa from Bacteremia Patient**

The purpose of this project is to study focuses on the molecular characterization of Pseudomonas aeruginosa isolates from bacteremia patients, aiming to identify key resistance genes and explore their correlation with phenotypic resistance patterns.

**Co-investigators:** Dr Elias Abdo

**Funding:** None

**Status:** Ongoing

**Principal Investigator:** Mira El Chaar

**Virulence-Associated Genes Analysis and Molecular Typing of Klebsiella pneumoniae Strains Isolated From Patients With Bacteremia**

The main goal of this project is to study the evolution of Klebsiella pneumoniae causing bloodstream infections and understand the dynamics and answer important questions that impact human health.

**Co-investigators** Elias Abdo

**Funding:** UOB grant

**Status:** Ongoing

**Principal Investigator:** Mira EL Chaar

**Serological and molecular prevalence of Hepatitis E virus among blood donors in Lebanon**

The purpose of this project is to evaluate the seroprevalence of anti-HEV antibodies and the potential presence of HEV viremia within the Lebanese blood donor population.

**Co-investigators:** Dr Elias Abdo

**Funding:** UOB research grant and Roche diagnostics

**Status:** Ongoing

**Principal Investigator:** Mira EL Chaar

**Seroprevalence and Risk Assessment of Arboviral Infections Among Blood Donors in Lebanon: A Study on Dengue, West Nile, and Chikungunya Viruses**

The purpose of this project is to analyze different epidemiological factors, this research seeks to identify associations between these variables and infections with Dengue, West Nile Virus, and Chikungunya. Factors such as travel history to endemic regions, seasonal variations, and demographic data will be considered to assess their impact on virus transmission among the donor population.

**Co-investigators:** Dr Elias Abdo

**Funding:** UOB research grant

**Status:** Ongoing

**Principal Investigator:** Marwan El-Sabban (AUB) and Jessica Saliba

**Effect of novel smoking modalities on the expression and function of PML nuclear bodies and of cell membrane proteins.**

The purpose of the study is to investigate how novel smoking modalities (compared to the combustible cigarette) modulate the expression of PML nuclear body proteins, as well as proteins involved in cellular junctions (such as ZO-1) and inter-cellular communication (Connexins).

**Co-investigators:** Marwan El-Sabban (AUB) and Jessica Saliba.

**Funding:** AUB intramural grants

**Status:** Ongoing

**Principle Investigator:** Marwan El-Sabban (AUB)

**Epigenetic regulation of Cx43 expression in laboratory models of inflammatory bowel disease and colorectal cancer**

The purpose of the study is to unveil mechanisms by which chronic intestinal inflammation might lead to mutations and malignancy in the colon.

**Co-investigators:** Jessica Saliba.

**Funding:** AUB intramural grant

**Status:** Ongoing / First paper published

**Principal Investigator:** Marwan El-Sabban & Jessica Saliba

**Effect of smoke exposure cessation on the survival of lung epithelial cells and behavior of stem cells**

The purpose of the study is to investigate whether the damage caused by the exposure of lung epithelial cells and stem cells to novel smoking modalities is reversible.

**Funding:** UOB intramural grant

**Status:** Ongoing

**Principal Investigator:** Marwan El-Sabban

**Development of an in vitro model mimicking the blood-brain barrier for drug discovery**

The purpose of the study is to develop a 3D in vitro model using exclusively human cells composing the blood-brain barrier; with the purpose of creating a platform for drug delivery to the brain and central nervous system as well as unveiling mechanisms of cancer cell metastasis to the brain.

**Co-investigators:** Jessica Saliba and other AUB Faculty members

**Funding:** Intramural grants at AUB

**Status:** Completed. Manuscript pending submission

**Principal Investigator:** Jessica Finianos

**Observational and Prospective Study of Chronic Pain in the Child and Adolescent Population Living in Lebanon.**

The purpose of this epidemiological study is to improve the understanding about chronic pain in children and adolescents living in Lebanon.

**Co-investigators:** Jordi Miró – Peggy Germanos

**Funding:** None

**Status:** Ongoing, data collection.

**Principal Investigator:** Jessica Finianos

**Cultural and Socioeconomic Influences on Chronic Pain in children.**

The purpose of this study is to review cultural and socioeconomic influences on pain expression and management in children with chronic pain.

**Co-investigators:** Hadi Ammouri – Thalia Saredidine

**Funding:** None

**Status:** Ongoing.

**Principal Investigator:** Jessica Finianos

**Music Therapy and Management of Headaches and Migraines.**

The purpose of this review is to explore how music therapy manages headaches and migraines in children.

**Co-investigators:** Youssef Finianos, Chahine El Bekai & Cesar Ghadbane

**Funding:** None

**Status:** Ongoing.

**Principal Investigator:** Jessica Finianos

**Professional Education about Pediatric Pain and Current Treatment Practices among Healthcare Professionals Working in Lebanon: A Survey Study.**

The purpose is to examine the education and training in pain of healthcare professionals working in Lebanon and their current practices in the management of children with chronic pain:

**Co-investigators:** Jordi Miró, Huda Huijer

**Ready for journal submission**

**Principal Investigator:** Lara Haddad

**Identification of Gene Mutations and Polymorphisms in IBD Patients of Lebanese Families**

The purpose of this study is to better understand the pathogenicity of the Inflammatory Bowel Disease. Genetic analysis will be conducted to try to find a signature of SNPs for Lebanese patients susceptible to develop IBD. The study will investigate the molecular mechanism that leads to inflammation and induces the breaching of the intestinal epithelial barrier.

**Co-investigators:** Dr. Antoine Geagea

**Funding:** UOB master's student work

**Status:** ongoing project

**Principal Investigator:** Lara Haddad

**Effect of Jania Rubens Algal extract on an in vitro model of Inflammatory Bowel Disease**

This study aims to study the effect of DM Soxhlet extract of *J. rubens* on the inflammatory response in IBD by establishing an in vitro model of the disease using cancer cell line, in order to explore the possibility of a new potential therapeutic agent against IBD in the form of this algal extract.

**Co-investigators:** Dr. Maysam Moussa, Dr. Zeina Dassouki

**Funding:** UOB master's student work

**Status:** Ongoing project

**Principal Investigator:** Lara Haddad

**Hyaluronic Acid Polyelectrolyte Multilayer Films as a Platform for the Spontaneous Chondrogenic Differentiation of Wharton's Jelly Mesenchymal Stem Cells for Tissue Engineering in Osteoarthritis**

The core objective of this research is to evaluate the spontaneous chondrogenic differentiation potential of MSCs extracted from Wharton's Jelly of human umbilical cords and to evaluate the supportive role of a (CHI-HA)<sub>10</sub> polyelectrolyte multilayers films in this process.

**Co-investigators:** Dr. Chaza Harmouche

**Funding:** UOB master's student work

**Status:** Project completed Spring 2024 and awaiting to be continued

**Principal Investigator:** Lara Haddad

**Effect of Mesenchymal stem cells and their secretome in comparison with Cisplatin chemotherapy on ovarian cancer cell lines**

Mesenchymal stem cells and their secretome have already shown promising results as cancer potential therapeutical agents. Our study would decipher the importance of using the stem cells secretome to target specific signalling pathways that delay or even completely stop the progression and invasion of ovarian cancer. We will also focus on the identification of the specific molecules that are secreted in the secretome of the stem cells and would show the importance of their action when targeting tumor cells in comparison with the used chemotherapeutic agents.

**Co-investigators:** Dr. Maysam Moussa, Dr. Charbel Khalil

**Funding:** UOB grant 2024

**Status:** Project awaiting the IRB approval to start

**Principal Investigator:** Lara Haddad

**The Lethality and Immunological Alteration of Mice Poisoned with Hottentota Judaicus' Venom**

In this study we're aiming to see the effects of the venom on hyperalgesia, which is an exaggerated pain sensation caused by harmless or common daily activities. Moreover, we are planning to determine the effect



of scorpion venom on the cytokines secreted as well as compare the differences in their release between intoxicated and non-intoxicated mice.

**Co-investigators:** Dr. Marc Karam, Dr. Ziad Fajloun

**Funding:** UOB master' s student work

**Status:** Ongoing project

**Principal Investigator:** Lara Haddad

### **Pathogenic Bacteria's Response to Human Lysozymes from Various Sources: An Alternative Antibiotic Approach**

This study focuses on examining the lysozyme content and its antimicrobial activity in two different biological fluids: saliva and breast milk. While there isn't much research on lysozymes in either biological fluid, comparing the activity of the two is crucial for understanding host defense roles, potential health effects, and, more recently, the development of new medications and treatments by determining which source is more effective against particular bacteria.

**Co-investigators:** Dr. Charbel Bayssari, Dr. Mohamad Omeiri

**Funding:** UOB master' s student work

**Status:** Ongoing project

**Principal Investigator:** Lara Haddad

### **Antitumor effects of the Adamantyl retinoid GEM144 in Acute Myeloid Leukemia cells**

The aim of this study is to test the effects of GEM144 on the cell growth and cell viability, determine the impact of GEM144 on the cell cycle, and the study the mechanism of action of GEM144 across multiple AML cell lines affected by different mutations

**Co-investigator:** Dr. Nadine Darwiche

**Funding:** UOB master' s student work

**Status:** Ongoing project

**Principal Investigator:** Dr. Dima Mnayer

### **Development of healthy gluten-free color wraps: nutritional, technological and sensorial properties**

The purpose of this study is to create different formulations of a new gluten-free wrap, from different natural products (Beetroot, spinach, chickpea) conduct the nutritional, shelf life, microbiological analysis and physico-chemical analysis. Healthy ingredients were used to meet the needs of patients with gluten sensitivities.

**Co-PIs:** Yara Al Hazim (Student), Maria el Deghel

**Status:** Project thesis 2025

**Funding:** None

**Status:** Ongoing

**Principal investigator:** Dima Mnayer

### **Development of High protein and low-fat snack made of a legume mixture: Nutritional, technological and sensorial properties**

The purpose of this study is to develop a new protein-rich potato-based product "protein chips". This consists of testing various protein. Sensory analyzes to identify the organoleptic characteristics of this product and assess consumer acceptance and preferences sources.

**Co-PIs:** Carine Joubrane

**Funding:** Daher Group

**Status:** Completed, submitted to Journals for publishing



**Principal investigator:** Dima Mnayer

**Development of healthy gluten-free double-layer pita bread: nutritional, technological and sensorial properties**

The purpose of this study is to create different formulations of a new gluten-free double layer pita bread, conduct the nutritional, shelf life, microbiological analysis and physico-chemical analysis. Healthy ingredients were used to meet the needs of patients with gluten sensitivities.

**Co-PIs:** Maria el Zoghbi (Student), Maria el Deghel

**Status:** Project thesis 2024

**Funding:** Crown bakes, Berytech

**Status:** Completed, submitted to Journals for publishing

**Principal investigator:** Dima Mnayer

**Implementation of HACCP system in Spice Stores**

The purpose of this study is to ensure the safety and quality of spices and to develop HACCP plans specific to the handling, storage, and packaging of spices.

**Co-PIs:** Jad Antoine Ishak Mouawad (student), Maria Eh Deghel

**Status:** Project thesis 2024

**Funding:** none

**Status:** Completed, submitted to Journals for publishing

**Principal Investigator:** Myriam Mrad Nakhlé

**Environmental exposures in Lebanese infants EELI study- birth cohort study**

The Environmental Exposure in Lebanese Infants (EELI) study is a longitudinal birth cohort designed to assess a wide range of pre and post-natal environmental exposures and genetic factors underlying the health and development of Lebanese infants in Beirut. The aim of the study is to better understand the origins of complex and often lifelong diseases like asthma, allergies, and other chronic conditions.

**Co-investigators:** From FHS- UOB: Nivine Abbas, Roubina Karhily. From FM-USJ: Georges Abi Tayeh, Emile Whaibeh. INSERM UMRS1136 France: Isabella Annesi-Maesano and CHILD Cohort team at McMaster University.

**Funding:** WHO fund and Intramural UOB fund

**Status:** Data collection, analysis, writing and editing of articles

**Principal Investigator:** Myriam Mrad Nakhlé

**Health Effects of Lebanese Schools Indoor Environment HELSIE Study**

Health Effects of Lebanese School Indoor Environment (HELSIE) aims to investigate the association between the exposure to indoor air pollutant in Lebanese schools with respiratory health indicators and school performance.

**Co-investigators:** From UOB: Roubina Karhily, Lina Jaalouk. From FS-USJ: Wehbeh Farah and Maher Abboud.

**Funding:** Intramural Fund at USJ for Dr. Wehbeh Farah

**Status:** Co-supervisor of a Ph.D. student. Data collection, analysis, writing and editing of articles

**Principal Investigator:** Myriam Mrad Nakhlé

**Beirut Air Pollution and Health Effects BAPHE Study Phase II**

The Beirut Air Pollution and Health Effects BAPHE I study aimed to determine the relationship between short-term variations in ambient concentrations of particulate matter (PM10 and PM2.5) and emergency hospital admissions in the city of Beirut, and whether susceptible groups are more greatly affected. BAPHE II is an extension of phase I. The association between air pollution and health effects will be studied over 3 years.

**Co-investigators:** From FS-USJ: Wehbeh Farah and Maher Abboud.

**Funding:** Conseil de la Recherche USJ

**Status:** Completed. Remaining activities: Data analysis and article writing

**Principal Investigator:** Myriam Mrad Nakhlé

**Vicarious Trauma and PTSD of humanitarian workers who were victims of Beirut Explosion**

Vicarious trauma and PTSD of disaster traumas are major contributors to anxiety and depression for humanitarian aid workers. Few studies have examined the vicarious trauma of relief workers and other studies have examined the trauma of adults and children after certain disasters; however, the situation of Lebanon creates an exemplary case study. The aim of this research is to study the collective trauma of the Lebanese relief workers that were victims of the Beirut explosion, but also operated in its wake to support other victims.

**Co-investigators:** Nivine Abbas, Roubina Karhily.

**Funding:** None

**Status:** Completed- articles submitted

**Principal Investigator:** Myriam Mrad Nakhlé

**The association of COVID-19 infection with changes in dietary and sleeping patterns, lifestyle and behavioral changes in children in Lebanon, 2021**

The study aims to describe the clinical symptoms in children  $\leq 18$  years diagnosed with COVID-19 and residing in Lebanon and investigate the COVID-19 impact on children's dietary and sleeping patterns, lifestyle and behavior changes.

**Co-investigators:** Julia Chbeir, Nadine Haddad (Ministry of Public Health).

**Funding:** None

**Status:** Data collection/ Remaining activities: data analysis and article writing

**Principal Investigator:** Myriam Mrad Nakhlé

**Menstrual hygiene management and period poverty**

The study aims to assess the knowledge, attitude, and practices of menstrual hygiene among high school females between 13 and 19 years old in public and private schools in Lebanon.

**Co-investigators:** Denise Nemr, Pamela Sleiman, Nivine Abbas, Roubina Karhily, Lina Jaalouk.

**Funding:** None

**Status:** Data collection/ Remaining activities: data analysis and article writing

**Principal Investigator:** Myriam Mrad Nakhlé

**The Geo Hub for climate and health in Middle East and North Africa**

The goal of the GeoHealth Hub is to address the effects of climate change on health and the environment, identify areas for development, and train higher education staff in Lebanon, Jordan, and Morocco in air pollution modelling, water quality and epidemiological methods.

Co-Investigators: Nivine Abbas, Georges Mitri, Emile Whaibeh, Georges Abi Tayeh, Joumana Yeretizian, Berj Hatjian. Jordan University of Science and Technology (JUST), the University of California in San Diego, and Mohammed VI Polytechnic University (UM6P) in Morocco. The partnership also includes the World Health Organization (WHO)'s Center for Environmental Health Action, the University of California Berkely, Harvard University.

**Funding:** National Institutes of Health (NIH)

**Budget:** The \$ 3 million grant will be shared by all collaborating institutions to implement the project over the course of 5 years.

**Status:** Launching phase Conference and workshop completed for year 1

**Principal Investigator:** Myriam Mrad Nakhlé

**Strengthening Primary Health Care in Lebanon Following the COVID-19 Pandemic: A Telehealth Pilot Study**

The objective of this project is to strengthen the capacities of primary healthcare centers in Lebanon through the adoption of telehealth.

Increase the level of knowledge of PHC personnel on topics related to health promotion and health education in areas like immunization, COVID-19 vaccination, reproductive health services, and mental health services. Increase through training of trainers (TOT) the level of knowledge, awareness, and readiness of PHC personnel in using telehealth in their primary healthcare service delivery.

Improve the access of patient populations in the catchment areas of the selected PHCs to immunization, reproductive health, and mental health services provided through TH.

**Co-investigators:** Youssef Bassim, Emile Whaibeh, Georges Abi Tayeh, Hady Naal. Wael AL Delaimy from UCSD, Society for the advancement of science and technology in the Arab world SASTA, Health and Environment Response Agency HERA.

**Funding:** IOM USAID

**Status:** Launching phase completed. Data collection and analysis partially completed

**Principle Investigator:** Maud Rizk

**Association between the dietary inflammatory index and the risk of hepatocellular carcinoma in a French cirrhotic population**

This study aimed to examine the inflammatory potential of diet evaluated by the dietary inflammatory index (DII®) and its association with HCC risk among cirrhotic patients who were recruited from the French case-control study CiRCE (Cirrhosis and Risk of hepatocellular Carcinoma in the East), which included 401 cirrhotic patients without HCC (controls) and 181 cirrhotic patients with HCC (cases) recruited between 2008 and 2012 in six French university hospitals.

**Co-investigators:** Vanessa Cottet and INSERM laboratory

**Funding:** This work was supported by a French Government grant managed by the French National Research Agency under the program “Investissementsd’Avenir” [reference ANR-11-LABX-0021], and also by grants from the “ConseilRégional de Bourgogne”, the “FondsEuropéen de DéveloppementRégional” (FEDER), the French National Cancer Institute, the “LigueNationalecontre le Cancer”, the “Canceropole Grand-Est” and the “Fondation de France”.

**Status:** Paper submitted

**Corresponding author:** Jessica Saliba

**TAn Overview of Smoking in Lebanon: Epidemiology, Health Burden and a Call for Action**

In this review, authors have revised recent literature on smoking and compiled evidence on the epidemiology of smoking in Lebanon among the adult and the adolescent population, with a special emphasis on the waterpipe phenomenon and a harsh reminder of the health and environmental burden entailed by chronic first-hand and second-hand smoking.

**Co-authors:** Hiba Rouaiheb, Maud Rizk, Mira Daher, Nivine Abbas, Saada El Jurdi, Myriam Mrad

**Funding:** None. Endorsed by the CHR at the FHS.

**Status:** Review article pending submission

**Corresponding author:** Jessica Saliba

**Childhood and Adolescence Obesity: Trends and the Way Forward**

Childhood obesity and overweight are serious health concerns across the world, and the frequency of overweight and obesity among children and adolescents is rising. This review focuses on obesity as a health concern, particularly among children. It also reviews different techniques that have been developed to assess obesity. The authors of this paper also discuss the underlying risk factors, health implications, and age-related consequences of obesity, as well as measures for combating childhood obesity and preventative models

**Co-authors:** Nivine Abbas, Nelly Abou Chakra, Rana Bou Said, Jihane Bou Samra, Nesrine El-Khansa, Anna-Maria El Rahi, Rana Imad, Sahar Kamel, Jad Karam, Serena Khalil, Antonella Younes

**Funding:** None.

**Status:** Ongoing. Final stages of writing/editing

**Principle Investigator:** Jessica Saliba

**The effect of novel imidazoquinoxaline compounds on stem cells**

The purpose of the study is to investigate if novel immunomodulatory imidazoquinoxaline agents compromise stem cells, in terms of stem cell pool, molecular profile and ability to differentiate.

**Co-authors:** Carine Masquefa-Deleuze and Pierre-Antoine Bonnet

**Funding:** Awaiting funding

**Status:** Research ongoing

**Principle Investigator:** Jessica Saliba

**Effect of smoke exposure cessation on lung epithelial cells and stem cells**

The purpose of the study is to investigate whether the damage caused by the exposure of lung epithelial cells and stem cells to novel smoking modalities is reversible.

**Co-authors:** Marwan El-Sabban (AUB)

**Funding:** UOB grant (RGA/FHS/22-23/002)

**Status:** Research ongoing

**Principal Investigator:** Abdullah Shaito

Evaluation of the impact of different smoking modalities on development and cellular differentiation in a zebrafish model and human stem cells

**Co-PI:** Jessica Saliba

**Funding:** Qatar University grant 2023

**Status:** Ongoing

**Principal Investigator: Mireille Serhan****Biogenic amines in dairy products**

The purpose of this study is to assess the technological and environmental effects on the occurrence of biogenic amines in commonly consumed cheeses in the East Mediterranean.

**Co-investigators:** UOB (Iman Dankar) and LAU (Hussein Hassan).

**Funding:** UOB funding

**Status:** Manuscript write-up is ongoing.

**Principle Investigator: Mireille Serhan****Safety and toxicity of pet food**

The purpose of this study is to assess the chemical and microbiological safety of commercial pet food products (canned and dried) in Lebanon and UAE.

**Co-investigators:** LAU (Hussein Hassan Dr. Elias Akoury) and Abu Dhabi University (Nissrine Alwan).

**Funding:** UOB and LAU (allocated budget for graduate research) and ADU (intramural grant for Dr. Nissrine Alwan)

**Status:** 1<sup>st</sup> manuscript published in Frontiers in Veterinary Sciences doi: 10.3389/fvets.2022.995184.

2<sup>nd</sup> manuscript published in Frontiers in Veterinary Sciences doi: 10.3389/fvets.2024.1389981.

3<sup>rd</sup> Manuscript write-up is ongoing.

**Principal Investigator: Mireille Serhan****Safety and toxicity of breakfast cereals**

The purpose of this study is to assess the chemical and microbiological safety of breakfast cereals.

**Co-Investigators:** Hussein Hassan, Elias Akoury, Nissrine Alwan, and Maria Deghel.

**Funding:** UOB and LAU (allocated budget for graduate research) and ADU (intramural grant for Dr. Nissrine Alwan)

**Status:** 1<sup>st</sup> manuscript is published in Scientific reports journal doi: 10.1038/s41598-023-48172-8.

2<sup>nd</sup> manuscript write-up is ongoing.

**Principal Investigator: Ghania Zgheib (FAS-UOB)****Faculty readiness to teach online**

The purpose of this study is to examine the readiness of faculty at the University of Balamand to teach online.

**Co-investigators:** Mireille Serhan and Roula Al Daia (FOBM).

**Funding:** None

**Status:** Completed. Manuscript published in Heliyon (Elsevier journal), IF 3.77.

**COMMUNITY ENGAGEMENT PROJECTS**

**Project:** Development of contextualized guidelines and capacity building for UNICEF partners and counterparts on COVID-19: IPC, prevention, and community engagement

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Director	Habbouba Aoun
Team Members	Habbouba Aoun, Cecile Lahoud, Gretta Shoucair, Micheline Kobrossy, Rachelle Daoud, Sanaa Chabbani, Zeina Saliba
Funding	UNICEF

Status	Completed (Oct 2020-June 2021)
<b>Project:</b> Evaluation of Engaging Men Program	
Director	Habbouba Aoun
Team Members	Rana Barazi, Micheline Kobrossy, Cecile Lahoud, Greta Shoucair, Rachelle Daoud
Funding	UNICEF
Status	Completed (Dec 2020-Feb 2021)
<b>Project:</b> Human Rights (Dealing with the Past - Memories for the Future)	
Director	Habbouba Aoun
Team Members	Habbouba Aoun, Rana Barazi, Sanaa Chabbani, Greta Shoucair, Cecile Lahoud
Funding	OHCHR
Status	In progress (January - Dec 2021)
<b>Project:</b> Promoting Sustainable Management of Water Services and Resources in Countries Affected by the Syrian Crisis	
Director	Habbouba Aoun
Team Members	Habbouba Aoun, Rachelle Daoud, Greta Shoucair, Cecile Lahoud
Funding	World-GVC
Status	In progress (Feb 2021 – December 2021)
<b>Project:</b> Explosive Ordnance Risk Education (EORE) (Lebanese context)	
Director	Habbouba Aoun
Team Members	Habbouba Aoun, Zeina Saliba, Micheline Kobrossy, Rachelle Daoud, Sanaa Chabbani, Greta Shoucair, Cecile Lahoud
Funding	UNICEF
Status	Completed (Jan 2020 - Sept 2021)
<b>Project:</b> COVID 19- Response	
Director	Habbouba Aoun
Team Members	Habbouba Aoun, Cecile Lahoud, Greta Shoucair, Micheline Kobrossy, Rachelle Daoud, Sanaa Chabbani, Zeina Saliba
Funding	UNICEF
Status	In progress (June 2021- Feb 2022)

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**Project:** Capacity building – Nutrition Campaign

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Director	Habbouba Aoun
Team Members	Habbouba Aoun, Rana Barazi, Gretta Shoucair, Cecile Lahoud, Sanaa Chabbani
Technical Support	Bahia Abdallah and Dominique Dano
Funding	UNICEF
Status	In progress (May – Dec 2021)

**Project:** Addressing the Needs of Vulnerable Groups in Lebanon Mine Victim Assistance

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Director	Habbouba Aoun
Team Members	Habbouba Aoun, Rana Barazi, Rachelle Daoud, Gretta Shoucair, Cecile Lahoud, Micheline Kobrossy
Funding	ITF
Status	In progress (February 2021 - December 2022)



## FHS PUBLICATIONS

- 2024 Makhoul, M. , Nouredine, S., **Abu-Saad Huijjer, H.**, Bartley, E., Booker, S., Uthman, I. Pain Self-Management in Individuals with Chronic Musculoskeletal Pain During Lebanon's Overlapping Crises. *Pain Management Nursing*. In Press
- 2024 Makhoul, M. , Nouredine, S., **Abu-Saad Huijjer, H.**, Fahood, L., Fares, S., Uthman, I., French, F., France, C. Psychometric Properties of the Arabic Version of the Pain Resilience Scale Among Lebanese Adults with Chronic Musculoskeletal Pain". *Pain Research and Management Journal*, In Press.
- 2024 Mercante, A., Owens, J., Bruni, O., Nunes, ML Gringras, P., Xin Li, J., Papa, S., Kreicbergs, U., Wolfe, J., Zernikow, B., Lacerda, A., Benini, F., Pediatric Sleep and Palliative Care Group....**Abu-Saad Huijjer, H.**, et al. International consensus on sleep problems in pediatric palliative care: paving the way. *Sleep Medicine*. <https://doi.org/10.1016/j.sleep.2024.05.042> In Press.
- 2024 Amani Al Bayrakdar, A., Nouredine, S., Puzantian, H., **Abu-Saad Huijjer, H.**, Nasrallah, M., Joiner, KL., Martyn-Nemeth, P., Tfayli, H. Emerging Adults Living with Type 1 Diabetes in a Low-Middle Income Country: A Mixed Methods Study. *Nursing Research*. In Press.
- 2024 Saad Rassam, R., **Abu-Saad Huijjer, H.**, Nouredine, S., Smith Lavoie, E., Wolfe, J., Fares, S., Abboud, M.. Parents providing palliative care for children with cancer. *Ecancermedicalscience* <https://doi.org/10.3332/ecancer.2024.1724>
- 2024 Khomsi, Kenza||Bouzghiba, Houria||Mendyl, Abderrahmane||Al-Delaimy, Ahmed K.||Dahri, Amal||Saad-Hussein, Amal||Balaw, Ghada||El Marouani, Ihssane||Sekmoudi, Imane||Adarbaz, Mouaad||Khanjani, Narges||**Abbas, Nivine H.** Bridging research-policy gaps: An integrated approach
- 2024 **Abbas, Nivine H.**||Salma, Farah||Abou Dahesh, Abedulrahman||Yacout, Malak Volunteering, the New Wealth of Students: The Importance of Skilled Volunteering in Educational Settings
- 2024 **Abbas, Nivine H.**||Etzel, Ruth A.||Anastario, Michael P.||Anastario, Michael P.||Osuolale, Olayinka||arkar, Atanu||Soyiri, Ireneous N.||Whaibeh, Emile||Soskolne, Colin L. Ethics guidelines for environmental epidemiologists: 2023 revision
- 2024 Abdelnaby, Asmaa||**Abbas, Nivine**||Abdelhafiz, Ahmed Samir||Mohammed, Zeinab||Yasser, Sara||Taha, Nada||Makkeyah, Sara||Mohammed, Maha||Silverman, Henry J. Knowledge, attitudes, and self-reported practices regarding plagiarism among health researchers in Egypt and Lebanon: a multicenter questionnaire study
- 2024 Nasr, Ramona||Nasr, Nada||Haddad, Chadia||Saab, Samantha Abi||Ibrahim, Sara Abou||Karam, Joanne||**Rahman, Abir Abdel** Financial insecurity and mental well-being: experiences of parents amid the lebanese economic crisis
- 2024 **Abdel Rahman, Abir**||Kassem, Nada O F||Edwards, Marc Lewis Emrys||Abdallah, Bahia||Abdel Malak, Rana Adding sugar to children's beverages: a theory of planned behavior study of Lebanese mothers



- 2024 Nasr, Ramona||**Rahman, Abir Abdel**||Haddad, Chadia||Nasr, Nada||Karam, Joanne||Hayek, Jessy||Ismael, Ibrahim||Swaidan, Eman||Salameh, Pascale||Alami, Nael Corrigendum: Molecular characterization of carbapenem and ceftazidime-avibactam-resistant Enterobacterales and horizontal spread of bla NDM-5 gene at a Lebanese medical center
- 2024 Mohtar, Jad||Mallah, Hiba||Mardirossian, Jean Marc||Bikai, Ran||Jisr, Tamima El||Soussi, Shatha||Naoufal, Rania||Alam, Gabriella||**Chaar, Mira**. Enhancing enteric pathogen detection: implementation and impact of multiplex PCR for improved diagnosis and surveillance
- 2024 **Chaar, Mira El**||Khoury, Yaralynn||Douglas, Gavin M||El Kazzi, Samir||Jisr, Tamima||Soussi, Shatha||Merhi, Georgi||Moghnieh, Rima A||Shapiro, B Jesse. Longitudinal genomic surveillance of multidrug-resistant Escherichia coli carriage in critical care patients
- 2024 Diab, Hassan||Rahy, Kelven||Jisr, Tamima||**Chaar, Mira El**||Abboud, Edmond||Tokajian, Sima. Phenotypic and molecular characterization of multi-drug resistant Klebsiella spp. Isolates recovered from clinical settings
- 2024 Moussa, Jennifer||Nassour, Elie||Jisr, Tamima||**Chaar, Mira El**||Tokajian, Sima  
Characterization of bla<inf>NDM-19</inf>-producing IncX3 plasmid isolated from carbapenem-resistant Escherichia coli and Klebsiella pneumonia
- 2024 Sobh, Ghena||Araj, George F||Finianos, Marc||Sourenian, Tsolaire||Hrabak, Jaroslav||Pappagianitsis, Costas C||**Chaar, Mira El**||Bitar, Ibrahim Molecular characterization of carbapenem and ceftazidime-avibactam-resistant Enterobacterales and horizontal spread of bla NDM-5 gene at a Lebanese medical center
- 2024 El Osmani, Nour||PrÃ©vostel, Corinne||Picque Lasorsa, Laurence||El Harakeh, Mohammad||Radwan, Zeina||Mawlawi, Hiba||El Sabban, Marwan||Shirinian, Margret||**Dassouki, Zeina** Vitamin C enhances co-localization of novel TET1 nuclear bodies with both Cajal and PML bodies in colorectal cancer cells
- 2024 Haddad, Chadia||Zakhour, Maha||Sacre, Hala||**Karam, Joanne**||El Khatib, Sami||Akel, Marwan||Salameh, Pascale Examination of the natural mineral water quality in the Kesserwan region, Lebanon
- 2024 Obeid, Pierre J||Yammine, Paolo||Nakat, Hanna El||Kassab, Rima||Tannous, Tony||Nasr, Zeina||**Maarawi, Therese**||Dahdah, Norma||El Safadi, Ali||Mansour, Agapy||Chmayssem, AymanOrgan-On-A-Chip Devices: Technology Progress and Challenges
- 2024 Akbar, Zoha||Kunhipurayil, Hasna H||**Saliba, Jessica**||Ahmad, Jamil||Al-Mansoori, Layla||Al-Khatib, Hebah A||Al Thani, Asmaa A||Shi, Zumin||Shaito, Abdullah A The Association between Lifestyle Factors and COVID-19: Findings from Qatar Biobank
- 2024 **Serhan, Mireille**||Hourieh, Hiba||El Deghel, Maria||Serhan, Carole Hygienic sanitary risk and microbiological quality of meat and meat-contact surfaces in traditional butcher shops and retail establishments- lessons from a developing country
- 2024 **Serhan, Mireille**||Beyrouthy, Marc||Menhem, Cynthia||Mattar, Jessy||Hassan, Hussein  
Health Potential of Zhourat Middle East Herbal Tea
- 2024 Hadid, Michella||Alwan, Nisreen||Dimassi, Hani||El Deghel, Maria||Khatib, Sami El||**Serhan, Mireille**||Hassan, Hussein F. Microbial assessment of commercial pet foods marketed in the United Arab Emirates

- 2024 Hassan, Hussein F||Dimassi, Hani||Fadous, Andrea||Abou Alayoui, Khalil||Hteit, Rasha||Khatib, Sami||Hassan, Hadi||**Serhan, Mireille** Unveiling food safety knowledge and practices among pet owners in Lebanon
- 2024 Hassan, Hussein F||Dimassi, Hani||Fadous, Andrea||Abou Alayoui, Khalil||Hteit, Rasha||Khatib, Sami||Hassan, Hadi||**Serhan, Mireille** Unveiling food safety knowledge and practices among pet owners in Lebanon
- 2024 **Whaibeh, Emile||Mrad-NakhlÃ©, Myriam||Aouad, Norma||Annesi-Maesano, Isabella||Abbas, The** Environmental Exposures in Lebanese Infants (EELI) birth cohort: an investigation into the Developmental Origins of Health and Diseases (DOHaD)Nivine H.||Chaiban, Clara||Abi Hanna, Jowdy||Abi Tayeh, Georges

## BOOK CHAPTERS

- **Serhan, M.**, Beyrouthy, M., Menhem, C., Mattar, J., Hassan, H. (2024). Health Potential of Zhourat Middle East Herbal Tea. In: Mérillon, JM., Riviere, C., Lefèvre, G. (eds) Natural Products in Beverages. Reference Series in Phytochemistry. Springer, Cham. [https://doi.org/10.1007/978-3-031-04195-2\\_128-1](https://doi.org/10.1007/978-3-031-04195-2_128-1).

## SCIENTIFIC CONTRIBUTIONS

### Huda Abu-Saad Huijer

- Rebecca Farah. Cardiovascular and Pulmonary Rehabilitation in Lebanon. Dissertation successfully defended at University of Maastricht, January 2024.
- Hassan Maatouk. The Effect of Public Access Defibrillation Programs on Survival of Out-Of-Hospital Cardiac Arrest Victims in Lebanon. Lebanese University, Lebanon, 2024.

### Mathilde Azar

- PhD supervisor: Access of Older People to Primary Health Care in Lebanon: A Qualitative Study. University College of Dublin - School of Nursing, Midwifery and Health Systems, since 2020. Ongoing.

### Charbel Al Bayssari

- Ph.D. Co-Supervisor: Jinane Tabcheh; Subversion of the maltose absorption pathway to circumvent antibiotic resistance in Gram-negative bacteria. Ongoing.
- Ph.D Co-Supervisor: Riad Razzouk; Molecular mechanism of Antimicrobial Resistance. Ongoing
- Ph.D Co-Supervisor: Christina Esber; Effect of pesticides (mainly glyphosate) on the emergence of resistant bacteria.

### Abir Abdel Rahman

- Ramona Nasr: Macrolides Usages Anti-Inflammatory Agents on the Treatment of Community – Acquired Pneumonia and Ventilator Associated Pneumonia- Lebanese University- AUB
- Mahdi Rizk: Identifying Barriers and Developing interventions to improve physician’s adherence to venous thromboembolism guidelines in Post –operative colorectal cancer patients using the theoretical domains framework –Lebanese University –USJ

## SCIENTIFIC CONFERENCES & SCHOLARLY LECTURES

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### Huda Abu-Saad Huijer

- International Association for the Study of Pain World Congress on Pain, September 5-9, 2024 Amsterdam, the Netherlands. Global Pain Advocacy Group. Honorary member, Invited.
- MENSA Conference, Bucharest, Romania, July 31- August 4, 2024. Invited.
- 6<sup>th</sup> Maruzza International Congress on Pediatric Palliative Care, October 15-19, Rome Italy. Invited.
- Pediatric Palliative Conference, November 6-8, 2024. Rabat, Morocco

### Serhan Mireille

- Imane Dankar, Hussein Hassan & Mireille Serhan (2024, November). Unpacking dairy dangers: biogenic amines in Lebanese products-Insights for food safety. Presented at the 38th EFFoST International Conference-Future Food Systems: Innovation through progress at scientific interfaces, November 12-14, Bruges, Belgium (POSTER).
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- Nisreen Alwan, Michella Hadid, Hani Dimassi, Maria Deghel, Sami El Khatib, Mireille Serhan & Hussein Hassan (2024, October). Microbial assessment of commercial pet foods marketed in the United Arab Emirates. Presented at the 18th Dubai International Food Safety Conference (DIFSC), Future Foresight in Food Safety, October 21-23, Dubai, UAE (POSTER).

### Mira Daher

- Trends and amounts of consumption of low-calorie sweeteners: a cross-sectional study. 4th Nutrition conference. Beirut, Lebanon- April 29-30, 2024

## EDITORIAL POSITIONS

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### Huda Abu-Saad Huijer

- Associate editor and later member of Editorial Board, International Journal of Nursing Studies
- Editorial Board, Journal of Transcultural Nursing
- Editorial Board, Journal of Nursing Scholarship
- Editorial Board, Japanese Journal of Nursing Science
- Editorial Board, Nursing Children and Young People
- Editorial Board, Annals of Palliative Medicine
- Review Editor, Frontiers in Pain Research

### Mathilde Azar

- Reviewer: International Journal of Therapy and Rehabilitation.
- Reviewer: Journal of Sexual and Reproductive Health
- Reviewer: Journal of Clinical Nursing
- Reviewer: PLOS Global Public Health

- Reviewer: Journal of Sex and Marital Therapy
- Reviewer: BMC Nursing

#### **Maud Rizk**

- Reviewer: Frontiers in Nutrition Journal (FRONTIERS)

#### **Charbel Al-Bayssari**

- Reviewer Antimicrobial Agents and Chemotherapy (AAC)
- Reviewer International Journal of Antimicrobial Agents (IJAA)
- Reviewer Emerging Infectious Diseases (EID)
- Reviewer for the Expert Review of Anti-infective Therapy
- Reviewer Burns
- Reviewer New Microbes New Infections (NMNI)
- Reviewer for the Journal of Global Antimicrobial Resistance (JGAR)
- Reviewer for BMC Microbiology

#### **Mireille Serhan**

- **Editorial Board Member** for *Societal Impacts* journal from Elsevier. <https://www.sciencedirect.com/journal/societal-impacts/about/editorial-board>
- **Associate Editor** for Frontiers in Nutrition journal (Impact factor 6.59, H-index 44, cite score 4.3), with **Sofi G. Julien**-Section Nutrition and Metabolism-Topic: Adherence to the Mediterranean Diet: Microbiota and Non-Communicable Diseases.
- Reviewer for Scopus indexed journals: Heliyon (Elsevier), Frontiers in Nutrition (Frontiers), Applied Food Research (Elsevier), Journal of Dairy Research (Cambridge Core), Foods (MDPI), Beverages (MDPI), Nutrition and Food Science (Emerald), International Journal of Environmental Research and Public Health (Taylor & Francis) and Small Ruminant Research (Elsevier).

## **PROFESSIONAL PRACTICE**

#### **HUDA ABU-SAAD HUIJER**

- Member, Harvard Global Equity Initiative-Lancet Commission on Global Access to Pain Control and Palliative Care (GAPPCP).
- Founding President, Chi Iota Chapter, Sigma Theta Tau International Honor Society in Nursing in Lebanon.
- Consultant, WHO EMRO on the Future of Nursing and Midwifery in the Eastern Mediterranean Region.
- Vice-President, National Committee on Pain Relief and Palliative Care (Appointed by Minister of Health); Chair, Research Committee.
- Past president, Lebanese Society for the Study of Pain.
- Member, Advisory Board of the Order of Nurses in Lebanon.
- Member, Association of Deans and Directors of Schools of Nursing in Lebanon.
- Advisory Board, Semahat Arsel Nursing Education, Practice, and Research Center (SANERC), Koc University, Turkey.

- External Reviewer: Proposal to establish a Bachelor Degree of Science in Nursing at the University of Kuwait.
- Member of International Association for the Study of Global Pain Advocacy Working Group.
- Board member, Research Center for the Scientific Society of Arab Nursing Faculties.
- Member of the Scientific Board, 6<sup>th</sup> Maruzza Foundation Congress on Pediatric Palliative Care, October 16-18, 2024, Rome, Italy.

#### **Nivine Abbas**

- Member of the ISEE Ethics and Philosophy committee (starting 2022) and vice chair (starting 2024).
- Member in the Eastern Mediterranean Chapter, International Society for Environmental Epidemiology (ISEE) (starting 2022).
- Member in Le Groupe de Réflexion sur l’Ethique en Méditerranée (GREM) (starting 2018).

#### **Abir Abdel Rahman**

- Member of the UK society of Behavioural Medicine

#### **Charbel Al-Bayssari**

- Member, International Society for Infectious Diseases.
- Member, American Society of Microbiology.
- Member, European Society of Clinical Microbiology and Infection (ESCMID).
- Member in the specialized program committee in the Ministry of Education and Higher Education (September 2022- present).

#### **Mathilde Azar**

- Member of the Order of Nurses in Lebanon.
- Member of the Lebanese Order of Midwives.
- Member of the SIDIIEF (Secrétariat international des infirmières et infirmiers de l'espace francophone).
- Member, Association of Deans and Directors of Schools of Nursing in Lebanon.
- Member of the Council of International Neonatal Nurses (COINN).
- Member of the Technical Committee of the MEHE for the review of the curricula.
- Member of the Chi Iota Chapter of Sigma
- Member of the Scientific Society of Arab Nursing Faculties

#### **Hiba Chakhtoura**

- Member of the Colloquium – MEHE
- Member of the Order of Nurses in Lebanon.
- Member of the Chi Iota Chapter of Sigma

#### **Mira Daher**

- Member, Lebanese Order of Dietitians (ID# 40), (January 2022-present)
- Member, Disciplinary council, Lebanese Order of Dietitians (November 2022-present)

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**Zeina Dassouki**

- Member, American Association for Cancer Research (AACR)

**Mira El Chaar**

- Member - American Society for Microbiology (ASM)
- Member- International Society of Blood Transfusion (ISBT)
- Member -European Society of Clinical Microbiology and Infection (ESCMID)
- Member - Lebanese MLS colloquium committee

**Jessica Finianos**

- Member in the International Association for the Study of Pain.

**Peggy Germanous**

- Member of the Order of Nurses in Lebanon.

**Rabab Hourany**

- Member of the Order of Nurses in Lebanon.

**Dima Mnayer**

- Member, Lebanese Order of Engineers and Architects, Beirut, Lebanon (ID#28038) (2004)

**Myriam Mrad**

- Chair of the Eastern Mediterranean Chapter of the International Society of Environmental Epidemiology ISEE
- Associate Editor, Journal of Health and Pollution

**Mireille Serhan**

- Member, Journal of Dairy Research Community (Hannah Dairy Research Foundation and Journal of Dairy Research) (November 2021-To present).
- Invited Member, Abu Dhabi University Global initiative (November 2021- present).
- Member, International Association of Food Protection (IAFP), Iowa, USA, (June 2019-Present).
- Member, European Federation of Food Science and Technology (EFFoST), (2018- Present).
- Member, Lebanese Order of Engineers and Architects, Tripoli, Lebanon. (ID# 6535), (2009-Present).

## SERVICE TO FHS AND UOB

### FHS STANDING COMMITTEES

FACULTY COUNCIL	Strategic Plan	UNDERGRADUATE CURRICULUM	RESEARCH
Dean Huijer (Chair)	Dr. M. Chaar (Chair)	Dr. N. Abbas (Chair)	Dr. M. Mrad (Chair)
Dr. A. Nasreddine	Dr. H. Aoun	Dr. H. Chamieh	Dr. D. Mnayar
Dr. M. Azar	Dr. J. Saliba	Dr. M. Rizk	Dr. C. Bayssari
Ms. M. Mrad	Dr. D. Mnayer	Ms. H. Chakhtoura	Dr. M. Azar
Dr. M. Serhan	Dr. M. Azar	Lynn Merhi (NP) * Elected Student	Dr. M. Rizk
Dr. H. Aoun			Dr. H. Aoun
			Cyril Khalil (PH) * Elected Student

ACADEMIC COMMITTEE	GRADUATE STUDIES	PRE-MED	STUDENT OUTCOME
Dr..H.Chakhtoura (Chair)	Dr. M. Azar (Chair)	Dr. L. Haddad (Chair)	Dr. J. Saliba (Chair)
Dr. H. Aoun	Dr. L. Haddad	Mrs. H. Habib	Dr. M. Moussa
Mrs. C. Constantine	Dr. M. Mrad	Ms. G. Abou Lteif	Dr. M. Rizk
Mrs. P. Germanos	Dr. M. Serhan	Mrs. H. Rouaiheb	Mr. E. Wheibeh
Mrs. L. Jaalouk	Dr. H. Aoun	Dr. N. Abbas	Mrs. R. Chaddad
Mrs. H. Rueiheb	Alicia Abi Nader (MPH) * Elected Student	Ms. L. Greige	Mrs. P. Germanos
Mrs. T. Maaraoui		Maria Abdo (MLS) * Elected Student	

WEBSITE / SOCIAL MEDIA	STUDENTS' RECRUITMENT	CAMPUS LIFE & CULTURAL
Mr. E. Wheibeh (Chair)	Dr. A. Nasreddine (Chair)	Dr. H. Aoun (Chair)
Mrs. C. Constantine	Dr. M. Daher	Mrs. C. Lahoud
Mr. D. Atallah	Dr. H. Aoun	Mr. D. Atallah
Mrs. H. Habib	Mrs. L. Jaalouk	Ms. G. Shoucair
Mrs. M. Deghel	Mrs. P. Germanos	Mrs. Maria Deghel
Dr. E. Abdo	Mrs. R. Chaddad	Mrs. J. Broumana
Mrs. M. Shehadie Ex Officio	Carla Abou Zein * Elected Student	Mrs. L. Jaalouk
		Dr. J. Fenianos

SUMMER INSTITUTE	ALUMNI	NEWSLETTER
Dr. M. Rizk (Chair)	Dr. E. Abdo (Chair)	Dr. C. Bayssari (Chair)
Dr. H. Aoun	Dr. A. El Zein	Mrs. L. Dib
Dr. M. Azar	Dr. E. Rahal	Mrs. M. Khalil
Dr. M. Mrad	Ms. H. L. Affara	Mrs. R. Hourany
Dr. D. Mnayer	Dr. K. El Firikh	Dr. M. Daher
Dr. Z. Dasouki	Mrs. L. Jaalouk	Dr. N. Abbas
	Ms. M. Chrabieh	Dr. J. Fenianos
	Mrs. M. Khalil	
	Dr. Z. El Khatib	
	Gian Carlo Sayah (MLS) * Elected Student	

## FHS FACULTY MEMBERS SERVING ON UOB COMMITTEES

### Admissions Committee

Mrs. Loyal Greige

### Administrative Committee

Dr. Maud Rizk

### Scholarships Committee

Dr. Myriam Mrad

Ms. Hiba Rouaiheb

Dr. Elias Abdo

### Library Committee

Dr. Nivine Abbas

### Recruitment Committee

Dr. Abir Abdel Rahman

Dr. Myriam Mrad

Dr. Mira Daher

### University Wide Curriculum Committee

Mrs. Peggy Germanos

Dr. Dima Mnayer

Dr. Abir Abdel Rahman

### Commencement Committee

Dr. Zeina Dassouki



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### Ranking Committee

Dr. Mathilde Azar

### Online Teaching & Assessment Committee

Dr. Jessica Saliba

### Internationalization & Engagement Committee

Dr. Habbouba Aoun

### UOB Senate

Dr. Elias Abdou

Mrs. Hiba Habib

### UOB SP

Dr. Mira El Chaar

### UOB Quality Assurance Committee/ACQUIN

Dr. Nivine Abbas & Dr Mathilde Azar

### UOB Research Committee

Dr Myriam Mrad

### IRB

Dr. Nivine Abbas

Dr Abir Abdel Rahman

Dr. Habbouba Aoun

### University Code of Conduct committee

Dr Mireille Serhan

### UOB IQAU- Steering committee

Dr. Mireille Serhan

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## FUTURE DIRECTIONS

FHS plans to continue expanding its current undergraduate and graduate academic programs, establish market-driven online diploma and certificate programs, place more emphasis on research and scholarly productivity of faculty and graduate students, and more actively recruit top caliber students.

FHS will continue to put emphasis on the following strategic goals:

- Supporting current faculty in applying for promotion
- Developing strategic plans for short and long-term recruitment of top-caliber students.
- Achieving accreditation for all academic programs
- Developing and launching the Nutrition graduate program
- Launching the new FHS Optic and Optometry program
- Launching the interdisciplinary Ph.D. program upon MEHE approval
- Creation of academic Centers of Excellence
- Launching online diploma/certificate programs of relevance to the health care sector such as Health Informatics and Climate Change and Health in addition to others
- Establishing strategic partnerships locally and internationally
- Engaging the community of interest in FHS academic programs
- Establishing scholarships and endowed funds to sustain current & new programs