

PERSONAL INFORMATION

Elie Salem Sokhn



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Sex Male | Date of birth 21/08/1986 | Nationality Lebanese

WORK EXPERIENCE

Sept 2019-present

Associate Professor of Clinical Microbiology, Faculty of Health Sciences, Beirut Arab University (BAU)

Taught Lectures:

- Virology and Mycology (Fall 2019, Fall 2020, Fall 2021, Fall 2022, Fall 2023, Fall 2024)
- Infection Control & Management (Fall 2019, Fall 2020, Spring 2022, Fall 2022, Fall 2023, Fall 2024)
- Microbiology for Health care workers (Fall 2019, Fall 2020, Fall 2021, Fall 2022, Fall 2023, Fall 2024)
- Advanced Clinical Laboratory Microbiology (Fall 2019, Fall 2020, Fall 2021, Fall 2022, Fall 2023, Fall 2024)
- Seminars in Specialized Topics (Fall 2019, Fall 2020, Fall 2021)
- Microbiology (Spring 2020, Spring 2021, Spring 2022, Spring 2023, Spring 2024)
- Clinical Laboratory Bacteriology (Spring 2020, Spring 2021, Spring 2022, Spring 2023, Spring 2024)
- Advanced Clinical Laboratory Bacteriology (Spring 2020, Spring 2021, Spring 2022, Spring 2023, Spring 2024)
- Safe Environment and Infection Control (Spring 2020, Spring 2021, Spring 2022, Spring 2023, Spring 2024)
- Food Microbiology (Fall 2020, Fall 2021, Fall 2022, Fall 2023, Fall 2024)

June 2016 till present

Head of the Microbiology & Molecular Biology Departments

Hopital Libanais Geitaoui - Centre Hospitalier Universitaire

Spring 2015 till Spring 2019

Lecturer, Faculty of Nursing and Health Sciences, Notre Dame University (NDU)

Fall 2015 till Fall 2016

Lecturer, Faculty of Natural and Applied Sciences, Notre Dame University (NDU)

Fall 2016 till Spring 2019

Lecturer, Faculty of Health Sciences, American University of Science and Technology (AUST)

Spring 2015 till Fall 2015

Lecturer, Faculté des Sciences et des Arts, Lebanese Canadian University (LCU)

Spring 2015 till Spring 2019

Lecturer, Food Technologies Department, Al Kafaat University (AKU)

EDUCATION

2011- 2015

PhD in Microbiology

Title of the thesis 'Antibiotic Consumption and Molecular Epidemiology of ESBL-Producing *Escherichia coli* and *Klebsiella pneumoniae* in a Lebanese Hospital'
University of Surrey, Guildford, London (Faculty of Health and Medical Sciences: Professor Roberto La Razione)

2008- 2010

MSc of Science (Major: Clinical Laboratory Sciences)

University of Balamand, Beirut, Lebanon

2004- 2007

BSc in General Biology

Notre Dame University, Zouk Mosbeh, Lebanon

Honors

2005- 2006

Academic recognition - Dean's List - Notre Dame University

2023- 2024

An Award for being one of the Most Active Researchers – Beirut Arab University

MEMBERSHIP

Member in a scientific organization (APUA: Alliance for the Prudent Use of Antibiotics)

Member in the Lebanese Society of Infectious Diseases & Clinical Microbiology (LSIDCM)

Scientific Communications and Abstracts

Attended the 24th Annual Congress of the Lebanese Society of Infectious Diseases & Clinical Microbiology - LSIDCM

27 to 28 of September 2024- Online

Attended the 21st Annual Congress of the Lebanese Society of Infectious Diseases & Clinical Microbiology - LSIDCM

27 to 29 of February 2020- Le Royal Hotel, Beirut, Lebanon

Attended the 19th Annual Congress of the Lebanese Society of Infectious Diseases & Clinical Microbiology - LSIDCM

22 to 24 of February 2018- Le Royal Hotel, Beirut, Lebanon

Attended the 18th Annual Congress of the Lebanese Society of Infectious Diseases & Clinical Microbiology - LSIDCM

1 to 3 of March 2017- Phoenicia Hotel, Beirut, Lebanon

Attended the 17th Congress of the Lebanese Society of Infectious Diseases & 4th Annual Congress of FASCMID

18 to 20 of February 2016- Hilton Habtoor Grand Hotel, Beirut, Lebanon

Attended The American Society of Microbiology Virtual Workshop on Scientific Writing and Publishing

21 of March 2015, Beirut

A Practical Approach to Evaluating Machine Learning Algorithms for Anomaly Detection in Epidemic Surveillance

A Saab, AH Dabboussi, C Abi Khalil, J Rahme, **E Salem Sokhn**, C El Morr.
Medical Informatics Europe Conference (MIE), Glasgow, Scotland, 19-21 MAY 2025.

Enhancing Epidemic Early Warning Systems With Social Media Data

Nadine Kachmar, Deniz Ozdemir, Iman Yousuf, Abdul Hamid Dabboussi, Antonie Saab, Elie Salem-Sokhn, Christo El Morr.
IC2AI25, La Sagesse University, Furn El Chebbak, Beirut (February 11-13 2025).

Identifying the Emerging Potential Infectious Diseases: A Scoping Review

Yara Khachab, Antoine Saab, Christo El Morr, Yahya El-Lahib, **Elie Salem Sokhn**
AMR symposium, The Sheraton Centre, Toronto (19-20 Nov, 2024).

Predicting Infectious Disease Outbreaks: The Power of AI in Early Warning Systems.

Ozdemir, D. H., Asdaah, Y., Saab, A., El-Lahib, Y., **Salem Sokhn, E.**, & El Morr, C.
The Conference for Undergraduate Health Research (2024, May 10), Toronto.

The Potential Harnessing AI for Epidemic and Pandemic Preparedness: A Review of Early Warning Systems

El Morr, C., Ozdemir, D. H., Asdah, Y., Saab, A., El-Lahib, Y., & **Salem Sokhn, E.**
The PEPP MENA Forum (April 23, 2024), Beirut

Prevalence of type 2 diabetes (T2D) in Lebanon: association with inflammatory and infectious clinical markers

P. Chedid and **E. Sokhn**
57th Annual Scientific Meeting – 7–9 June 2023, Prague, Czech Republic

In Vitro Assessment of Colistin-Carbapenem Activity Against *Acinetobacter* Spp Recovered from Lebanese Patients

Micheline Soudeih, **Elie Salem Sokhn**, Ziad Daoud, Dolla Sarkis
ASM Microbe 2018 - American Society for Microbiology 118th Annual Meeting and 58th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), 7-11 June 2018, Atlanta (USA)

Phenotypic and genotypic characterization of beta-lactamases and clonality in *Acinetobacter* spp. in a Lebanese hospital

M. Hajjar Soudeih, Z. Daoud, **E. Salem Sokhn**, D. Karam Sarkis
28th European Society of Clinical Microbiology and Infectious Diseases (ESCMID), 21–24 April 2018, Madrid, Spain

Resistance and Clonality in *Escherichia coli* and *Klebsiella* spp., and Relationship with Antibiotic Consumption in Major Lebanese Hospitals

Ziad Daoud, Maroun Bou Zerdan, Youssef Bou Ferraa, Mohamad Wahoud, Ziad Al Hassan, **Elie Salem**, Elias Dahdouh, Ghassan Matar.
LAAS Conference (Lebanese Association for the Advancement of Science), University of Balamand, Al Kurah, Lebanon, April 25-26, 2018

Multi-drug Resistant Gram-negative Bacilli In Lebanese Poultry

Iman Dandachi, Ahmad Sleiman, **Elie Salem**, Elias Dahdouh, Bassel Bazzal, Jean-Marc Rolain, Ziad Daoud
LAAS Conference (Lebanese Association for the Advancement of Science), University of Balamand, Al Kurah, Lebanon, April 25-26, 2018

ESBL-producing *Escherichia coli* and *Klebsiella pneumoniae* in two major Lebanese hospitals: molecular epidemiology and correlation with consumption (Poster + Oral presentation)

Anas Obeid, Peter Maliha, Samah Abdallah, Estelle Akl, maria Deeb, Hassan El Moussawi, **Elie Salem-Sokhn**, Ghassan Matar, Ziad Daoud

19th Annual Congress of the Lebanese Society of Infectious Diseases & Clinical Microbiology - LSIDCM, 22-24 February 2018- Le Royal Hotel, Beirut, Lebanon

In vitro analysis of colistin-carbapenem combination activity against *Acinetobacter* spp infection

Micheline Soudeih, **Elie Salem Sokhn**, Ziad Daoud, Dolla Sarkis

19th Annual Congress of the Lebanese Society of Infectious Diseases & Clinical Microbiology - LSIDCM, 22-24 February 2018- Le Royal Hotel, Beirut, Lebanon

Molecular epidemiology and clonality of *Acinetobacter* spp in a Lebanese hospital over a period of one year

Micheline Soudeih, **Elie Salem Sokhn**, Ziad Daoud, Dolla Sarkis

19th Annual Congress of the Lebanese Society of Infectious Diseases & Clinical Microbiology - LSIDCM, 22-24 February 2018- Le Royal Hotel, Beirut, Lebanon

Prevalence and characterization of multidrug resistant isolates isolated from Lebanese poultry, a nationwide study

Iman Dandachi, **Elie Salem Sokhn**, Elias Dahdouh, Caren Challita, Seydina M.Diene, Jean-Marc Rolain, Ziad Daoud

27th European Congress of Clinical Microbiology and Infectious Diseases, 22–25 April 2017, Vienna, Austria

***Escherichia coli* Isolated from Urinary Tract Infections of Lebanese Patients between 2005 and 2013: Epidemiology and Profiles of Resistance**

Ziad Daoud, **Elie S. Salem**, José Kmeid, Maher Balkis, Eid Azar, Khalil Masri

115th General Meeting of the American Society for Microbiology, 30 May –2 June 2015, New Orleans, Louisiana

The Evolutionary History of Methicillin-Resistant *Staphylococcus aureus* (MRSA) between 2005 and 2009

Elie S. Salem, Antoine Asmar, Hicham Abdel Nour, Ziad Daoud

115th General Meeting of the American Society for Microbiology, 30 May –2 June 2015, New Orleans, Louisiana

Carriage of ESBL, AmpC and Carbapenemase producing Enterobacteriaceae Among Nursing Home Residents in North Lebanon

I. Dandashi, **E.S. Salem**, E. Azar, Z. Daoud

25th European Congress of Clinical Microbiology and Infectious Diseases, 25–28 April 2015, Copenhagen, Denmark

NDM-1 producing *Enterobacter cloacae* isolated from hospital wastewater in Lebanon

Z. Daoud, **E.S. Salem**, K.Kfoury, R. Abdel Massih, G. Matar

25th European Congress of Clinical Microbiology and Infectious Diseases, 25–28 April 2015, Copenhagen, Denmark

Carbapenem Resistant *Enterobacter cloacae* in the wastewater of a Lebanese Hospital

Ziad Daoud, **Elie Salem**, Khalil Kfoury, Roula M. Abdel-Massih, Ghassan Matar

LAAS Conference (Lebanese Association for the Advancement of Science), USJ, Mathaf, Beirut, Lebanon, April 15-17, 2015

Occurrence of Multi-Drug Resistant Gram-Negative Bacilli in Nursing Home Residents of North Lebanon (Oral Presentation)

Iman Dandachi, **Elie Salem**, Eid Azar, Claude Afif, Salam Samad, Khalil Masri, Ziad Daoud

LAAS Conference (Lebanese Association for the Advancement of Science), USJ, Mathaf, Beirut, Lebanon, April 15-17, 2015

Prevalence and Molecular Epidemiology of ESBL producing *E. coli* and *K. pneumoniae* in Lebanese Medical Centers; Strong Correlation between Antibiotic Consumption and Resistance to Cephalosporins and Ciprofloxacin

Ziad Daoud, **Elie Salem-Sokhn**, Jihad Irani, Katia Cheaito, Nathaline Haidar-Ahmad, Ghassan M. Matar, Shira Doron

Infectious Diseases Society of America (IDWeek), 8-12 October 2014, Philadelphia, Pennsylvania

blaCTX-M-15 predominates in *Escherichia coli* and *Klebsiella pneumoniae* isolated from Lebanese patients

E. Salem, RM. La Ragione, A. Cottell, J. Ritchie, Z. Daoud

54th Interscience Conference on Antimicrobial Agents and Chemotherapy, 5-9 September 2014, Washington, D.C., United States of America

Impact of a Short Message Service Alert system of MDR bacteria on Antibiotic Prescription and Consumption

Ziad Daoud, Marie-Ann Abou Jaoudeh, **Elie Salem Sokhn**, Elias Dahdouh, Khalil Masri, Shira Doron

54th Interscience Conference on Antimicrobial Agents and Chemotherapy, 5-9 September 2014, Washington, D.C., United States of America

Epidemiology and resistance of *S. aureus* infections at Saint George Hospital-UMC, Beirut

Z. Daoud, **E.S. Salem**, A.Asmar, H. Abdel-Nour, C. Afif, E. Azar

24th European Congress of Clinical Microbiology and Infectious Diseases, 10–13 May 2014, Barcelona, Spain

Epidemiology and Resistance of *S. aureus* infections in Beirut

Ziad Daoud, **Elie Salem**, Antoine Asmar, Hicham Abdel-Nour, Claude Afif, Eid Azar

20th LAAS International Science Conference, Advanced Research for Better Tomorrow, Doctoral School of Sciences and Technology, Lebanese University, Hadath, Lebanon, March 27-29, 2014

Genetic and Phenotypic Diversity of ESBL-Producing *Escherichia coli* and *Klebsiella pneumoniae* in North Lebanon

Salem, S.E, Laragione, R.M, Cottell, A., Ritchie, J., Daoud, Z.

53rd Interscience Conference on Antimicrobial Agents and Chemotherapy, 10 September 2013, Denver, Colorado

Mutant Prevention Concentration of Carbapenems against *Pseudomonas* spp. and *Acinetobacter* spp.

Dahdouh, E., Shoucair, S.H, **Salem, S.E.**, Daoud, Z.

53rd Interscience Conference on Antimicrobial Agents and Chemotherapy, 10 September 2013, Denver, Colorado

Epidemiology and resistance of *Acinetobacter baumannii* in the north of Lebanon (ePoster)

Z. Daoud, K. Masri, S. Samad, **E.S Salem**, T. Sfeir

23rd European Congress of Clinical Microbiology and Infectious Diseases, 27–30 April 2013, Berlin, Germany

Ciprofloxacin mutant prevention concentrations in urinary extended-spectrum beta-lactamases (ESBL)-producing and non-producing *Escherichia coli* and *Klebsiella pneumoniae* (Poster session)

Z. Daoud, **E.S Salem**, E. Azar, K. Masri, S. Doron
23rd European Congress of Clinical Microbiology and Infectious Diseases, 27–30 April 2013, Berlin, Germany

Faecal carriage of extended-spectrum beta-lactamases (ESBL)-organism among nursing home residents: dynamics, risk factors and clinical implications (Poster session)

E. Azar, M. Jallad, J. Irani, C. Afif, **E. Salem**, Z. Daoud
23rd European Congress of Clinical Microbiology and Infectious Diseases, 27–30 April 2013, Berlin, Germany

Multidrug-resistant Gram-negative bacilli in hospital waste water of a third world country in transition (Poster session)

K. Kfoury, R.M. Abdel-Massih, **E.S Salem**, C. Afif, Z. Daoud
23rd European Congress of Clinical Microbiology and Infectious Diseases, 27–30 April 2013, Berlin, Germany

Molecular epidemiology of ESBL-producing *Escherichia coli* and *Klebsiella pneumoniae* in North Lebanon (Oral presentation, LAAS conference)

Salem, SE, La Ragione, RM, Cottell, A, Ritchie, J, Daoud, Z
Oral presentation at the Crowne Plaza Hotel, April 5- 2013, Beirut, Lebanon

Detection and analysis of multi drug resistant Gram-negative bacilli in the waste water of a general hospital in Beirut (Oral presentation, LAAS conference)

K. Kfoury, R. Abdel Massih, **E. Salem**, Z. Daoud
Oral presentation at the Crowne Plaza Hotel, April 5- 2013, Beirut, Lebanon

Antibiotic consumption and resistance in Lebanon (Oral presentation, EGRBS conference)

Z. Daoud, S. Barakat, **E. Salem**, C. Afif
Oral presentation at the American University of Science and Technology (AUST), May 31- 2011, Achrafieh, Lebanon

Phenotypic Characterization of beta-Lactamases and Post Antibiotic Effect of Tigecycline on Gram Negative Bacilli Isolated from Lebanese Patients (Poster session)

S. Barakat, **E. Salem**, Z. Daoud
4th Annual Poster Conference in Biology & Biomedical Sciences, Lebanese American University, May 4, 2011, Jbeil, Lebanon

Phenotypic detection of ESBL and prevalence of CTX-M-15 gene among *Escherichia coli* and *Klebsiella pneumoniae* (Poster session)

E.Salem, E.Chalhoub, J.Irani, E. Azar
Lebanese and Arab Society of infectious disease, October 2010, Beirut, Lebanon

Correlation of consumption and resistance in *Staphylococcus aureus* in Lebanon (Poster session)

Z. Daoud, M. Hajjar, **E. Salem**, E. Azar, C. Afif
21st ECCMID, 27th ICC, May 7-10, Milano, Italy

PUBLICATIONS

Epidemiology, Antimicrobial Resistance Patterns, Management, and Predictors of Mortality in Diabetic Foot Infections in a Lebanese Hospital: A Retrospective Observational Study

Aya Ali Ahmad, **Elie Sokhn**, Carole Dib, Patricia Shuhaiber, Mohamed Issa, Rania Itani

Journal of Infection and Public Health, 2026, 103282.

Genomic characterization of invasive disease-causing *Streptococcus pneumoniae* in Lebanon, 2003–2025

Fatima Dakroub, Alannah C. King, Fata Akl, Alissar Zaghlout, Nancy Hourani, Harry Hung, Sarah Barada, Celina F. Boutros, Ana D. S. Ferreira, Lesley McGee, Lina Reslan, Stephanie Damaj, Nada Ghosn, Ghassan M. Matar, George F. Araj, Antoine Abou Fayad, Stephen D. Bentley, Stephanie W. Lo, Ghassan S. Dbaiibo, and for the Lebanese Inter-Hospital Pneumococcal Surveillance Program investigators (including **Elie Salem Sokhn**)
Microbial Genomics, 2026, 12:3.

Optimized extraction of polyphenols from rooibos tea (*Aspalathus linearis*) and their biological activities

Mayyas M. Othman, Bilal Azaki, Salma Khazaal, Maymouneh Rabie, **Elie Salem Sokhn**, Richard G. Maroun, Espérance Debs, Nicolas Louka and Nada El Darra
Frontiers in Nutrition, 2026, 13:1778749.

Association of post-transcriptional regulatory gene single nucleotide polymorphisms with Alzheimer's disease.

Nisrine Bissar, Rayan Kassir, Ferdos Missilmani, **Elie Salem-Sokhn**, Said El Shamieh
Journal of Alzheimer's Disease, 2026

Prevalence and antimicrobial resistance of *Acinetobacter baumannii* isolates at Lebanese Hospital Geitaoui-University Medical Center: A Five-year study (2017–2021)

Ghassan Ghssein, Jana Al Ariss, Taghrid Chaaban, Zahra Hnaineh, **Elie Salem Sokhn**
International Journal of Medical Microbiology, 322, (2026), 151710.

Valorization of Onion By-Products and Assessment of Their Biological Activities

Maymouneh Rabie, Salma Khazaal, Mayyas M. Othman, **Elie Salem Sokhn**, Espérance Debs, Suhair Sunoqrot, Bilal Azakir, Nicolas Louka and Nada El Darra
Foods 2026, 15, 637.

Infectious disease burden and surveillance challenges in Jordan and Palestine: a systematic review and meta-analysis

Eman Farouq Badran, Abdullah Rayyan, Mira Al Jaber, Muayyed Azzam, Raghad Ramadan, Yousef Khader, Raeda Alqutob, Faris G. Bakri, Radwan Qasrawi, Taimein Yacoub, Areej Sharaq, Nadine Fraihat, Hana Trigui, **Elie Sokhn**, Reema Tayyem, Emmanuel Musa and Jude Dzevela Kong
Frontiers in Digital Health, 2026; 7:1713089.

Prevalence and characterization of bacterial rectal colonization patterns in pediatric patients: A cross-sectional study

Aynaa Al-Khatib, Amal Naous, **Elie Salem Sokhn**
New Microbes and New Infections, Volume 70, April 2026, 101707

Digital health determinants & divide in the Arab world: A cross-sectional study

Radwan Qasrawi, Reema Tayyem, Suliman Thwib, Ghada Issa, Malak Amro, Razan AbuGhoush, Haleama Al Sabbah, Khlood Bookari, Noor Alawadhi, Sabika Allehdan, Hana Trigui, **Elie Sokhn**, Yousef Khader, Eman Badran, Iman Kamel, Atiyeh Abdallah, Mohamed Jemaà, Emmanuel Musa, Jude Dzevela Kong
PLoS One 20(12), December 31, 2025

Prevalent Fungal Pathogens and Antifungal Resistance in Lebanon: A Scoping Review

Yara Khachab, Majd Bou Ghader, Vera Tahesh, Racha Khoumassi, **Elie Salem Sokhn**

Journal of Infection and Public Health, Volume 19, Issue 2, February 2026.

Assessing the impact of digital health literacy on health management practices in Arab Middle Eastern and North African countries: insights from predictive modeling

Radwan Qasraw, Haleama Al Sabbah, Ghada Issa, Suliman Thwib, Malak Amro, Siham Atari, Reema Tayyem, Khlood Bookari, Noor Alawadhi, Sabika Allehdan, Hana Trigui, **Elie Sokhn**, Yousef Khader, Eman Badran, Iman Kamel, Atiyeh Abdallah, Mohamed Jemaà, Emmanuel Musa and Jude Dzevela Kong
Frontiers in Digital Health, 2025; 7:1555436.

Phenotypic, Targeted Genotypic, and Antimicrobial Susceptibility Profiling of Extended-Spectrum β -Lactamase Production and Exclusive bla_{OXA-48} Gene Detection in *Escherichia coli* and *Klebsiella pneumoniae* Isolates From a South Lebanese Hospital

Aya Kahil, **Elie Salem Sokhn**

Journal of Clinical Laboratory Analysis, 2025; 0:e70108

A systematic review of preclinical studies on therapeutic potential of mesenchymal stem/stromal cells and their secretome in bacterial infections

Leen Ali, Fatimah Shaaban, **Elie Salem Sokhn** and Fatima A. Saleh
Stem Cell Research & Therapy, (2025) 16:456.

Evaluation of vitamin D status, vitamin D receptor expression, and innate immune mediators in COVID-19

Ferdos Missilmani, Dima Maarabouni, **Elie Salem-Sokhn**, Spyridon N. Karras, Hana M. A. Fakhoury and Said El Shamieh
Frontiers in Endocrinology, 2025.

Therapeutic Effects of Mesenchymal Stem Cell Secretome Derived From Adipose Tissue, Umbilical Cord, and Bone Marrow Against Extended-Spectrum Beta-Lactamase-Producing and Non-Producing *Escherichia coli* Strains Isolated From Urinary Tract Infections

Leen Ali, **Elie Salem Sokhn**, Charbel Khalil, Fatima A. Saleh
The FASEB journal, 2025, 39 (13).

Methicillin-resistant *Staphylococcus aureus* (MRSA) and antimicrobial resistance in Lebanon: A scoping review

Afnan Mozhar Hamwi, **Elie Salem-Sokhn**

The Microbe, 7 (2025).

Practical Approach for Evaluating Machine Learning Anomaly Detection Algorithms for Epidemic Early Warning Systems

Antoine SAAB, Abdul Hamid DABBOUSSI, Cynthia ABI KHALIL, Jihane RAHME, **Elie SALEM SOKHN**, and Christo EL MORR

Studies in Health Technology and Informatics, 2025, 15:327:1205-1209.

The role of machine learning in infectious disease early detection and prediction in the MENA region: A systematic review

Radwan Qasrawi, Ghada Issa, Suliman Thwib, Razan AbuGhoush, Malak Amro, Raghad Ayyad, Stephanny Vicuna, Eman Badran, Yousef Khader, Raeda Al Qutob, Faris Al Bakri, Hana Trigui, **Elie Sokhn**, Emmanuel Musa, Jude Dzevela Kong
Informatics in Medicine Unlocked, 56 (2025).

The Impact of Digital Literacy and Internet Usage on Health Behaviors and Decision-Making in Arab MENA Countries

Reema Tayyema, Radwan Qasrawi, Haleama Al Sabbah, Malak Amro, Ghada Issa, Suliman Thwib, Siham Hani Atari, Khlood Bookari, Noor Alawadhi, Sabika Allehdan, Hana Trigui, **Elie Sokhn**, Yousef Khader, Eman Badran, Iman Kamel, Atiyeh Abdallah, Mohamed Jemaà, Emmanuel Musa, Jude Dzevela Kong
Technology in Society, (2025).

Prevalence and antimicrobial resistance of gram-positive pathogens in Lebanon: The need for surveillance and stewardship

Yara Khachab, Racha Khoumassi, **Elie Salem Sokhn**
New Microbes and New Infections, 65 (2025)

Prevalence and Progression of Vitamin D Deficiency in Greater Beirut and Mount Lebanon from 2013 to 2022: An Analysis of 19,452 Adults

Pia Chedid, **Elie Salem-Sokhn**, Said El Shamieh, Rajaa Fakhoury
Journal of Clinical Laboratory Analysis, 2025; 0:e70023

Understanding and addressing β -lactam resistance mechanisms in gram-negative bacteria in Lebanon: A scoping review

Yara Khachab, Mohamad Hodroj, **Elie Salem Sokhn**
Heliyon, 2025; 11(3).

Antimicrobial activity of adipose-derived mesenchymal stromal cell secretome against methicillin-resistant *Staphylococcus aureus*

Fatimah Shaaban, **Elie Salem Sokhn**, Charbel Khalil, and Fatima A. Saleh
Stem Cell Research & Therapy, (2025) 16:21

Prevalence of Urinary Tract Infections and Antibiotic Susceptibility Patterns of Uropathogens among Neonates in Maternity Hospital, Kuwait: A Six-year Retrospective Study

Moghnia OH, Al Otaibi HS, Al Haqqan AM, **Sokhn ES**, Pathan SS, Abdulaziz NE, Mohammed HY, Al-Sweih NA.
Medical Principles and Practice, 2025

Exploring AI governance in the Middle East and North Africa (MENA) region: gaps, efforts, and initiatives

Hana Trigui, Fatma Guerfali, Emna Harigua-Souiai, Radwan Qasrawi, Chiraz Atri, **Elie Salem Sokhn**, Christo El Morr, Karima Hammami, Oussama Souiai, Jianhong Wu, Jude Dzevela Kong, Jean Jacques Rousseau and Sadri Znaidi.
Data & Policy (2024), 6: e83.

From Spent Black and Green Tea to Potential Health Boosters: Optimization of Polyphenol Extraction and Assessment of their Antioxidant and Antibacterial Activities

Ahlam Harfoush, Aseel Swaidan, Salma Khazaal, **Elie Salem Sokhn**, Nabil Grimi, Espérance Debs, Nicolas Louka, Nada El Darra.
Antioxidants, 2024, 13, 1588.

Optimized Extraction of Polyphenols from Kiwifruit Peels and Their Biological Activities

Batoul Shkeir, Nada El Darra, Bilal Azakir, Salma Khazaal, **Elie Salem Sokhn**, Mohamed Koubaa, Richard G. Maroun, Nicolas Louka, and Espérance Debs.
BioTech, 2024, 13(4).

Prevalence of bacteremia and antimicrobial resistance pattern among patients in South Lebanon

Zahra Hnaineh, **Elie Salem Sokhn**
American Journal of Infection Control, 2024.

Knowledge and prevalence of urinary tract infection among pregnant women in Lebanon

Iman Abu Aleinein, **Elie Salem Sokhn**
Heliyon Journal, 2024;10 (2024).

Gram-negative bacterial colonization in the gut: Isolation, characterization, and identification of resistance mechanisms

Yara Khachab, Said El Shamieh, **Elie Salem Sokhn**
Journal of Infection and Public Health, 2024;17(2024).

AI-based epidemic and pandemic early warning systems: A systematic scoping review

Christo El Morr, Deniz Ozdemir*, Yasmeen Asdaah*, Antoine Saab, Yahya El-Lahib, **Elie Salem Sokhn**
Health Informatics Journal, 2024;30(3).

Identifying the panorama of potential pandemic pathogens and their key characteristics: a systematic scoping review

Yara Khachab, Antoine Saab, Christo El Morr, Yahya El-Lahib & **Elie Salem Sokhn**
Critical Reviews in Microbiology, 20 Jun 2024.

Evaluation of synergistic/antagonistic antibacterial activities of fatty oils from apricot, date, grape, and black seeds

Farah M. Joujou, Nada El Darra, Hiba N. Rajha, **Elie Salem Sokhn** & Nisreen Alwan
Scientific Reports, (2024), 14:6532.

Knowledge, Attitude, and Practice of Hepatitis B Vaccination among Dentists in Lebanon

Ghassan Yared, **Elie S Sokhn**, Aynaa Al-Khatib, Cynthia Kassis, Ronald Younes
The Journal of Contemporary Dental Practice, Volume 25 (2), 2024.

Evaluation of the Phenolic Composition and Biological Activities of Six Aqueous Date (*Phoenix dactylifera* L.) Seed Extracts Originating from Different Countries: A Comparative Analysis

Aseel Swaidan, Bilal Azakir, Susanne Neugart, Naim Kattour, **Elie Salem Sokhn**, Tareq M. Osaili and Nada El Darra
Foods, 2023.

Prevalence of type 2 diabetes (T2D) in Lebanon: association with inflammatory and infectious clinical markers

Pia Chedid & **Elie Salem Sokhn**
BMC Public Health, Volume 23 (2523), 2023.

Extended spectrum beta-lactamase carriage among elderly residents of a long-term care facility in Beirut

Wafaa Moghnieh, Mahdi Fadlallah, Fatima Saleh, Saria El-Hariri, **Elie S Sokhn**
American Journal of Infection Control, 2023.

Epidemiology and resistance profiles of Enterobacterales in a tertiary care hospital in Lebanon: a 4-year retrospective study

Mahdi Fadlallah, **Elie Salem Sokhn**
Journal of Infection in Developing Countries, Volume 17 (7), 2023.

High frequency and molecular characterization of ESBL-producing Enterobacteriaceae isolated from wound infections in North Lebanon

Afnan M Hamwi, **Elie Salem-Sokhn**
Expert Review of Anti-infective Therapy, 2023.

Phenotypic and molecular characterization of ESBL producing *Escherichia coli* and *Klebsiella pneumoniae* among Lebanese patients

Saria A. El-Hariri, Fatima Saleh, Wafaa Moghnieh, and **Elie S. Sokhn**
JAC-Antimicrobial Resistance, 2023.

Updates on the Status of Carbapenem-Resistant Enterobacterales in Lebanon

Mahdi Fadlallah, Ahmad Salman, and **Elie Salem-Sokhn**
International Journal of Microbiology, 2023.

The impact of vaccination on the burden of invasive *pneumococcal* disease from a nationwide surveillance program in Lebanon: an unexpected increase in mortality driven by non-vaccine serotypes

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