

UNIVERSITY OF SHARJAH
COLLEGE OF PHARMACY

Ghalia KHODER
FACULTY MEMBER CREDENTIALS



	First Name	Ghalia
	Last Name	KHODER
	Job Title	Associate Professor
	Nationality	Lebanese
	Date of Birth	24/5/1982
	Gender	Female
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	Room	Office: M23-127, Lab: M32-DF27

EDUCATIONAL BACKGROUND

From Recent to Older

From		To		
MM	YY	MM	YY	
09	2005	12	2008	PhD in Biology/ Molecular Microbiology University of Poitiers, Faculty of Medicine and Pharmacy, France, 2008.
09	2004	08	2005	Master II in Physiology, Molecular and Cellular Biology University of Poitiers, Faculty of Fundamental and Applied Sciences, France, 2005.
09	2003	08	2004	Master I, Biology Lebanese University, Faculty of Sciences, Lebanon, 2004.
09	2000	08	2003	Bachelor, Biology Lebanese University, Faculty of Sciences, Lebanon, 2003.

PROFESSIONAL SUMMARY

From Recent to Older

From		To		Notes (e.g. To date, on leave, etc)
MM	YY	MM	YY	
06	2020	-	-	Associate Professor at the Department of Pharmaceutics and Pharmaceutical Technology, College of Pharmacy University of Sharjah, Sharjah, UAE To date
09	2015	06	2020	Assistant Professor at the Department of Pharmaceutics and Pharmaceutical Technology, College of Pharmacy University of Sharjah, Sharjah, UAE
09	2010	06	2015	Assistant Professor at the Department of Biomedical Sciences, College of Pharmacy Al Ain University of Science and Technology, Al Ain, UAE
02	2009	07	2010	Postdoctoral researcher at Faculty of Medicine and Health Sciences, United Arab Emirates University, Al Ain, UAE

PUBLICATIONS (SELECTED)

From Recent to Older

YY	
2024	<p>Weisy OKM, Kedia RA, Mahmoud I, Abu Odeh RO, Mussa BM, Abusnana S, Soliman SSM, Muhammad JS, Hamad M, Ghemrawi R, Khoder G*. Assessment of <i>Helicobacter pylori</i> cytotoxin-associated Gene A (Cag A) protein and its association with ferritin and vitamin B12 deficiencies among adult healthy asymptomatic residents in Sharjah, United Arab Emirates. Heliyon. 2024 (corresponding author).</p> <p>Hashem O, Zaib S, Zaraei SO, Javed H, Kedia RA, Anbar HS, Khan I, Ravi A, El-Gamal MI, Khoder G*. Design and discovery of urease and <i>Helicobacter pylori</i> inhibitors based on benzofuran/benzothiophene-sulfonate and sulfamate scaffolds for the treatment of ureolytic bacterial infections. Int J Biol Macromol. 2024 May</p> <p>Thomsen J, Abdulrazzaq NM, AlRand H; UAE AMR Surveillance Consortium; Everett DB, Senok A, Menezes GA, Ayoub Moubareck C. Epidemiology and antimicrobial resistance trends of <i>Acinetobacter</i> species in the United Arab Emirates: a retrospective analysis of 12 years of national AMR surveillance data. Front Public Health. 2024 Jan</p>

May 2024

[*Ghalia KHODER*]

Thomsen J, Abdulrazzaq NM, Oulhaj A, Nyasulu PS, Alatoon A, Denning DW, Al Dhaheri F; **UAE AMR Surveillance Consortium**; Menezes GA, Moubareck CA, Senok A, Everett DB. Emergence of highly resistant *Candida auris* in the United Arab Emirates: a retrospective analysis of evolving national trends. *Front Public Health*. 2024 Jan

2023

Thomsen J, Abdulrazzaq NM; **UAE AMR Surveillance Consortium**; Everett DB, Menezes GA, Senok A, Ayoub Moubareck C. Carbapenem resistant *Enterobacterales* in the United Arab Emirates: a retrospective analysis from 2010 to 2021. *Front Public Health*. 2023 Dec.

Thomsen J, Abdulrazzaq NM; **UAE AMR Surveillance Consortium**; Menezes GA, Ayoub Moubareck C, Everett DB, Senok A. Methicillin resistant *Staphylococcus aureus* in the United Arab Emirates: a 12-year retrospective analysis of evolving trends. *Front Public Health*. 2023.

Senok A, Thomsen J, Abdulrazzaq NM; **UAE AMR Surveillance Consortium**; Menezes GA, Ayoub Moubareck C, Everett D. Antimicrobial resistance in *Streptococcus pneumoniae*: a retrospective analysis of emerging trends in the United Arab Emirates from 2010 to 2021. *Front Public Health*. 2023.

Fayed B, Jagal J, Cagliani R, Kedia R.A., Elsherbeny A, Bayraktutan H., **Khoder G***, Haider M*. Co-administration of amoxicillin -loaded chitosan nanoparticle s and inulin : A novel strategy for mitigating antibiotic resistance and preserving microbiota balance in *Helicobacter pylori* treatment. *International Journal of Biological Macromolecules*. 2023

Osman RB, **Khoder G***, Fayed B, Kedia RA, Elkareimi Y, Alharbi N. Influence of Fabrication Technique on Adhesion and Biofilm Formation of *Candida albicans* to Conventional, Milled, and 3D-Printed Denture Base Resin Materials: A Comparative In Vitro Study. *Polymers*. 2023

Shahin AI, Zaib S, Zaraei SO, Kedia RA, Anbar HS, Younas MT, Al-Tel TH, **Khoder G***, El-Gamal MI. Design and synthesis of novel anti-urease imidazothiazole derivatives with promising antibacterial activity against *Helicobacter pylori*. *PLoS One*. 2023

Kayed K, Khoder G, Farhat J, Ghemrawi R. Mobile Phones: Reservoirs of Resistant Bacteria during the COVID-19 Pandemic in Abu Dhabi, United Arab Emirates. *Microorganisms*. 2023

Thomsen J, Abdulrazzaq NM, AlRand H; **UAE AMR Surveillance Consortium**. Surveillance of antimicrobial resistance in the United Arab Emirates: the early implementation phase. *Front Public Health*. 2023

Thomsen J, Abdulrazzak NM, AlRand H; **UAE AMR Surveillance Consortium**; Menezes GA, Moubareck CA, Everett DB, Senok A, Podbielski A. Epidemiology of vancomycin-resistant enterococci in the United Arab Emirates: a retrospective analysis of 12 years of national AMR surveillance data. *Front Public Health*. 2023

Thomsen J, Menezes GA, Abdulrazzaq NM; **UAE AMR Surveillance Consortium**; Moubareck CA, Senok A, Everett DB. Evolving trends among *Pseudomonas aeruginosa*: a 12-year retrospective study from the United Arab Emirates. *Front Public Health*. 2023

2022	Muhammad JS., Manzoor S., Cui Z., and Khoder G. DNA methylation-mediated overexpression of CXCL1 in Helicobacter pylori-induced gastric cancer: In silico and in vitro based identification of a potential biomarker for carcinogenesis. Int J Mol Sci. 2022
2021	Al Yassir F, Khoder G* , Al Menhali A, Sugathan S, Karam S. Modulation of stem cell progeny by probiotics during regeneration of gastric mucosal erosions. Biology. 2021. Khoder G* , Mina S. Muhammad JSP, Mahmoud I, Burucoa S. Helicobacter pylori Infection in Tripoli, North Lebanon: Assessment and Risk Factors. Biology. 2021. Almehdi AM, Khoder G , Alchakee AS, Alsayyid AT, Sarg NH, Soliman SSM. SARS-CoV-2 spike protein: pathogenesis, vaccines, and potential therapies. Infection. 2021. El-Huneidi W, Bajbouj K, Muhammad JS, Vinod A, Shafarin J, Khoder G. , Saleh MA, Taneera J, Abu-Gharbieh E. Carnosic Acid Induces Apoptosis and Inhibits Akt/mTOR Signaling in Human Gastric Cancer Cell Lines. Pharmaceuticals. 2021.
2020	Touil H., Boucherit K., Boucherit-Otmani Z., Khoder G. , Madkour M. and Soliman S. Optimum Inhibition of Amphotericin-B-Resistant Candida albicans Strain in Single- and Mixed-Species Biofilms by Candida and Non-Candida Terpenoids. Biomolecules. 2020. Soliman S, Abouleish M., Khoder G. , Khalida B., Husama H., Ameena K., Husseina R., Abou-Hashem M. The scientific basis of the antibacterial traditional use of Calligonum comosum in UAE. Journal of Herbal Medicine. 2020.
2019	Soliman S, Alnajdy D, El-keblawy A, Mosa K, Khoder G , Noreddin A. Plant's Natural Products as Alternative Promising Anti-Candida drugs. Pharmacognosy reviews. 2017. Muhammad JS, Eladl MA, Khoder G. Helicobacter pylori-induced DNA Methylation as an Epigenetic Modulator of Gastric Cancer: Recent Outcomes and Future Direction. Pathogens. 2019 Khoder G. , Muhammad JSP, Mahmoud I, Soliman S, Burucoa S. Pathogens. Prevalence of Helicobacter pylori and its associated factors among healthy asymptomatic residents in the United Arab Emirates. 2019. Dash N, Khoder G , Nada A, AL Bataineh M. Exploring the Impact of Helicobacter pylori on Gut Microbiome Composition. PLoS One. 2019. Khoder G. , Al Yassir F, Al Menhali A, Sugathan S, Karam S. Probiotics Upregulate Trefoil Factors and Downregulate Pepsinogen in the Mouse Stomach. International Journal of Molecular Science. 2019

PROFESSIONAL MEMBERSHIPS

YY	Name of Organization / Society
2023-to date	Member in the UAE AMR Surveillance Consortium
2018-to date	Member in the infectious disease and anti-infective therapy research group at UOS
2015-to date	Member of the American Association of Microbiology
2015-to date	Member of French society for electrophoresis and proteomics
2015-to date	Member the International scientific association for probiotics and prebiotics

RESERCH INTERESTS

Microbiology (*Helicobacter pylori*, probiotics, antibiotic resistance, epidemiology of infectious diseases). Proteomics (SELDI-TOF-MS, Protein Chip, SDS-PAGE, and 2D-PAGE), Gastroenterology: Gastric epithelial cell, Gastric stem cell, Gastric ulcer, and Gastric Cancer.

RELEVANT GRANTS

1. Competitive research grant_University of Sharjah (120 000 AED), 2024. Project title: Deciphering the Cellular and Molecular Effects of Newly Discovered SHP2 Inhibitor Compounds on the Downstream Targets of SHP2 Tyrosine Phosphatase in Gastric Cancer and *Helicobacter pylori* Induced Gastric Infection
2. Competitive research grant_University of Sharjah (108 000 AED), 2022. Project title: Influence of Denture Base Fabrication Technique on Microbial and Fungal Adhesion: An in-vitro study.
3. Targeted research grant_ Univeristy of Sharjah (188 000 AED), 2018. Project title: Evaluation of the antibiotic resistance of *Helicobacter pylori* : a class 1 carcinogen for a better prevention of gastric cancer in United Arab Emirates.
4. Competitive research grant_ Univeristy of Sharjah (80 000 AED), 2016. Project title: Molecular and Cellular impact of probiotics on gastric ulcer.
5. Research seed grant_ Univeristy of Sharjah (39 000 AED), 2016. Project title: *H. pylori* infection in UAE: Prevalence and risk factors.
6. Boehringer Ingelheim / University of Sharjah research grant (11 000 AED), 2016. Project title: Prevalence and relationship between H. pylori infection and diabetes in the United Arab Emirates population.

STUDENTS SUPERVISION

1. Om Kolthhom Weissy, Master Student, Pharmacy College, University of Sharjah

Master thesis Title: Assessment of *Helicobacter pylori* Cytotoxin-Associated Gene (Cag A) protein and its association with ferritin and vitamin B12 deficiencies among adult healthy asymptomatic residents in Sharjah, United Arab Emirates

2. Christina Almarmouri, Master Student, Pharmacy College, University of Sharjah

Master thesis Title: Novel Anti-Urease Sulfamate Derivatives as Promising Agents Against *Helicobacter pylori*