Mohamed Salim Chakkour

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EDUCATION	
Wayne State University – Detroit. MI.	Aug. 2022 to present.
• PhD candidate in Biological Sciences and Urban Sustainability	
• GPA: 4/4	
American University of Beirut (AUB) - Beirut, Lebanon	Sept 2015 to May 2018
• Masters in General Biology MS.	
• GPA: 3.8/4 Lebanese University Faculty of Sciences - Beirut, Lebanon	Oct 2014 to June 2015
First year Master's degree in Animal Biology (M1)	Oct 2014 to Suite 2013
 Graduated in June/2015, average: Good 	
Lebanese University Faculty of Sciences - Beirut, Lebanon	Oct 2011 to June 2014
Bachelor degree in Biology	
WORK EXPERIENCE	
Wayne State University	Aug 2022 to present.
Position Held: Graduate Research Assistant and Teaching As	ssistant
Teaching biology labs: BIO1511 & BIO4120	
• Research assistant in Greenberg's lab (Metabolism of Lipids)), currently studying "Inositol
Synthesis in mammalian cells."	
• Contributed to an article and wrote a review. Both are on the	
 American University of Beirut (AUB) - Beirut, Lebanon Position Held: Research Assistant and Lab Instructor 	Sept 2018 to May 2022
 Teaching biology labs; Biol 201 and Biol 202 (Introductory B) 	iology courses basic biology
concepts and basic laboratory techniques)	lology courses – basic biology
 Assisting Pr. Sawsan Kreydiyyeh (Professor in cell signaling and same a	nd animal physiology) in biomedical
research.	
Amilieh High School - Beirut, Lebanon	Sept 2018 to June 2022
 Position Held: Lab Manager and "Seminar and Scientific Researcher 	arch" course teacher.
Biology teacher for Grades 7, 8, 9, 10, 11 (Scien	
• Designing and preparing experiments for high school students in	
courses and founder and teacher of a course entitled "Seminar a	and Scientific Research".
St Severius College - Beirut, Lebanon	Feb 2018 to June 2021
Position Held: Biology Teacher for Grades 4, 5, 6, 9, 10, and 12	
American University of Beirut (AUB) - Beirut, Lebanon	Sept 2015 to 05/2018
Position Held: Graduate assistant and Lab Instructor	
 Assisting Pr. Sawsan Kreydiyyeh (Professor in cell signaling and seven an	
• Teaching biology labs; Biol 201 and Biol 202 (Introductory B	iology courses – basic biology
concepts and basic laboratory techniques)	
• Working on my thesis research entitled: "Effect of S1P through	
Na+/K+ ATPase activity" under the supervision of Pr. Kreydiy Academic Center private tutoring institute - Beirut, Lebanon	Feb 2014 to June 2022
Sience Coordinator	reb 2014 to Suite 2022
 Biology, Chemistry teacher for Grade 10 and above. 	
brotogy, chemistry teacher for character and above.	
PUBLICATIONS	
1. Chakkour M, Salami A, Olleik D, Kamal I, Noureddine FY, Roz AE, Ghssein G. R	isk Markers of COVID-19, a Study
from South-Lebanon. COVID. 2022; 2(7):867-876. https://doi.org/10.3390/covid2070	0063.
2. Chakkour, M. & Noureddine, F. Y., et al. (2021). The emergence of SARS-CoV	-2 variant(s) and its impact on the
prevalence of COVID-19 cases in Nabatieh region, Lebanon. https://doi.org/10.1101	
3. Hodeify, R., Chakkour, M., Rida, R., & amp; Kreydiyyeh, S. (2021). PGE2 upregulate	es The Na+/k+ Atpase In hepg2
cells Via EP4 receptors and intracellular calcium. PLOS ONE, 16(1). doi:10.1371/jo	
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4. Moussawi, L. E., Chakkour, M., & Kreydiyyeh, S. (2019). The epinephrine-induced	PGE2 reduces Na /K ATPase
activity in Caco-2 cells via PKC, NF-KB and NO. Plos One, 14(8). doi:10.1371/journa	al.pone.0220987

 Chakkour M, Kreydiyyeh S. FTY720P Upregulates the Na+/K+ ATPase in HepG2 Cells by Activating S1PR3 and Inducing PGE2 Release. Cell Physiol Biochem. 2019;53(3):518-531. doi: 10.33594/000000155. PMID: 31502430.

- 6. Salami, A., Fakih, H., Chakkour, M., Salloum, L., Bahmad, H. F., & Ghssein, G. (2019). Prevalence, risk factors and seasonal variations of different Enteropathogens in Lebanese hospitalized children with acute gastroenteritis. BMC Pediatrics, 19(1). doi:10.1186/s12887-019-1513-8
- 7. El Moussawi L, Chakkour M, Kreydiyyeh SI. Epinephrine modulates Na+/K+ ATPase activity in Caco-2 cells via Src, p38MAPK, ERK and PGE2. PLoS One. 2018 Feb 21;13(2):e0193139. doi: 10.1371
- Mohamed Chakkour, and Sawsan Kreydiyyeh. FTY720-P Activates Hepatic Na+/K+ ATPase via S1PR3, PKC and PGE2. The FASEB journal. Volume 32, Issue 1_supplement 01 Apr 2018.
- 9. Mohamed Chakkour and Sawsan Kreydiyyeh. Effect of S1P through its analogue FTY720-P on hepatic Na⁺/K⁺ ATPase activity. 23rd International Scientific Conference LAAS Entitled: « *Research and Science in the Service of Humanity* ». 06th & 07th of April 2017, Lebanese University (UL)-Pierre Gemayel Campus Fanar, Page: 83.
- **10.** Writer at Annahar Newspaper Health Section: collaborate with journalists in writing articles and filming short videos to explain scientific articles and biomedical breakthrough technologies.

AWARDS AND HONORS

First Place - Annual Fund It Forward Student Video Challenge - Graduate Level (December 2023)

- Awarded first place in a competition highlighting the importance of my research and advocating its funding by Congress.
- The competition is organized by The Science Coalition, a nonprofit, nonpartisan organization.
- Created a compelling video titled "Inositol and Bipolar Disorder" emphasizing the significance of the research and its potential impact.

CONFERENCES

- Mohamed Chakkour and Sawsan Kreydiyyeh. Effect of S1P through its analogue FTY720-P on hepatic Na⁺/K⁺ ATPase activity. 23rd International Scientific Conference LAAS Entitled: «*Research and Science in the Service of Humanity* ». 06th & 07th of April 2017, Lebanese University (UL)-Pierre Gemayel Campus Fanar, Page: 83. (Poster presentation).
- Mohamed Chakkour, and Sawsan Kreydiyyeh. FTY720-P Activates Hepatic Na+/K+ ATPase via S1PR3, PKC and PGE2. The FASEB journal. Volume 32, Issue 1_supplement 01 Apr 2018. Submitted an abstract to Experimental Biology 2018 international conference held in San Diego Convention Center April 21-25, 2018.
- Oral presentation at "The 1st Biomedical Sciences Seminars" under the theme "Advances in Oncology", at the Lebanese University Faculty of Pharmacy from the 19th of April till the 7th of June 2018.

ACCOMPLISHED PROJECTS

- Title: Effect of S1P through its analogue FTY720-P on hepatic Na+/K+ ATPase activity. (Thesis)
- Title: Effect of Epinephrine on colon Na+/K+ ATPase activity.
- Title: Haplotypes' and SNPs' roles in the genetics of population (Genetics of Population course) Supervisor: Prof. Fahed Nasser (Professor in "Molecular Genetics and Functional Genetics" - Department of Biology -

Faculty of Science-I - Lebanese University)

VOLUNTEERING

Member of Kafarmelki's Muni	icipality committee to apply measures to combat COVID 19	Feb 2020- May 2021
•	Cooperate with the village officials to take measures concerning the sprea	d of COVID-19
•	Help the village officials apply conditional regulations to prevent the spre	ad of the disease.
Chief of Amilieh Scout Associa	tion - Beirut, Lebanon	2005 - 2022
•	Performed different activities (Educational, Entertaining, Environmental, a and teenagers.	and National) for children
•	Association that enhanced my time-management, problem-solving, and tea	m-coordination skills
Awareness project with the Le	banese Association for NGOs Development (LAND) in cooperation with	Mercy Corps.
		Jan – Aug / 2016
•	Participated as a member with LAND in a project to raise awarenes Violence	s agaisnt Gender Based
UNICEF Awareness event in c	ooperation with Balamand University - Beirut, Lebanon	Sep 2015 – Feb 2017
•	Participated in an awareness event entitled "Awareness of the danger bombs"	rs of mines and cluster
SUMMARY SKILLS		

COMPUTER SKILLS:

	R-Studio for statistical analysis, Graph-pad, Image Lab, use of different Biology Databases (Pub Med, NCBI,
	PharmGKB).
	➢ Word, Excel, and PowerPoint.
	Adobe Photoshop and illustrator.
LANGUAGES:	
	Fluent in English and Arabic (Reading, Writing, Speaking, and Typing).
SOFT SKILLS:	
	Leadership communication team-management time management problem solving accurate hard-worker

Leadership, communication, team-management, time management, problem solving, accurate hard-worker, ۶ scientific article analysis, writing scientific mini-reviews, grant proposals, and scientific articles.

ACTIVITIES_ Scouts:

Amilieh Scout Association in Lebanon and Scout Federation Lebanon. **Hobbies:** Swimming, Walking, Reading Scientific Articles and Travelling.

REFERENCES

Available upon request