

Al-Bara' Al-Nsour

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EDUCATION

Carnegie Mellon University
Bachelor of Science in Computer Science

Graduation: **June 2030**

Honors:
– John Locke Institute Global Essay Competition – Finalist, Recognition Award.

RESEARCH

In Silico Design and Structural Characterization of a Bispecific TanCAR Targeting IL-13Ra2 and PD-L1 for Glioblastoma Therapy | AlphaFold2, ChimeraX, PyDockWeb

Research Scholar - Lumiere Education

- Computationally designed a bispecific CAR-T construct targeting IL-13Ra2 and PD-L1
- Performed docking simulations and AlphaFold modeling to validate binding and structure
- Achieved >70 confidence across structured regions of the complete construct
- Manuscript prepared for submission.
- Abstract: <https://bit.ly/tan-car>
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Evaluation of the Antiproliferative Activity of Polyfloral Jordanian Bee Pollen Grains

Student Researcher and Author - University of Jordan & The Jubilee Institute - Thesis Project

- Conducted MTT Assay on HepG-2 and Vero cells using bee pollen methanolic extract
- Identified dose-dependent inhibition of HepG-2 cells (IC₅₀ = 22.49 ± 0.01 mg/mL)
- Manuscript presented at the Jubilee School's Science Fair
- Abstract: <https://bit.ly/Bee-Pollen-Grains-Abstract>

Envisioning the Perception and Attitude of Jordanian Pharmacists Toward Smart City Technology

Co-Author - Applied Science Private University

- Analyzed perceptions of 523 Jordanian pharmacists on the implementation of smart-city healthcare systems in Jordan
- Presented at the International Conference of Integrative Approaches to Pharmacy 2024
- Manuscript currently under peer-review in Scopus journal
- Abstract: <https://bit.ly/Smart-City-Abstract>

EXPERIENCE

Supermarket Clerk

Al-Shawareb Mart, Amman, Jordan

June 2024 – September 2024

- Worked full-time (42 hrs/week) to contribute to household income during summer
- Managed inventory, labeling, assisted customers, and bagged groceries

Research Intern

Aurum Biotech, Amman, Jordan

January 2025– January 2025

- Learned the essential protocols for animal cell culture (maintaining cell cultures, cell thawing and freezing, Trypsinizing cells, counting cells, and viability staining)
- Learned how to extract protein from cancer cells using RIPA buffer
- Learned proper MTT assay techniques

LEADERSHIP & ACTIVITIES

Volunteer – Zaha Cultural Center, Raneen Initiative | 130 community service hours serving low-income children and producing audio books for the visually impaired

Tutor – Peer-tutored mathematics and computer science

Deputy Secretary General – Jubilee Council of Foreign Affairs | Organized a 2-day conference simulating think tanks

Media Advisor – Athena Model United Nations | Supervised and advised media team on photography and social media marketing and presence

SPORTS

- **Varsity Soccer** – The Jubilee School | Trained and competed nationally at school level as a goalkeeper
 - **Varsity Track and Field** – The Jubilee School | Trained and competed nationally at school level. Won a silver medal in King Abdullah II Award for Physical Fitness
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