

# Lamis Naddaf

Ph.D

## Jackson Laboratory for Genomic Medicine

### Experience

**2023-present**

Postdoctorate fellow

Jackson Laboratory for Genomic Medicine, USA

Sheng Li Lab

“Exploring the age-related epigenetic role in AML progression”

### Education

**2016-2023**

Medical School of Hebrew University, Israel

PhD, Developmental Biology and Cancer Research Department (GPA 92%)

Thesis: “Whole Coding Genome, Inter-Clade Comparison to Predict Global Cancer-Protecting Variants”

Advisors: Yuval Tabach and Rami Aqeilan

**2009-2014**

Birzeit University, West Bank

M.Sc., Department of Physics (GPA 90%)

Thesis: “Effects of Intracellular Crowded Environment on Protein-Protein Interactions”

Advisor: Abdallah Sayyed-Ahmed

**2004-2008**

Birzeit University, West Bank

B.Sc., Department of Physics (GPA 91%)

Final year project: “Ising model and phase transition”

Advisor: Henry Jaqaman

### Teaching Experience

**2014-2015**

Instructor: Department of Physics, Birzeit University, West Bank

**2008-2014**

Research and teaching assistant: Department of Physics, Birzeit University, West Bank

### Achievements and Awards

**2019**

Erasmus+ Scholarship for Radboud University Summer School, Nijmegen, Netherlands

**2018**

Best Poster Prize, The 7th Graduate Genomics, Genetics and Evolution Meeting

**2016**

Best 3-minute talk prize, Retreat of the Developmental and Cancer Research Department.

**2015**

BIRAX Scholarship for PhD

**2014**

Best Thesis Prize, The Fourth Palestinian Conference on Modern Trends in Mathematics and Physics PCMTMP-4

**2009-2014** Master scholarship, Birzeit University, West Bank  
**2004-2008** Dean's List, Birzeit University, West Bank

## Research Skills

Programming: Linux, R, FORTRAN, bash, ...  
Bioinformatics and Machine learning  
Comparative genomics  
Molecular and Brownian dynamics simulations

## Patent

**Naddaf L** and **Tabach Y**. 2021. Cancer Protecting Genes. U.S. Patent 63269827, filed Mar 22, 2021. Patent pending.

## Conference Presentations

- *Poster: **Naddaf L**, **Ruppin E** and **Tabach Y** "Cross-species identification of cancer-resistance associated genes uncovers their relevance to human cancer risk," Israeli Society for Evolutionary Biology Conference, Weizmann Institute of Science, Israel, 2022*
- *Poster: **Naddaf L** and **Tabach Y** "Comparative genomics to predict cancer protecting alleles," Basel Computational Biology Conference, Congress Center Basel, Switzerland, 2021*
- *Poster (**Best Poster Prize**): **Naddaf L** and **Tabach Y** "A comparative genomics approach to predict cancer protecting alleles," the 7th Graduate Genomics, Genetics and Evolution Meeting, Hebrew University, Israel, 2018*
- *Poster: **Naddaf L**, **Zuk O** and **Tabach Y** "Intra-sequence epistasis compensates for pathogenic variations," The genetics society of Israel annual meeting - Frontiers in genetics XI, Tel Aviv University, Israel, 2018*
- *3-minute talk (**Best 3-minute talk prize**): **Naddaf L** and **Tabach Y** "A comparative genomics approach to predict cancer resistance mechanisms in cancer resistance rodents", Retreat of the developmental and cancer research department, Ramot Resort Hotel, Israel, 2016.*
- *15-minute talk: **Naddaf L** and **Sayyed Ahmad A** "Effects of Intracellular Crowded Environment on Biochemical Reactions", The Fourth Palestinian Conference on Modern Trends in Mathematics and Physics PCMTMP-4, al-Quds University, West Bank, 2014.*
- *Poster (**Best Poster Prize**): **Naddaf L** and **Sayyed Ahmad A** "Effects of Intracellular Crowded Environment on FtsZ dimerization," Palestinian conference for graduate student research in natural and applied sciences, Birzeit University, West Bank, 2014.*

## Summer Schools

- AION Labs Boot Camp: Artificial Intelligence for Design and Optimization of Antibodies for Targeted Therapies, Rehovot, Israel, 2022
- Oxford Machine Learning Summer School, online, 2021
- An introduction to data visualization (R), Radboud University, 2019

## Publications

Nair, N.U., Cheng, K., **Naddaf, L.**, Sharon, E., Pal, L.R., Rajagopal, P.S., Unterman, I., Aldape, K., Hannenhalli, S., Day, C.P. and Tabach, Y.. "Cross-species identification of cancer-resistance associated genes uncovers their relevance to human cancer risk". *ScienceAdvances*, 2022. (**First Co-author**)

Lena Qawasmi, Maya Braun, Irene Guberman, Emiliano Cohen, **Lamis Naddaf**, Anna Mellul, Olli Matilainen, Danielle Share, Doron Stupp, Haya Chahine, Ehud Cohen, Susana M. D. A. Garcia & Yuval Tabach, " *Expanded CUG repeats trigger disease phenotype and expression changes through the RNAi machinery in C. elegans*". *Journal of Molecular Biology* ,2019

**Lamis Naddaf** and Abdallah Sayyed Ahmed, "*Intracellular crowding effects on the self-association of the bacterial cell division protein FtsZ.*" *Archives of biochemistry and biophysics*, 2014

## References

Prof. Sheng Li, Jackson Laboratory. Sheng.Li@jax.org

Prof. Yuval Tabach, Hebrew University. tabachy@gmail.com

Prof. Rami Aqeilan, Hebrew University. ramiq@ekmd.huji.ac.il

Prof. Abdallah Sayyed Ahmed, Birzeit University. asayyeda@birzeit.edu

Prof. Eytan Ruppin, Cancer Data Science Lab (CDSL), NCI/NIH. eyruppin@gmail.com