

# Nour Aljouda

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Department of Medicine and Health Sciences  
An-Najah national university  
Nablus  
Palestine

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Nablus, West bank  
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## EDUCATION:

### **The University of Tennessee Health Science Center**

Ph.D. in Biomedical Sciences Program  
Genetics, Genomics and Informatics (GGI) track

**Dissertation Project:** TCF4 Is a Key Mediator of Cell Identity and Oncogenesis in Neuroblastoma  
GPA: 3.9

Memphis, TN.  
2018-2023

### **University of Missouri-Kansas City**

Graduate Student, Pharmacology & Toxicology department

**Dissertation Project:** Effect of Cytochrome P450 allelic variants on Methamphetamine metabolism and SIV/SHIV replication and disease progression in non-human primate model of HIV/AIDS. GPA:3.85

Kansas, MO.  
Jan/2015-Dec/2017

### **An-najah National University**

Bachelor of Pharmacy  
GPA:3.8

Nablus, West Bank  
2006-2011

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## CERTIFICATION

Licensed pharmacists

May 2011

## WORK EXPERIENCE

Hospital Pharmacist at Nablus Specialty Hospital

Jun-2011– July-2012

University of Missouri-Kansas City  
Graduate Student (Teacher assistant)

Kansas, MO  
Jan-2015 – Dec-2017

The University of Tennessee Health Science Center  
Graduate Student

Memphis, TN.  
2018- 2023

An-Najah national University  
Assistant professor

Nablus, Palestine  
2024

## RESEARCH EXPERIENCE

### ❖ **Pharmacology and toxicology Lab. Dr. Anil Kumar's lab. (UMKC)**

- Experience in cell culturing of SVG astrocytes, SH-SY5Y and Vero-E6 cell lines.
- Extraction of mRNA, DNA and protein.
- Gene expression analysis using qRT-PCR

- Western Blot analysis
- Viral load determination in monkey's plasma and CSF
- Cell transfection using Lipofectamine and Electroporation

❖ **Clinical pharmacology lab at Children's mercy hospital. Dr. Andrea Gaedigk (UMKC)**

Gene sequencing (Sanger): Sequencing of Rhesus Macaque CYP2D17 and CYP2D44 for the identification of single nucleotide polymorphisms (SNPs).

❖ **Pharmaceutical sciences lab. Dr. William Gutheil. UMKC**

- Extraction of microsomes from liver samples and performing enzymatic assays
- Cytotoxic Activity of Anti-cancer drugs
- Liquid Chromatography/Mass Spectrometry (LC/MS)

❖ **Cancer genetics lab. Dr. Kevin Freeman. UTHSC**

- Experience in cell culturing of human neuroblastoma cell lines (Kelly, CHP212, SK-N-AS) and mouse neural crest cells (NCCs)
- Cloning the shRNA sequences into the pLKO lentiviral vector
- Generating lentivirus particles for shRNA expression, miRNA expression and gene expression.
- Generation of Stable Human Cell Lines with Doxycycline-inducible (Tet-on) shRNA
- Experience in miniprep and maxiprep
- Cell transduction using second generation Lentivirus system    Real-time quantitative PCR.
- Western blot analysis
- CyQUANT Cell Proliferation Assays
- Isolating neural crest cells (NCCs) from mouse embryos.
- cell cycle assay
- Annexin V/PI flow cytometry assay
- Colony formation assays
- RNA-Sequencing
- Chromatin immunoprecipitation ChIP-Seq
- Colony formation in soft agar
- Immunoprecipitation/Western blotting (IP-WB)

## AWARDS AND HONORS

- |   |           |
|---|-----------|
| ➤ Women's Council Graduate Assistant Fund Award                     | 2015-2016 |
| ➤ Thomas D. Ross Memorial Graduate Scholarship                      | 2016-2017 |
| ➤ Best graduate student in Pharmacology                             | 2016-2017 |
| ➤ Women's Council Graduate Assistant Fund Award                     | 2016-2017 |
| ➤ Thomas D. Ross Memorial Graduate Scholarship                      | 2017-2018 |
| ➤ Women's Council Graduate Assistant Fund Award                     | 2017-2018 |
| ➤ 1st place for the top presentation at Graduate Research Day UTHSC | 2020      |
| ➤ Imhotep Inductees award   | 2021      |
| ➤ Submitted F31 and scored 26 percentiles                           | 2021      |
| ➤ Best graduate student (Genetics department)                       | 2022      |

## TEACHING EXPERIENCE

### University of Missouri-Kansas City

Kansas, MO.

Teaching Assistant, Pharmacology I, II and III courses  
Teaching Assistant, Toxicology course  
Teaching Assistant, Pharmacy practice course

### An-Najah national university

Nablus, Palestine.  
2024

Assistant professor, Clinical pharmacology for nursing II  
Assistant professor, Molecular biochemistry lab

## ARTICLES

- Silverstein PS, **Aljouda NA**, Kumar A. Recent developments in vertical transmission of ZIKA virus. *Oncotarget*. 2016 Sep 27; 7(39):62797-62798.
- Alleboina S, **Aljouda N**, Miller M, Freeman KW. Therapeutically targeting oncogenic CRCs facilitates induced differentiation of NB by RA and the BET bromodomain inhibitor. *Mol Ther Oncolytics*. 2021 Sep 25;23:181-191.
- **Aljouda NA**, Shrestha D, DeVaux C, Olsen RR, Alleboina S, Walker M, Cheng Y, Freeman KW. Transcription factor 4 is a key mediator of oncogenesis in neuroblastoma by promoting MYC activity. *Mol Oncol*. 2024 Aug 9. doi: 10.1002/1878-0261.13714. Epub ahead of print. PMID: 39119816.

## PRESENTATIONS:

### Children's mercy hospital

Oct -2017

Effect of Cytochrome P450 allelic variants on Methamphetamine metabolism and SIV/SHIV replication and disease progression in non-human primate model of HIV/AIDS.

### University of Missouri-Kansas City

Nov-2017

Effect of Cytochrome P450 allelic variants on Methamphetamine metabolism and SIV/SHIV replication and disease progression in non-human primate model of HIV/AIDS.

### The University of Tennessee Health Science Center

June-2020 The

transcriptional regulators of neural crest cell fate as therapeutic target in Neuroblastoma

### Graduate Research day (UTHSC).

April- 2021

Defining TCF4's role as a novel key regulator in mediating neuroblastoma cell identity

### Basic and translational Cancer Research in progress (UTHSC).

May-2021

Defining TCF4's role as a novel key regulator in mediating neuroblastoma cell identity

### JCA-AACR Precision Cancer Medicine International Conference (AACR) talk.

Sep-2021

Defining TCF4's role as a novel key regulator in mediating neuroblastoma cell identity

### International Experimental Biology and Medicine Conference (IEBMC)

Oct-2022

Defining TCF4's role as a novel key regulator in mediating neuroblastoma cell identity

### Quarterly scientific meeting (UTHSC).

Feb-2022

Defining TCF4's role as a novel key regulator in mediating neuroblastoma cell identity

**Basic and translational Cancer Research in progress (UTHSC).**

May-2022

Defining TCF4's role as a novel key regulator in mediating neuroblastoma cell identity

**Dissertation defense**

Feb-2023

TCF4 Is a Key Mediator of Cell Identity and Oncogenesis in Neuroblastoma

**STUDENT ORGANIZATION****University of Missouri-Kansas City**

Kansas, MO.

HMOC member

Jun-2016 – Jun-2017

**The University of Tennessee Health Science Center**

Memphis, TN.

- Graduate Student Executive Council (GSEC) Representative

Aug-2019 – May-2020

As a GSEC representative I was responsible for communicating between GSEC and the students in my track as well as involved in organizing GSEC events.

- GSEC Honor Council President

Jun-2020 – 2022

As an Honor Council President my mission is to empower the student body with a voice that will stand up for their rights. Supporting all students with integrity and respect, and giving everyone equal opportunities to succeed despite gender, nationality, religion or belief.

- UTHSC Toastmaster club vice President Education

2021-2022

**SOFTWARE SKILLS:**

MS office, EndNote, Microarray Analysis Pathway, GraphPad prism, Illustrator.