

## Dr. Tahrir Alenezi

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### Education

#### UNIVERSITY OF ARKANSES

PhD, Cell and Molecular. GPA 3.9

Fayetteville, AR

Dissertation: Cloning and Expressing Microbial Bile Acid Metabolizing Enzymes to Reduce *Clostridium Perfringens* Infection

Sep, 2019-May, 2024

#### LONG ISLAND UNIVERSITY

Master, Medical Microbiology. GPA 3.9

Brooklyn, NY

Thesis: Antimicrobial Activity of *Commiphora Molmol* (*myrrha*)

Jul 15, 2019

#### NORTHERN BORDER UNIVERSITY

Bachelor, Medical Lab Technology. GPA 3.4

Arar, Saudi Arabia

Relevant Coursework: Second class honor

Jun 25, 2013

### Experience

#### UNIVERSITY OF ARKANSES

##### PhD Research

- Discovering antimicrobial free alternatives to control pathogens through bile acids and microbiota metabolites.
- Worked on Gene editing.

##### UREC Sports Official

Jan- May 2022

##### UREC Sports Supervisor

May 2022- Jan 2023

##### Teaching Assistant

Jan 2023-Dec 2023

#### LONG ISLAND UNIVERSITY BROOKLYN

##### Lab Assistant

- Taught student basic lab works such as how to prepare the media for different organisms, and safety protocols.
- Worked on PCR, gel electrophoresis, transformation, and transduction in bacteria.

#### NORTHERN BORDER UNIVERSITY

Arar, Saudi Arabia

##### Teaching Assistant

2014 – 2015

- Taught several undergraduate courses.
- Prepared all associated class, exam, and project material.
- Organized workshops on infectious diseases, blood donation and hygiene education.

#### ARAR CENTRAL HOSPITAL

Arar, Saudi Arabia

##### Lab Technician

2013 – 2014

- Worked on several departments such as blood bank, hematology, histology, serology, bacteriology, and infectious disease.
- Learned how to deal with patients and how to collect blood samples and other samples.

### Skills & Interests

**Computational skills:** Microsoft Office, Math Studio, and SnapGene.

**Language:** Arabic (native fluency), English.

**Molecular biology skills:** Cloning, PCR, CBC, Gene editing, gram stain and other microbiology stains, gel electrophoresis, and genomic isolation.

**life skills:** Time management, teamwork and collaboration, leadership, hard-working and decision-making.

**Farm experience:** Familiar with working and conducting experiments in mice.

**Interests:** Microbiology, technology, hiking, and cooking.

### Scientific Publications

1. Recombinant Bile Salt Hydrolase Enhances the Inhibition Efficiency of Taurodeoxycholic Acid against *Clostridium perfringens* Virulence. **Tahrir Alenezi**, Bilal Alrubaye, Ying Fu, Janashrit Shrestha, Samar Algehani, Hong Wang, Rohana Liyanage, Xiaolun Sun. *Pathogens*. 2024.
2. Potent Bile Acid Microbial Metabolites Modulate *Clostridium perfringens* Virulence. **Tahrir Alenezi**, Ying Fu, Bilal Alrubaye, Thamer Alanazi, Ayidh Almansour, Hong Wang, Xiaolun Sun. *Pathogens*. 2023.
3. *Clostridium perfringens*-Induced Necrotic Diseases: An Overview. Ying Fu, **Tahrir Alenezi**, and Xiaolun Sun. *Immuno*. 2022.
4. Vaccines Using *Clostridium perfringens* Sporulation Proteins Reduce Necrotic Enteritis in Chickens. Ying Fu, Mohit Bansal, **Tahrir Alenezi**, Ayidh Almansour, Hong Wang, and Xiaolun Sun. *Microorganisms*. 2022.
5. The Role of Immune Response and Microbiota on Campylobacteriosis. Ying Fu, **Tahrir Alenezi**, Ayidh Almansour, Hong Wang, Zhenquan Jia and Xiaolun Sun. *Campylobacter-IntechOpen*. 2021.
6. Specific Secondary Bile Acids Control Chicken Necrotic Enteritis. Mohit Bansal, **Tahrir Alenezi**, Ying Fu, Ayidh Almansour, Hong Wang, Anamika Gupta, Rohana Liyanage, Danielle B Graham, Billy M Hargis, Xiaolun Sun. *Pathogens*. 2021.
7. Microbiota from Specific Pathogen-Free Mice Reduces *Campylobacter jejuni* Chicken Colonization. Ayidh Almansour, Ying Fu, **Tahrir Alenezi**, Mohit Bansal, Bilal Alrubaye, Hong Wang, and Xiaolun Sun. *Pathogens*. 2021.
8. Antibiotic in myrrh from *Commiphora molmol* preferentially kills non growing bacteria. Mrinal K Bhattacharjee and **Tahrir Alenezi**. *Future science*. 2020.
9. Microbiota attenuates chicken transmission-exacerbated campylobacteriosis in II10-/- mice. Ying Fu, Ayidh Almansour, Mohit Bansal, **Tahrir Alenezi**, Bilal Alrubaye, Hong Wang & Xiaolun Sun. *Scientific Reports*. 2020.

### Certificate & Meeting Attended

1. Conference of Research Workers in Animal Diseases- 2019, 2022 & 2023
2. Poultry Science Association-2021, 2022 & 2023.
3. American Red Cross adult and pediatric first aid from American Red Cross-2022.
4. Arkansas commission on child abuse and domestic violence-2022.
5. Professional Development Certificate Program (PDCO)-2021.
6. CEO Global USA Developing Servant Leaders of Integrity-2020.
7. Certificate as Supervising Non-Production Chemical Laboratories from NYC Fire Department-2018.
8. CPR First-Aid Certification from the Central Hospital at Arar-2015.