

LO'AI ESSAM ALANAGREH

Assistant Professor of Molecular Microbiology

Hashemite University, Zarqa, Jordan.

Department of Medical Laboratory Sciences

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SUMMARY

Dedicated resourceful academian and researcher. Offering two years of teaching experience and many years of research experience with knowledge across the domains of microbiology, microbial genomics, microbial evolution, epidemiology and molecular biology.

EDUCATION

PhD. Biological Sciences (Microbial Genomics)

University of Tulsa, Tulsa, OK, USA

Fall 2012 – Spring 2017

M.Sc. Biological Sciences (Microbiology)

Yarmouk University, Irbid, Jordan

Spring 2005 – Summer 2008

B.Sc. Biological Sciences

Yarmouk University, Irbid, Jordan

Fall 2000 – Spring 2004

PROFESSIONAL EXPERIENCE

Hashemite University, Zarqa, Jordan

Assistant Professor, Fall 2017 – present

- Responsible of teaching courses in medical microbiology, mycology, virology and epidemiology

University of Tulsa, Tulsa, OK, USA

Graduate Teaching Assistant, Fall 2012 – Spring 2017

- Assist in teaching different courses and laboratories including virology, general microbiology lab, cell and molecular biology lab.

King Faisal University, Al-Ahsa, KSA

Lecturer, Fall 2009 - Spring 2012

- Teaching basic biology courses.

Yarmouk University, Irbid, Jordan

Teaching Assistant, Spring 2008 - Spring 2009

- Teaching different biology laboratories.

RESEARCH EXPERIENCE AND INTEREST

- Microbial genomics, metagenomics and community analysis (microbiome)
- Genetic make-up characterization of common pathogens (Bacteria, Viruses, Fungi)
- Microbial diversity and microbial molecular evolution
- Transcriptome analysis (RNA-seq, GOseq) and bioinformatics applications

SKILLS

Research techniques and experiments:

- RNA and DNA isolation, quantification and quality control. cloning and sequencing. PCR, and qPCR analyses. Antimicrobial activity. Isolation and molecular characterization of common bacteria. Virus Like Particles (VLP) isolation. Phylogenomics. Next generation sequencing and data analyses. Genome and transcriptome assemblies. Comparative genomic and transcriptomic analyses.

Bioinformatics:

- NGS data processing and analyses platforms and tools:
 - CLC Genomics Workbench
 - Geneious
 - BLAST2GO (RNA-Seq and GOseq)
 - Illumina pipeline
 - RStudio
- Phylogenetics analyses tools:
 - Mesquite
 - Mega7
 - PAUP
 - MrBayes

AWARDS

- Bellwether Doctoral Fellowship May 2016 – May 2017
- Chapman graduate scholars award, 2015
- Bovaird graduate student fellowship summer 2013, 2014, 2015

PROFESSIONAL MEMBERSHIP

- American Society of Microbiology (ASM)
- American Society of Microbiology (ASM) young ambassador to Jordan 2019 - present
- Phi Kappa Phi honor society

CONFERENCES AND ABSTRACTS

- ASM Microbes 2016 Boston, MA
- TU Student Research Colloquium 2015, 2016, 2017, Tulsa, OK
- ASM Microbes 2015, New Orleans, LA
- ASM branch meeting 2014, Kansas City, MO

SELECTED PUBLICATIONS

Alanagreh, L., Pegg, C., Amritha, H., and Buchheim, M. A. 2017. Assessing Intragenomic Variation of the Internal Transcribed Spacer Two: Adapting Illumina Metagenomics Protocol. *PLOS ONE*. 18;12(7): e0181491.

Abussaud, M. J., **Alanagreh, L.** and Abu-Elteen, K. 2013. Isolation, characterization and antimicrobial activity of *Streptomyces* strains from hot spring areas in the northern part of Jordan. *African Journal of Biotechnology*. 12(51), 7124-7132.