

## السيرة الذاتية

بكالوريوس كيمياء حيوية, كلية العلوم, جامعة الملك سعود, معدل 4.8 مع مرتبة الشرف الأولى (2005)

ماجستير كيمياء حيوية, كلية العلوم, جامعة الملك سعود, معدل 4.8 (2009)

دكتوراه كيمياء حيوية, معدل 3.7 من 4, جامعة ولاية كولورادو, أمريكا (2016)

## المناصب

2024-حاليا أستاذ مشارك, قسم الكيمياء الحيوية, كلية العلوم, جامعة الملك سعود

2024-2017 أستاذ مساعد, قسم الكيمياء الحيوية, كلية العلوم, جامعة الملك سعود

2011-2007 محاضر, قسم الكيمياء الحيوية, كلية العلوم, جامعة الملك سعود

## الخبرات

2007-حاليا

تدريس مقررات بكالوريوس وماجستير والاشراف على أبحاث علمية وعملية والمشاركة في لجان عدة على مستوى القسم والكلية

## المشاركات

المشاركة في برامج موهبة الاثرائية وتحكيم بحوث

## Curriculum Vitae

### Contact information

Nouf Omar Alafaleg

Nationality: Saudi

e-mail: nalafaleg@ksu.edu.sa

### Education

2005 BSc in Biochemistry, GPA 4.8 out of 5 with first Honors Class, College of Science, King Saud University.

2009 MSc in Biochemistry, GPA 4.78 out of 5, College of Science, King Saud University.

2016 PhD in Biochemistry and Molecular Biology, GPA 3.7 out of 4, College of Natural Sciences, Colorado State University, U.S.A.

### Positions held

2024-current Associate professor, Biochemistry Department, College of Science, King Saud University.

2017-2024 Assistant professor, Biochemistry Department, College of Science, King Saud University.

2020-2021 Visiting professor at PNU.

2011-2016 PhD student and teaching assistant, Biochemistry Department, Colorado State University, U.S.A.

2007-2011 Lecturer, Biochemistry Department, College of Science, King Saud University.

### Experience

2007-current Teaching undergraduate and graduate Biochemistry courses for the department of biochemistry at the University. Assisting the department with administrative work.

2005-2009 Masters of science student at King Saud University, biochemistry department.

2004-2005 Trainee at Research center at King Faisal Hospital and Research center.

2004-2011 Volunteer at a number of female charity establishments Saudi Arabia

2011-2016 Graduate student at the Yao/Cohen Labs and teaching assistant at Colorado State University, U.S.A

### Research experience

Generation of site-specific ubiquitinated histones to use as substrates in invitro biochemical studies.

MALDI-TOF Mass spec and spectrophotometry.

Cell tissue culture experience with mammalian cells.

Cloning and site directed mutagenesis. Protein expression and purification.

DNA and RNA extraction and purification, PCR, ELISA and HPLC.

SDS-PAGE and agarose electrophoresis.

### **Training experience**

2004-2005 King Faisal Specialist hospital and research center in the functional genomics unit, genetics dept., research center. Under the supervision of Dr. Mehmet Inan, PhD, section head, functional genomics unit, genetics dept., research center.

2011-2012 Several rotations in Colorado State University labs.

2012-2016 Yao/Cohen Lab, Colorado State University, U.S.A.

### **Recent Publications**

El-Arabey, A.A., Alkhalil, S.S., AlAfaleq, N.O. et al. Wild-Type TP53 Predicts Poor Prognosis in Lower-Grade Glioma via TP53-CXCL14-GATA3 Axis. *J Mol Neurosci* 75, 37 (2025).

<https://doi.org/10.1007/s12031-025-02323-w>

Al-Zahrany, L.A., Alafaleq, N.O., Bhat, S.A., Islam, B.u., Jali, B.R., Naz, H., Al-Okail, M.S., Alenad, A.M., Al-twajry, N. and Khan, M.S. (2025), Inhibition of Catalase Glycation by Ajwa Date Phenolics: A Spectroscopic and Computational Study. *Chem. Biodiversity*, 22: e202403144.

<https://doi.org/10.1002/cbdv.202403144>

Abdalla, M., Ogunlana, A.T., Akinboade, M.W. et al. Allosteric activation of AMPK ADaM's site by structural analogs of Epigallocatechin and Galegine: computational molecular modeling investigation. *In Silico Pharmacol.* 13, 19 (2025).

<https://doi.org/10.1007/s40203-025-00311-x>

### **Honors and Awards**

Saudi Food and Drug Administration for participating in lectures for both national food safety awareness day and for staff.

B.Sc. with 1st honors degree.

Other awards in different competitions and activities including a poster award at Colorado State University for my PhD project.

### **Contributions**

Member in Advisory committee for the Saudi food and drug administration for food safety and technology.

King Abdulaziz and His Companions Foundations For Giftedness and creativity (MAWHIBA)- Evaluated and judged scientific projects for gifted students and organized and supervised training programs.

The Education and Training Evaluation Commission- collaborated in writing, reviewing, and grading “.

Gave several workshops in Western blots and HPLC protein purifications at College of Science, King Saud University.