

# Aiman Yahya Alwadi, PharmD, MSc

College of Pharmacy, Alfaisal University

P.O. Box 50927, Takhassusi Street

Riyadh, Kingdom of Saudi Arabia

Email: [aalwadi@alfaisal.edu](mailto:aalwadi@alfaisal.edu) ; [aiman.alwadi@gmail.com](mailto:aiman.alwadi@gmail.com)

Phone: +966 11 289 0807

Website: <https://www.linkedin.com/in/aiman-alwadi-a4089247>



## Summary

Dr. Aiman Alwadi is a lecturer of biotechnology and director of Phase-3 (Year 4 and 5) of the Doctor of Pharmacy (PharmD) program at College of Pharmacy, Alfaisal University (AU). He holds a master's degree in biotechnology (first-class honors; GPA 4.00/4.00) from College of Medicine, AU, and a PharmD degree (first-class honors; GPA 4.93/5.00) from College of Pharmacy, Qassim University. Dr. Alwadi has a one-year clinical experience at King Faisal Specialist Hospital & Research Center in Riyadh, where he served as a PharmD intern. As director of Phase-3, he plans and coordinates academic calendars, courses and examinations, and follows up on classes and students performance. As a faculty member, he participates in teaching a number of undergraduate courses, including patient care and health system management laboratory I and II (PCL 477 and PCL 487), self-care and non-prescription medicine (SCR 364), organic and medicinal chemistry (CHM 232, MCH 241), and pharmaceuticals I (PHC 353). His research interests include synthesis and formulation of bio-derived molecules and studying their binding affinities toward several drug targets for the purpose of enhancing drug delivery and providing alternative ways of antagonizing their pharmacological effects. In addition, performing in-vitro assays on various commercially-available drugs to establish their generic products interchangeability.

## Education



### Alfaisal University

Sep 2019 – Oct 2021

#### Master of Biomedical Sciences – Biotechnology (GPA 4/4)

College of Medicine  
Riyadh, Saudi Arabia



### Qassim University

Sep 2010 – Jun 2016

#### Doctor of Pharmacy (GPA 4.93/5)

College of Pharmacy  
Qassim, Saudi Arabia

## Appointments



### Alfaisal University

Feb 2022 – Present

#### Lecturer of Biotechnology - Full-time

College of Pharmacy  
Riyadh, Saudi Arabia

## Appointments



**Alfaisal University**  
Sep 2022 – Present

**OET Venue Manager – Contract**  
Assessment Office  
Riyadh, Saudi Arabia



**Alfaisal University**  
Nov 2021 – Present

**OET Interlocutor – Contract**  
Assessment Office  
Riyadh, Saudi Arabia



**Alfaisal University**  
Feb 2018 – Present

**Director, PharmD Program's Phase 3 - Full-time**  
College of Pharmacy  
Riyadh, Saudi Arabia



**Alfaisal University**  
Feb 2018 – Jan 2022

**Research & Teaching Assistant - Full-time**  
College of Pharmacy  
Riyadh, Saudi Arabia



**KFSH&RC**  
Jun 2016 – May 2017

**PharmD Intern - Full-time**  
Pharmaceutical Care Department  
Riyadh, Saudi Arabia

## Research

### ***Publications:***

1. **Alwadi A. Y.**, Arafeh G. M., Almhlesi M. S., Maswadeh H. M., Salman I. M., and Ameer O. Z. Comparative Analysis of Commercially Available Paracetamol Tablets in Saudi Arabia. *Dissolution Technologies*. 2022 Aug; DOI: dx.doi.org/10.14227/DT290322PGC2 (**IF: 0.978**)
2. Maswadeh H. M., Abdellatif A. H., Amin M. A., **Alwadi A. Y.**, and Ibrahim M. A. Prediction of Plasma Drug Concentration Profiles and Pharmacokinetic Parameters of Nifedipine Commercial Tablets Using the Convolution Method. *Research J. Pharm. and Tech.* 2021 Oct; 14(10):5380-4. DOI: 10.52711/0974-360X.2021.00938. (**IF: 1.203**)
3. Ameer O. Z., Salman I. M., **Alwadi A. Y.**, et al. Regional Functional and Structural Abnormalities within the Aorta as a Potential Driver of Vascular Disease in Metabolic Syndrome. *Exp Physiol*. 2021 Mar; 106(3):771-788. DOI: 10.1113/EP089213. (**IF: 2.969**)

### ***Current and ongoing research:***

1. Selection and characterization of DNA aptamers for the monitoring and management of bleeding associated with the anticoagulant agent betrixaban.
2. Selection and characterization of aptamers for the detection of respiratory syncytial virus (RSV) fusion protein.

3. Selection and characterization of DNA aptamers for the detection of *Streptococcus pneumoniae* antigen.
4. Development and validation of aptasensor for the rapid detection of COVID-19 patients.
5. Selection and characterization of DNA aptamers for the monitoring and management of bleeding associated with the anticoagulant agent apixaban.
6. In-vitro selection of DNA aptamers for Entamoeba Histolytica's recombinant pyruvate phosphate dikinase (rPPDK); a promising diagnostic marker and therapeutic target.

## Conference Proceedings

### Published abstracts:

1. Salman I. M., Ameer O. Z. and **Alwadi A. Y.** Differential expression of vascular dysfunction of smaller diameter arteries in a rodent model of metabolic syndrome. *Journal of Hypertension.* 2021 Apr; 39(e250) DOI: 10.1097/01.hjh.0000747296.20754.a4. (IF: 4.844)
2. Ameer O. Z., Salman I. M and **Alwadi A. Y.** Regional Aortic Vascular Dysfunction in a Rodent Model of Metabolic Syndrome. *Journal of Hypertension.* 2021 Apr; 39(e255) DOI: 10.1097/01.hjh.0000747368.82976.e5. (IF: 4.844)

### Posters:

1. **Alwadi, A.Y.**, Chinnappan, R., and Zourob, M. Selection & Characterization of DNA aptamers for the Monitoring & Management of Apixaban-induced Major Bleeding. The 14<sup>th</sup> Annual Research Day Student Poster Competition. Alfaisal University, Riyadh, Saudi Arabia, 2023 March. (Poster presentation)
2. **Alwadi, A.Y.**, Arafeh, G.M., Salman, I.M., and Ameer, O.Z. Comparative Analysis of Commercially Available Acetaminophen Tablets in Saudi Arabia. The 13<sup>th</sup> Annual Research Day Student Poster Competition. Alfaisal University, Riyadh, Saudi Arabia, 2022 March. (Poster presentation)
3. **Alwadi, A.Y.**, Ameer, O.Z. and Salman, I.M. Smaller Diameter Arteries Express A Differential Vascular Dysfunction in Metabolic Syndrome: A Preliminary Rodent Study. The 12<sup>th</sup> Annual Research Day Student Poster Competition. Alfaisal University, Riyadh, Saudi Arabia, 2021 March. (Poster presentation)
4. **Alwadi, A.Y.**, Salman, I.M., and Ameer, O.Z. Segmental Aortic Dysfunction in A Metabolic Syndrome Rat Model. The 11<sup>th</sup> Annual Research Day Student Poster Competition. Alfaisal University, Riyadh, Saudi Arabia, 2020 March. (Poster presentation)
5. **Alwadi, A.Y.** and Maswadeh H. M. An Investigation on Physical Quality Control Parameters of Commercially Available Paracetamol Tablets in the Kingdom of Saudi Arabia. The 5<sup>th</sup> Pharmacy Research Day Competition. Qassim University, Buraidah, Saudi Arabia, 2017 February. (Poster presentation)

## Teaching

Courses Taught	Code	Delivery	Experience
Patient Care and Health System Management Laboratory I	PCL 477	Lectures/Lab	2018 – Present; 6 years
Patient Care and Health System Management Laboratory II	PCL 487	Lectures/Lab	2018 – Present; 6 years
Self-care and Non-prescription Medicine	SCR 364	Lectures	2019 – Present; 5 years
Pharmaceutics I	PHC 353	Lab	2018 – 2021; 3 years
Medicinal Chemistry	MCH 241	Lab	2018 – 2021; 3 years
Organic Chemistry	CHM 232	Lab	2018 – 2021; 3 years

## Licensure and Memberships

**SCFHS** – Saudi Commission for Health Specialists [17-J-P-0030521].

**ACCP** – American College of Clinical Pharmacy.

**IPSHD** – International Parliament for Scientists of Human Development.

## Awards and Achievements

1. 2<sup>nd</sup> place at the "14<sup>th</sup> Annual Research Day Student Poster Competition", Alfaisal University (2023).
2. 2<sup>nd</sup> place at the "13<sup>th</sup> Annual Research Day Student Poster Competition", Alfaisal University (2022).
3. Master of Biomedical Sciences - Biotechnology degree with an *Excellent grade* and *First-Class honor*, received during the 10<sup>th</sup> batch graduation ceremony, Alfaisal University (2021).
4. 1<sup>st</sup> place at the "12<sup>th</sup> Annual Research Day Student Poster Competition", Alfaisal University (2021).
5. Internal Research Grant (IRG 21313) from the Office of Research and Graduate Studies, Alfaisal University (2021).
6. 3<sup>rd</sup> place at the "11<sup>th</sup> Annual Research Day Student Poster Competition", Alfaisal University (2020).
7. Graduate Program Scholarship from the Office of Research and Graduate Studies, Alfaisal University (2019).
8. Best Research Poster Award at the "5<sup>th</sup> Pharmacy Research Day" conference, Qassim University (2017).
9. Doctor of Pharmacy degree with an *Excellent grade* and *First-Class honor*, received during the 13th batch graduation ceremony, Qassim University (2016).
10. Academic Excellence Golden Medal Awards for academic years of 2012/2013, 2013/2014, 2014/2015, and 2015/2016, Qassim University.
11. Leadership Honoree Award for academic year of 2012/2013 at College of Pharmacy, Qassim University (2012).
12. Internal Scholarship for Undergraduate Studies from the Ministry of Education, Saudi Arabia (2010).

## Referees

1. **[Prof. Mohammed Zourob, PhD](#)**  
Professor of Chemistry, College of Science and General Studies  
Alfaisal University, Riyadh, Kingdom of Saudi Arabia  
**Tel:** +966 11 215 7938  
**Email:** [mzourob@alfaisal.edu](mailto:mzourob@alfaisal.edu)
2. **[Prof. Hamzah M. Maswadeh, PhD](#)**  
Professor of Pharmaceutics, Head of Pharmaceutics Department, College of Pharmacy  
Qassim University, Buraidah, Kingdom of Saudi Arabia  
**Tel:** +966 53 1263 569  
**Email:** [msodh@qu.edu.sa](mailto:msodh@qu.edu.sa)
3. **[Prof. Mohammed Khanfar, PhD](#)**  
Professor of Medicinal Chemistry and Drug Design, Vice Dean, College of Pharmacy  
Alfaisal University, Riyadh, Kingdom of Saudi Arabia  
**Tel:** +966 11 215 7664  
**Email:** [mkhanfar@alfaisal.edu](mailto:mkhanfar@alfaisal.edu)
4. **[Dr. Omar Ziad Ameer, PhD](#)**  
Assistant Professor of Pharmacology, Head of Pharmaceutical Sciences Department, College of Pharmacy  
Alfaisal University, Riyadh, Kingdom of Saudi Arabia  
**Tel:** +966 11 215 7661  
**Email:** [ooladhami@alfaisal.edu](mailto:ooladhami@alfaisal.edu)
5. **[Dr. Ibrahim M. Salman, PhD](#)**  
Assistant Professor of Pharmacology, Head of Pharmacy Practice Department, College of Pharmacy  
Alfaisal University, Riyadh, Kingdom of Saudi Arabia  
**Tel:** +966 11 215 8819  
**Email:** [isalman@alfaisal.edu](mailto:isalman@alfaisal.edu)