

Saud Alshammari

Rafha, Northern Border Region, Saudi Arabia *966551055990* saud5990@gmail.com,
saud.o.alshammari@nbu.edu.sa

PROFESSIONAL EXPERIENCE

- Assistant professor, Faculty of Pharmacy, Northern Border University *Rafha, Saudi Arabia
Nov 2022 – present*
- Lecturer, School of Pharmacy, Northern Border University *Rafha, Saudi Arabia
Aug 2021 – Nov 2022*
- Teaching Assistant (TA), School of Pharmacy, Northern Border University *Rafha, Saudi Arabia
Mar 2016 – Aug 2021*
- Pharmacist, Johns Hopkins Aramco Healthcare Center. *Dhahran, Saudi Arabia
Nov 2015 – Mar 2016*

EDUCATION

Chapman University, School of Pharmacy

Irvine, CA

Doctor of Philosophy in Pharmaceutical Sciences. GPA: 3.92 out of 4.0

Sep 2019 – May 2022

Master of Sciences in Pharmaceutical Sciences. GPA: 3.82 out of 4.0

Aug 2017 – Aug 2019

- Performed cell-based assays (cytotoxicity and antibacterial assays).
- Experienced in using SDS-PAGE Electrophoresis technique.
- Experienced in using analytical and spectroscopy methods like HPLC, FPLC, Edman protein sequencing, NMR, MALDI-TOF, Q-TOF LC-MS, Surface Plasmon Resonance, X-Ray Crystallography, and Spectrophotometer.

PhD. Dissertation Title: Cytotoxic Activity of Non-Specific Lipid Transfer Protein (nsLTP1) and Proteomic Evaluation of Heparin-Binding Proteins from Ajwain (*Trachyspermum ammi*) Seeds.

MS. Thesis Title: Characterization of Biologically Active Proteins from Red Maple (*Acer rubrum*) Leaves.

Virginia Commonwealth University, Richmond

Richmond, VA

Master's preparation Intensive English Program

May 2016 – May 2017

- Prepare for English graduate level studies through intensive reading and writing classes.
- Improve speaking and presentation skills through numerous presentations and seminars.
- Familiarize with and develop essential graduate level study skills through specialized courses to provide a firm foundation upon which to begin a graduate program in pharmacy.
- Strengthened and trained academic writing skills through diverse weekly writing assignments.

Northern Border University (NBU), College of Pharmacy

Rafha, Saudi Arabia

Pharm.D. Degree. GPA: 4.69 out of 5.0

Mar 2015

Course Work

- Natural Products
- Pharmacology
- Pharmacotherapy
- Toxicology

- Pharmaceutics
- Medicinal Chemistry

English language course

*London, United Kingdom
2010*

- This course was including many language skills such as Grammar and Structure, Lexical Development, Communication Skills, and Language Awareness.

RELEVANT EXPERIENCE & QUALIFICATIONS

Internships

Dhahran, Saudi Arabia

Johns Hopkins Aramco Healthcare Center

July 2014 – Dec 2014

- Prescription dispensing for over 350 hospitalized patients every day.
- Trained to check for drug interactions through medications monitoring in the Ambulatory Care, Coronary Care Unit, and Intensive Care Unit Department with a team of physicians and clinical pharmacists.
- Worked in the pharmacy informatics department along with pharmacy informatics Analyst on SAP health care and maintains the data base and reporting system.

Rafha, Saudi Arabia

Rafha Central Hospital

Dec 2014 – Feb 2015

- In this internship opportunity 2 rotations had been conducted in different areas: Infectious Diseases and hospital pharmacy.

King Faisal Specialist Hospital & Research Center

Riyadh, Saudi Arabia

Feb 2015 – Apr 2015

- Nephrology and Neonatal Intensive Care Unit rotations: follow and observe the clinical pharmacists during the health care round.

King Fahad National Center for Children's Cancer (KFNCCC)

Riyadh, Saudi Arabia

May 2015

- Preparing IV Admixtures/Chemotherapy Preparation Services, Clinical and TPN Pharmacy Services.

TRAINING SEMINAR AND PROFESSIONAL EVENT

- Ethical Aspects in New Health Technologies Research at King Abdulaziz City for Science and Technology (KACST).

*Riyadh, Saudi Arabia
2023*

- Organizer in Saudi Pharmacists Day at NBU.

*Rafha, Saudi Arabia
2014*

- Attending weekly faculty seminars at School of Pharmacy.

*Rafha, Saudi Arabia
2013*

- Organizer in Beware May Be Toxic Campaign, School of Pharmacy.

*Rafha, Saudi Arabia
2013*

- Attended Pharmacokinetic workshop of Dr. Samirah at Pharmacy College.
- Attended of the 3rd Pharmacy Career Day.

*Rafha, Saudi Arabia
2013*

*Riyadh, Saudi Arabia
2012*

LICENSES AND CERTIFICATIONS

- Project Management Professional (PMP).
- Research Bioethics online course via the National Committee of Bioethics platform.

MEMBERSHIP AND ASSOCIATION

- Member in the Pharmacy Honor Society (Rho Chi).
- Current Member of the American Chemical Society (ACS).
- Membership in American Association of Pharmaceutical Scientist (AAPS).
- Membership in National Center for Faculty Development & Diversity (NCFDD).
- Certificated Licensed Pharmacist by the Saudi Commission for Health Specialties (SCHS).
- Current Member of the Saudi Pharmaceutical Association.
- Member in PHACT, KSA.
- President of the student council in school of pharmacy, NBU 2012-15.
- Graduate Student Council Member at Chapman University, 2018-19.
- Member of Quality and Accreditation Council in School of Pharmacy at NBU.

ADDITIONAL SKILLS & ACCOMPLISHMENTS

- Awarded as third best poster in the research day at the school of pharmacy, NBU, 2016.
- Elected as student council president for 3 years.
- Basic Life Support (BLS) certificate from Saudi Heart Association (SHA).

CONFERENCE PRESENTATIONS

Saud Alshammari, Yamna Khurshid., Hang Ma., Navindra P. Seeram., Aftab Ahmed. Characterization of Biologically Active Proteins from Red Maple (*Acer rubrum*) Leaves. *257th American Chemical Society National Meeting & Exposition*, Orlando, FL (2019).

POSTERS

John Lee, Lauren Chin, Kristine Nguyen, **Saud Alshammari**, Basir Syed, Aftab Ahmed. Affinity Protein Profiling of Ajwain (*Trachyspermum ammi*) Seeds. *American Society of Health-System Pharmacists, midyear 2021 clinical meeting & exhibition* (2021).

PUBLICATIONS

Alshammari, Q.A., **Alshammari, S.O.**, Alshammari, A. et al. Unraveling the mechanisms of glioblastoma's resistance: investigating the influence of tumor suppressor p53 and non-coding RNAs. *Naunyn-Schmiedeberg's Arch Pharmacol* (2024). <https://doi.org/10.1007/s00210-024-03564-z>

Khalil, Eman M., Yasmin M. Madney, Mahmoud Hassan, Alzhraa M. Fahmy, **Saud O. Alshammari**, Qamar A. Alshammari, Heba A. Abou-Taleb, Ahmed A. Taha, Marwa O. Elgendy, and Hamada A. A. Ali. "Maternal and Fetal Outcome of COVID-19 Infection among Pregnant Women." *Medicina* 60, no. 10 (October 12, 2024): 1676. <https://doi.org/10.3390/medicina60101676>.

Alshammari, S.O., Alshammari, Q.A. Natural product-derived ALK inhibitors for treating ALK-driven lung cancers: an in silico study. *Mol Divers* (2024). <https://doi.org/10.1007/s11030-024-10953-2>

Faisal, Shah, M. Shaaban Sadek, Carlo Pastore, Luigi Di Bitonto, **Saud O. Alshammari**, Cassamo U. Mussagy, Salah M. El-Bahy, Tamer M.M. Abdellatif, Zeinhom M. El-Bahy, and Ahmad Mustafa. Sustainable Synthesis of 2-Ethyl Hexyl Oleate via Lipase-Catalyzed Esterification: A Holistic Simulation and Cost Analysis Study." *Sustainable Chemistry and Pharmacy* 41 (October 2024): 101726. <https://doi.org/10.1016/j.scp.2024.101726>.

Alshammari SO. Marine Brown Algae-Derived Compounds as Potential Inhibitors of Japanese Encephalitis Virus RNA-Dependent RNA Polymerase. *Mar Drugs*. 2024 Feb 17;22(2):92 <https://doi.org/10.3390/md22020092>.

Son, S., Elkamhawy, A., Gul, A. R., Al-Karmalawy, A. A., Alnajjar, R., Abdeen, A., Ibrahim, S. F., **Alshammari, S. O.**, Alshammari, Q. A., Choi, W. J., Park, T. J., & Lee, K. (2023). Development of new TAK-285 derivatives as potent EGFR/HER2 inhibitors possessing antiproliferative effects against 22RV1 and PC3 prostate carcinoma cell lines. *Journal of Enzyme Inhibition and Medicinal Chemistry*, 38(1), 2202358. <https://doi.org/10.1080/14756366.2023.2202358>

Gouda, N. A., **Alshammari, S. O.**, Abourehab, M. A. S., Alshammari, Q. A., & Elkamhawy, A. (2023). Therapeutic potential of natural products in inflammation: Underlying molecular mechanisms, clinical outcomes, technological advances, and future perspectives. *Inflammopharmacology*, 31(6), 2857–2883. <https://doi.org/10.1007/s10787-023-01366-y>

Aldakhil, T., **Alshammari, S. O.**, Siraj, B., El-Aarag, B., Zarina, S., Salehi, D., & Ahmed, A. (2023). The structural characterization and bioactivity assessment of nonspecific lipid transfer protein 1 (nsLTP1) from caraway (*Carum carvi*) seeds. *BMC Complementary Medicine and Therapies*, 23, 254. <https://doi.org/10.1186/s12906-023-04083-9>

Elkamhawy, A., Oh, N. K., Gouda, N. A., Abdellatif, M. H., **Alshammari, S. O.**, Abourehab, M. A. S., Alshammari, Q. A., Belal, A., Kim, M., Al-Karmalawy, A. A., & Lee, K. (2023). Novel Hybrid Indole-Based Caffeic Acid Amide Derivatives as Potent Free Radical Scavenging Agents: Rational Design, Synthesis, Spectroscopic Characterization, In Silico and In Vitro Investigations. *Metabolites*, 13(2), Article 2. <https://doi.org/10.3390/metabo13020141>

Elkamhawy, A., Son, S., Lee, H. Y., El-Maghrabey, M. H., Hamd, M. A. E., **Alshammari, S. O.**, Abdelhameed, A. A., Alshammari, Q. A., Abdeen, A., Ibrahim, S. F., Mahdi, W. A., Alshehri, S., Alnajjar, R., Choi, W. J., Al-Karmalawy, A. A., & Lee, K. (2023). Design, Synthesis, Biological Evaluation, and Molecular Dynamics Studies of Novel Lapatinib Derivatives. *Pharmaceuticals*, 16(1), Article 1. <https://doi.org/10.3390/ph16010043>

Alshammari, S. O., Aldakhil, T., Alshammari, Q. A., Salehi, D., & Ahmed, A. (2022). Cytotoxic activity of non-specific lipid transfer protein (nsLTP1) from Ajwain (*Trachyspermum ammi*) seeds. *BMC Complementary Medicine and Therapies*, 22(1), 135.

Alshammari, Q. A., Pala, R., Barui, A. K., **Alshammari, S. O.**, Nauli, A. M., Katzir, N., Mohieldin, A. M., & Nauli, S. M. (2022). The use of advanced spectral imaging to reveal nanoparticle identity in biological samples. *Nanoscale*, 14(11), 4065–4072.

Riahifard, N., Mozaffari, S., Aldakhil, T., Nunez, F., Alshammari, Q., **Alshammari, S.**, ... Tiwari, R. K. (2018). Design, Synthesis, and Evaluation of Amphiphilic Cyclic and Linear Peptides Composed of Hydrophobic and Positively-Charged Amino Acids as Antibacterial Agents. *Molecules*, 23(10), 2722.