

## **Faculty Portofolio**

**Dr. Abdulrhman Saleh Alsayari**

Associate Professor

Pharmacognosy Department

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### **Education:**

<b>Year of Graduation</b>	<b>Qualifications (Specializations if any)</b>	<b>University/College, Country</b>
August 2014	Ph.D.	South Dakota State University, USA
May 2005	B.Sc. Pharmaceutical Sciences	College of Pharmacy, King Saud University, Saudi Arabia

### **Professional experience:**

<b>Year</b>	<b>Positions</b>	<b>University/College, Country</b>
May, 2017-present	Coordinator of the Pharmacognosy Department (female sector)	College of Pharmacy, King Khalid University, Abha, KSA
January 2019- to date	Associate Professor	Department of Pharmacognosy, College of Pharmacy, King Khalid University, Saudi Arabia
January 2015- to January 2019.	Assistant Professor	Department of Pharmacognosy, College of Pharmacy, King Khalid University, Saudi Arabia
2006-2015	Teaching Assistant	
September 2015- to date	Dean of College of Pharmacy	College of Pharmacy, King Khalid University, Saudi Arabia
2015-216	Supervisor of Pharmaceutical Care Services	King Khalid University Medical City, Saudi Arabia
August 2015 –2016	Chairman of Pharmacognosy Department	Department of Pharmacognosy, College of Pharmacy, King Khalid University, Saudi Arabia
2015- 2017	Chairman of Asir Pharmacy Club,	Saudi Pharmaceutical Society, Saudi Arabia

### Community service activities

Year	Positions & Name of the Project	University/Company, Country
September, 2017	Establish and design a program to improve community knowledge and awareness regarding the use of medications and herbal remedies	College of Pharmacy, King Khalid University, Saudi Arabia
November, 2019	Develop a program to improve the patient experience in Aseer General Hospital by using Design thinking.	College of Pharmacy, King Khalid University, Saudi Arabia

### Workshops/ Trainings:

Year	Title	University/Company, Country
9 April 2015	Workshop on Positive Academic Leadership	Academic Leadership Center, Ministry of Education, Jeddah, KSA
22-23 APRIL 2015	Workshop on establishing professional advisory group,	DUBAI, presented by University of Technology, Sydney, Australia
12 October, 2017	The ACPE Certification workshop	Riyadh, KSA, presented by Accreditation Council for Pharmacy Education (ACPE), International Services
4-5 March 2018	Best practices for planning and evaluation of experiential education,	Abu Dhabi, UAE, presented by Accreditation Council for Pharmacy Education (ACPE), International Services

### Research interests:

- **Natural products chemistry**
  - Natural products separation (marine and higher plants), structural elucidation, bioassay guided fractionation and structural modification.
  - Using Different kind of chromatography techniques for separation and analysis such as LC, HPLC (analytical and preparative), GC and gel permeation.
  - Spectroscopic analysis using IR, UV, MS, 1D-NMR (<sup>1</sup>H, <sup>13</sup>C-NMR) and 2D-NMR (Including COSY, NOESY, HSQC and HMBC). In addition, the ability for measurement on NMR machine.
- **Drug discovery Design**
  - Experience in cell culture techniques and bioassay.
  - Running variety of computational modeling software such as OpenEye Scientific Software

○ **Pharmacy education**

- Develop and use new technology to teach pharmacy to students with different levels of experience and expertise
- Improve education outcomes by designing and delivering undergraduate courses
- Develop and implement new models for e-learning, distance education and inter-professional learning
- Explore issues surrounding competency-based assessment

**Professional membership**

<b>Year</b>	<b>Name of the professional Body</b>	<b>Role</b>
January 2012-present	Society for Medicinal Plant and Natural Product Research, Gesellschaft fuer Arzneipflanzen- und Naturstoff- Forschung (GA)	Member
2010-present	DAAD Alumni Verein Ägypten, Cairo, Egypt	Board member
2008- 2019	Scientific Committee of Dietary Supplements, Central Administration for Pharmaceutical Affairs, Ministry of Health and Population, Egypt	Member

### Publications:

1. Haggag, EG ; Elshamy, AM ; Rabeh, MA ; Gabr, NM ; Salem, M ; Youssif, KA ; Samir, A ; Bin Muhsinah, A ; **Alsayari, A** ; et al. **Antiviral potential of green synthesized silver nanoparticles of Lampranthus coccineus and Malephora lutea.** INTERNATIONAL JOURNAL Of NANOMEDICINE. 2019
2. Mabkhot, YN ; Al-Showiman, SS ; Barakat, A ; Soliman, SM ; Kheder, NA ; Alharbi, MM ; **Asayari, A** ; Bin Muhsinah, A ; et al . **Computational studies of 2-(4-oxo-3-phenylthiazolidin-2-ylidene) malononitrile.** BMC CHEMISTRY. 2019
3. Mabkhot, YN ; Algarni, H ; **Alsayari, A** ; Bin Muhsinah, A ; et al. Synthesis, X-ray Analysis, **Biological Evaluation and Molecular Docking Study of New Thiazoline Derivatives.** MOLECULES. 2019
4. Adshah, SL ; Ahmad, N ; Rehman, AU ; Khan, K ; Ullah, A ; **Alsayari, A** ; Bin Muhsinah, A ; Mabkhot, YN. **Molecular docking and simulation of Zika virus NS3 helicase.** BMC CHEMISTRY. 2019
5. El-Hawary, SS ; Sayed, AM ; Mohammed, R ; Hassan, HM ; Rateb, ME ; Amin, E ; Mohammed, TA ; El-Mesery, M ; Bin Muhsinah, A ; **Alsayari, A** ; et al. **Bioactive Brominated Oxindole Alkaloids from the Red Sea Sponge Callyspongia siphonella.** MARINE DRUGS. 2019
6. Balakumar, P ; Sambathkumar, R ; Mahadevan, N ; Bin Muhsinah, A ; **Alsayari, A** ; Venkateswaramurthy, N ; Jagadeesh, G. **A potential role of the renin-angiotensin-aldosterone system in epithelial-to- mesenchymal transition-induced renal abnormalities: Mechanisms and therapeutic implications.** PHARMACOLOGICAL RESEARCH. 2019
7. Mabkhot, YN ; Alharbi, MM ; Al-Showiman, SS ; Soliman, SM ; Kheder, NA ; Frey, W ; **Asayari, A** ; Bin Muhsinah, A ; Algarni, H. **A novel synthesis, X-ray analysis and computational studies of (Z)-ethyl 2-((Z)-5-((dimethylamino)methylene)-4-oxo-3-phenylthiazolidin-2-ylidene)acetate as a potential anticancer agent.** BMC CHEMISTRY. 2019
8. Balakumar, P ; Sambathkumar, R ; Mahadevan, N ; Bin Muhsinah, A ; **Alsayari, A** ; et al. **Molecular targets of fenofibrate in the cardiovascular-renal axis: A unifying perspective of its pleiotropic benefits.** PHARMACOLOGICAL RESEARCH. 2019
9. **Alsayari, A** ; Bin Muhsinah, A ; Hassan, MZ ; Ahsan, MJ ; Alshehri, JA ; Begum, N. **Aurone: A biologically attractive scaffold as anticancer agent.** EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY. 2019

10. Mabkhot YN, Khaled JMA, Sultan MAS, Alharbi NSHA, Al-Showiman SS, Ghabbour HA, **Alsayari A**, Muhsinah AB, Algarni H. **The novel economical synthesis and antimicrobial activity of a trithiocarbonate derivative.** Bioorg Chem. 2019
11. Fasiha Ahsan, Mian Kamran Sharif, Masood Sadiq Butt, Abdur Rauf, Mohammad Ali Shariati, Muhammad Imran, Tanweer Aslam Gondal, Asghar Khan, Muhammad Atif, Yahia Naseer Mabkhot, Alsayari, A, Abdullatif Bin Muhsinah, H. Algarni. **Legumes and leafy vegetables based multi-mix pakoras to alleviate iron and protein deficiency among school aged children.** Biocell. 2019
12. Saima A., Ghias Uddin, Abdur Rauf, Sheema A., Kamran Ullah, Saima Naz, Muhammad Imran, Mohammad Ali Shariati, Sergey Plygun, Alexey Laishevtcev, Alsayari, A, Abdullatif Bin Muhsinah, H. Algarni, Yahia N. Mabkhot. **Phytochemical, synthesizes of nanoparticles and biological activity of Seriphidium Kurramense (Asteracea) naturally growing in Khyber Pakhtunkhwa.** Biocell. 2019
13. Yahia Nasser Mabkhot,<sup>a</sup> \* Nahed Ahmed Kaal,<sup>b</sup> Seham Alterary,<sup>b</sup> Mohammad S. Mubarak,<sup>c</sup> **Abdulrhman Alsayari**, and Abdullatif Bin Muhsinah. **New Thiophene Derivatives as Antimicrobial Agents.** Journal of Heterocyclic. 2019
14. Toubi, Y.; Abridgach, F.; Radi, S.; Souna, F.; Hakkou, A.; **Alsayari, A.**; Bin Muhsinah, A.; Mabkhot, Y.N. **Synthesis, Antimicrobial Screening, Homology Modeling, and Molecular Docking Studies of a New Series of Schiff Base Derivatives as Prospective Fungal Inhibitor Candidates.** Molecules. 2019
15. MOHD. ZAHEEN HASSAN, **ABDULRHMAN ALSAYARI**, HASNAH OSMAN MOHAMED, ASHRAF ALI, ABDULLATIF BIN MUHSINAH and MOHAMED JAWED AHSAN. **SYNTHESIS AND EVALUATION OF COUMARIN HYBRIDS AS ANTIMYCOBACTERIAL AGENTS.** Acta Poloniae Pharmaceutica. 2019.
16. S.L. Badshah, N. Ahmad, A. Ur Rehman, K. Khan, A. Ullah, A. **Alsayari, A.** Bin Muhsinah, Y.N. Mabkhot. **Molecular docking and simulation of Zika virus NS3 helicase.** BMC Chem. 2019
17. Batool, S., Almaghasla, D., Motaal, A., **Alsayari, A.**, Khaled, A., Dirki, Z. and Attique, S. **Association of Autoimmune Hypothyroid Disease and Obesity with Vitamin D Deficiency in Female Patients.** International Journal of Pharmacology. 2019,

18. Almaghaslagh D, **Alsayari A**, Almodeer L, Alfaifi J, Alshehri R, Al-Shahrani A, Khaled A, Ghazwani M, Abdel Motaal A, Almanasef M. **A Qualitative Study Exploring Pharmacy Education In A Saudi Pharmacy School Running Two Entry-Level Pharmacy Programmes.** Pharmacy Education. 2019
19. Alfaifi, M.; **Alsayari, A.**; Gurusamy, N.; Louis, J.; Eldin Elbehairi, S.; Venkatesan, K.; Annadurai, S.; I. Asiri, Y.; Shati, A.; Saleh, K.; Alboushnak, H.; Handoussa, H.; Bin Muhsinah, A.; Abdel Motaal, A. **Analgesic, Anti-Inflammatory, Cytotoxic Activity Screening and UPLC- PDA-ESI-MS Metabolites Determination of Bioactive Fractions of Kleinia pendula.** Molecules. 2020
20. Yahya I. Asiri, Abdullatif Bin Muhsinah, **Abdulrhman Alsayari**, Hazem A. Ghabbour, Zainab M. Almarhoon, Faiz A. Al-aizari, Kumar Venkatesan, Syed Tasqeeruddin, Syeda Shaheen Sulthana, Yahia N. Mabkhot, **Design, synthesis, X-ray analysis, and biological screening of new oxime and enaminone thiazoline-2-thione derivatives.** Journal of Molecular Structure. 2020
21. Naz, S., Farooq, U., Khan, S., Sarwar, R., Mabkhot, Y. N., Saeed, M., **Alsayari, A.**, Muhsinah, A. B., & Ul-Haq, Z. **Pharmacophore model based virtual screening, docking, biological evaluation and molecular dynamics simulations for inhibitors discovery against  $\alpha$ -tryptophan synthase from mycobacterium tuberculosis.** Journal of Biomolecular Structure and Dynamics. 2020
22. Abdullatif Bin Muhsinah, **Abdulrhman Alsayari**, H. Algarni, Saied M. Soliman, Nabila A. Kheder, Hazem A. Ghabbour, Yahya I. Asiri, Kumar Venkatesan, Yahia N. Mabkhot, **Synthesis, X-ray analysis and computational studies of two novel thiophene derivatives.** Journal of Sulfur Chemistry. 2020
23. Muhammad Ali Hashmi, Umar Farooq, Syeda Sidra Bibi, Sadia Naz, Hong-Guang Xu, Basim H Asghar, Yahia Nasser Mabkhot, **Abdulrahman Alsayari**, Abdullatif Bin Muhsinah, Ayesha Khan. **A profound density functional theory study to unravel the spectroscopic and molecular properties of two Flavanols differing in  $\alpha$ -pyrone ring position.** Journal of Chinese Chemical Society. 2020
24. **Abdulrahman Alsayari**, Abdullatif Bin Muhsinah Yahya I. Asiri Mohammad Y. Alfaifi Serag Eldin I. Elbehairi Fatima Alatibi Nahed Nasser E. El-Sayed Yahia N. Mabkhot. **Synthesis of antimicrobial agents of tetra-substituted thiophenes from ethyl 5-(2-bromoacetyl)-4- phenyl-2-(phenylamino)thiophene-3-carboxylate.** Journal of Heterocyclic Chem. 2020

25. Abdullatif Bin Muhsinah, **Abdulrhman Alsayari**, H. Algarni, Saied M. Soliman, Nabila A. Kheder, Hazem A. Ghabbour, Yahya I. Asiri, Kumar Venkatesan & Yahia N. Mabkhot **Synthesis, X-ray analysis and computational studies of two novel thiophene derivatives**, Journal of Sulfur Chemistry. 2020
26. Yahia Nasser Mabkhot, Jamal M. A. Khaled, Mujeeb A. S. Sulta, Naiyf S. H. A. Alharbi , Hazem A. Ghabbour5 , Fahd A. Nasr , **Abdulrhman Alsayari**, Abdullatif Bin Muhsinah, Hamed Algarni, Yahya I. Asiri. **Synthesis and biological screening of a novel enamionone-grafted trithiocarbonate: a potential anticancer and antimicrobial agent**. Medicinal Chemistry Research. 2020
27. Abdullatif Bin Muhsinah, **Abdulrhman Alsayari**, Kamal Yoonus Thajudeen, Yahya I Asiri, Mahadevan Nanjaian. **Simultaneous estimation of Rutin and Quercetin in Bidens pilosa, Convolvulus arvensis and Neurada procumbens by RP-HPLC** . Research Journal of Pharmacy and Technology. 2020
28. Asiri, Y.I., Alsayari, A., Muhsinah, A.B., Mabkhot, Y.N. and Hassan, M.Z. **Benzothiazoles as potential antiviral agents**. JPharm Pharmacol. 2020
29. Bawazeer S, Rauf A, Naz S, Khalil AA, Mabkhot YN, Asayari A, Muhsinah AB, Algarni H, Al-Tawaha AR, Muhammad N, Rehman AU, Wadood A, Plygun S, Shariati MA. **In vivo anti-nociceptive potential and cyclooxygenases 1 and 2 selectivity of di-naphthodiospyrols from Diospyros lotus**. Rev Bras Farmacogn. 2020
30. Abdullatif Bin Muhsinah, Alfarius Eko Nugroho, Huifang Li, Sarah Lazzaro, Nicholas A. DaSilva, Dongli Li, Hang Ma, **Abdulrhman Alsayari**, Hiroshi Morita, Yongqiang Liu, Navindra P. Seeram, **Saudiarabicains A- E, bioactive 19-acetoxyngol diterpenoids from Euphorbia saudiarabica**, Tetrahedron Letters. 2020
31. Kamal, Y..T., Ahmad, S., Mahadevan, N., Alam, P., Salam, S., Asiri, Y., Muhsinah, A., & **Alsayari, A. Separation and quantification of nine bioactive compounds in traditional Unani formulations by High Performance Liquid Chromatography–Photodiode Array Detector**. Acta Chromatographica Acta Chromatographica. 2020
32. Almaghaslah D, **Alsayari A. The Effects of the 2019 Novel Coronavirus Disease (COVID-19) Outbreak on Academic Staff Members: A Case Study of a Pharmacy School in Saudi Arabia**. Risk Manag Healthc Policy. 2020.
33. Almanasef, M., **Alsayari, A.**, Almaghaslah, D., Alahmari, F., Kandasamy, G. and Vasudevan, R. **Flipping pharmacoepidemiology classes in a Saudi**



**Doctor of Pharmacy program.** Tropical Journal of Pharmaceutical Research, 2020

**Conference attendance/presentations:**

1. **Abdulrhman Alsayari**, F. Halaweish, M. Baruah, N. Rice "study of novel estrogen and cucurbitane analogs affinity and cytotoxicity toward breast cancer cell lines." 45th ACS Midwest Regional Meeting (The Energy of Chemistry) Wichita, KS, USA (Oct. 27-30, 2010).
2. **Abdulrhman. Alsayari**, F. Halaweish, M. Baruah, " novel estrogen and cucurbitane analogs: potential drug candidate targeting breast cancer" 241st ACS National Meeting & Exposition () Anaheim, California, USA (March 27-31, 2011).
3. F. Halaweish, **Abdulrhman. Alsayari**, Kopel L, Salama Ahmed "Design and biological screening of steroidal analogs as selective estrogen receptor modulators" 249th ACS National Meeting & Exposition (Chemistry of Natural Resources) Denver, Colorado, USA (March 22-26, 2015).
4. **Abdulrhman. Alsayari**, Kopel L, F. Halaweish "Development of novel antiestrogenic estrone analogs targeting breast cancer" 2nd International Conference on Medicinal Chemistry & Computer Aided Drug Designing Hampton Inn Tropicana, Las Vegas, USA (October 15-17, 2013).
5. **Abdulrhman. Alsayari**, M Darweesh, F Halaweish, CCL Chase, "Anti- bovine viral diarrhea virus activity of cucurbitacins as new potential antiviral agents" International Congress on Natural Products Research (Global Change, Natural Products, and Human Health) New York City, New York, USA (July 28 – August 1, 2012)
6. Bin Muhsinah A, Liu YQ, Ma H, DaSilva N, Soliman H, **Alsayari A**, Seeram N. Isolation and structure elucidation of diterpenes from *Euphorbia saudi-arabica*