

# ALJAWHARAH A. ALQATHAMA

**Address:** Alabdiyah, P O Box 715, Makkah 21421, Saudi Arabia

**Phone:** +966541564535

**Email:** aaqathama@uqu.edu.sa

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## OBJECTIVE

Provide quality research in the field of drug discovery from natural sources and explore the possibilities that natural products have for their medicinal use and pharmaceutical application. Contribute to scientific knowledge of the pharmacological action of natural products and derivatives through high quality publications.

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## WORK EXPERIENCE

2018 to present  
**Assistant professor at Pharmacognosy department, Umm AlQura University, Makkah, Saudi Arabia**

16-07-2019 to present  
**Head of Pharmacognosy department, Umm AlQura University, Makkah, Saudi Arabia**

12-05-2019 to 15-07-2019  
**Vice-Head of Pharmacognosy department, Umm AlQura University, Makkah, Saudi Arabia**

2013 – 2017  
**Lab demonstrator during the PhD experience in Pharmacognosy and cancer research at UCL School of Pharmacy, London, United Kingdom**

2007 – 2017  
**Demonstrator at Pharmacognosy Department, Faculty of Pharmacy, Umm Al-Qura University, Makkah, Saudi Arabia**

2005 – 2006  
**Internship in Laboratory Medicine, KFAFH (King Fahad Armed Force Hospital), Jeddah, Saudi Arabia**

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## EDUCATION

2013 - 2017  
**PhD degree in Pharmacognosy and cancer research, UCL School of Pharmacy, London, United Kingdom**

2012 - 2013  
**Master's degree in Natural Product Chemistry and Pharmacognosy with distinction degree, UCL School of Pharmacy, London, United Kingdom**

2002 - 2006  
**Bachelor degree in Medical Sciences with an over all**

**grade excellence with honor**, Faculty of Medicine and Medical Sciences, Umm Al-Qura University, Makkah, Saudi Arabia

**List of publications, presentations and reviews**

**Articles published:**

Aljawharah Alqathama and Jose M Prieto (2015). Natural products with therapeutic potential in melanoma metastasis. *Natural Product Reports*, 32, 1170-1182.

Naba Elsaid, Timothy L. Jackson, Zeeneh Elsaid, Aljawharah Alqathama and Satyanarayana Somavarapu (2016). PLGA Microparticles entrapping chitosan-based nanoparticles for the ocular delivery of ranibizumab. *Molecular Pharmaceutics*, 13, 2923-2940.

Aljawharah Alqathama (2016). Natural products and complementary medicines: where are we up to? *British Journal of Pharmacy*, 1, 55-62.

Aljawharah Alqathama, Simon Gibbons, Jose M Prieto (2017). Differential modulation of Bax/Bcl-2 ratio and onset of caspase 3/7 activation induced by derivatives of justicidin B in human melanoma cells A537. *Oncotarget*, 8, 95999-96012.

**Article reviewed:**

Zhang, X., Cao, J., Liu, Z., Yuan, L., Chen, G., Liu, J., Qu, F. and Zhao, Y., (2015). Callistephus A, a novel sesquiterpene from the Callistephus chinensis flower. *Phytochemistry Letters*, 11, 5-8.

Mishra, R., Patel, H., Yuan, L., & Garrett, J. T. (2018). Role of reactive oxygen species and targeted therapy in metastatic melanoma. *Cancer Research Frontiers*, 4, 101-130.

Xu, M., Heidmarsson, S., de Boer, H. J., Kool, A., & Olafsdottir, E. S. (2019). Ethnopharmacology of the club moss subfamily Huperzioidae (Lycopodiaceae, Lycopodiophyta): A phylogenetic and chemosystematic perspective. *Journal of Ethnopharmacology*, 112130.

**Conferences:**

Aljawharah Alqathama, 2018. Differential modulation of Bax/Bcl-2 ratio and onset of caspase-3/7 activation induced by derivatives of Justicidin B in human melanoma cells A375. 2nd *International Conference on Oncology and Cancer Science*, Berlin, Germany.

Aljawharah Alqathama, 2013. Natural products against melanoma migration. *London BioNat Network*, University of East London, London, UK.

Aljawharah Alqathama and Jose M Prieto, 2014. Antimigratory and cytotoxic properties of medicinal plants. *Biennial Congress of the European Association for Cancer Research (EACR)*, Munich, Germany.

Aljawharah Alqathama, Ammar Bader, Prama Khondkar, Simon Gibbons, Jose M Prieto, 2015. Bioguided isolation of cytotoxic compounds against melanoma cells from *Carissa spinarum* L. A. *International Congress and Annual Meeting of the Society*

for Medicinal Plant and Natural Product Research (GA),  
Budapest, Hungary.

Aljawharah Alqathama, Ahmad Yonbawi, Ammar Bader, Simon Gibbons, Jose M Prieto, 2016. Cytotoxicity of *Grewia tenax* on A375 human melanoma cells, and its antimelanogenesis and antioxidant activities. *Joint Natural Products Conference*, Copenhagen, Denmark.

Aljawharah Al-Qathama, Amaka Ezuruike, Andrea Mazzari, A Yombawi, C Lopez-Soriano, M Fuchs, S Seiberth, Jose-Maria Prieto, 2016. Cytotoxic and antimigratory properties of popular Nigerian medicinal plants. *Joint Natural Products Conference*, Copenhagen, Denmark.

## Teaching

- Pharmacognosy 1,2,3 and 4
- Complementary and alternative medicine
- Therapeutic uses of natural products
- Natural product chemistry
- Drug discovery

## Projects

Supervising the MSc students in phamacognosy course and MPharm students at UCL School of Pharmacy for three years, London, United Kingdom.

Supervising final graduation project for pharmacy students, UQU, Makkah, Saudi Arabia.

## Prizes and license

The winner of Schwab Prize for the best student performance in MSc course, UCL School of Pharmacy, London, United Kingdom (2012).

Higher Education Academy in United Kingdom has certified the participant as associate fellow of the Higher Education Academy to practice academic teaching in UK (2017).

The winner of the best scientific corner among all medical schools in the 1st meeting of scientific research in medical schools, UQU, Makkah, Saudi Arabia (2018).

BLS certificate, Makkah, Saudi Arabia.

## Membership

Member of American Association for Cancer Research.

Member of Society for Medicinal Plant and Natural Product Research.

Member of The American Society of Pharmacognosy.

## Communication Skills

Arabic: mother tongue

English: professional

## ADDITIONAL SKILLS

Microsoft Office package: Microsoft Word, Excel, Access

Statistical operation: GraphPad, SPSS, CalcuSyn

Operating software: Topspin

Programming: C++, SQL, HTML

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