

Mohammed Abdullah Al-Shawsh

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Google Scholar: <http://scholar.google.com.my/citations?user=qDa-b64AAAAJ&hl=en>

Professional Summary

Over 10 years' experience of teaching, course coordination, research, and supervision in the Faculty of Medicine, University of Malaya, Malaysia. Expertise in the area of microbiome, metagenomics, and colorectal cancer, demonstrated by many published articles. Supervised 10 PhD and 3 Master students to completion; currently, supervising 8 PhD and 3 Master students. Published over 70 papers in peer-reviewed journals with an h-index of 18 and gave over 25 invited and plenary lectures at international conferences as well as facilitating more than 20 national and international workshops.

Key Skills

- Experienced in undergraduate and postgraduate teaching, and course coordination
- Extensive experience in conducting research in the areas of microbiomes, metagenomics, probiotics, metabolic syndrome, colorectal cancer, drug discovery, and toxicology
- Expert in pharmacotherapeutics studies using *in vitro* and *in vivo* models to unravel the underlying molecular mechanisms of actions and signaling pathways
- Highly capable in using systematic review tools such as RoB2, Covidence, GRADE for evidence certainty assessment and RevMan meta-analysis software
- Prepared research proposals and applications for securing funds from national and international funding agencies
- Managed and supervised 24 international and local postgraduate students from diverse cultures and backgrounds
- Excellent communication, mentoring, collaboration, and interpersonal skills
- Experienced in microbiological testing of pharmaceutical products according to USA and British pharmacopoeia, drug manufacture and principles of quality control and GLP
- Strong experience in cell culture, animal models and molecular techniques, especially qRT-PCR, and PCR-array.
- Proficient skills using SPSS analysis and MS Office

Academic Qualifications

PhD (Immunology) Faculty of Medicine, University of Malaya, Malaysia	Jan 2013
Master of Science (Medical Microbiology) Faculty of Medicine, Sana'a University, Yemen	Apr 2007
Master of Science Preliminary Diploma (Medical Microbiology) Faculty of Medicine, Sana'a University, Yemen	Jun 2005
Bachelor in Medical Laboratories (Biomedical Science) Faculty of Medicine, Sana'a University, Yemen	Jul 1998

Professional Experience

Professor, Department of Pharmacology

May 2022 - Present

Associate Professor, Department of Pharmacology

Oct 2013 – April 2022

University of Malaya, Malaysia

University of Malaya is the oldest and highest ranking Malaysian institution of higher education. According to the latest QS World University Rankings, UM is currently ranked 70th in the world, 8th in Asia, and the highest ranked learning institution in Malaysia.

Responsibilities

- Teaching and coordinating courses for MBBS, Biomedical Science, Dentistry, and Nursing programs, as well as Master program, including lectures, tutorials, practical classes and problem-based learning
- Implementing teaching and learning process according to the PDCA cycle ((Plan-Do-Check-Act) including, development of course material
- Marking, assessment and exam preparation
- Conducting research projects, publishing studies in high impact factor peer-reviewed journals and presenting the findings in international conferences and seminars
- Supervising PhD, and Master students; monitoring their laboratory experiments and research projects
- Securing internal and external research grants through contributing to the preparation of research proposals to support the team projects
- Evaluating proposals, dissertations and theses as internal or external examiner
- Acting as a panel reviewer to assess grant applications at university and national level
- Conducting training and workshops for postgraduate students, researchers and academic staff
- Working as academic adviser for the MBBS and postgraduate students
- Interviewing new undergraduate applicants
- Coordinating seminars and talks for department club
- Networking and collaborating with national and international researchers
- Contributing to department/ faculty administrative functions, such as being appointed as a member of committee at faculty/university level and attending meetings associated with the work of the organisational unit
- Leading department quality management (DQM) and working with faculty quality management committee to ensure compliance to ISO 9001:2015

Key Achievements

- Awarded academic excellence certificate, University of Malaya, 2020
- Published over 70 papers (including over 10 systematic review and meta-analysis articles) in high impact factor peer-reviewed journals with an h-index of 17
- Appointed as a consultant, Qassim University, Saudi Arabia, for a project on the inhibition of telomerase enzyme in leukemic stem cells using thymoquinone encapsulated in α -cyclodextrin, 1/10/2020 – 30/09/2022
- Filed a patent, patent application number: PI 2020006548, titled "A targeted chemotherapeutic drug delivery system and method for producing thereof" filing date: 9th December 2020
- Invited to deliver plenary lectures in over 25 international conferences and facilitated more than 20 national and international workshops
- Awarded a plaque of appreciation as a selected speaker of AFLAS-KALAS Next Generation Academic Exchange Program, South Korea, 17 - 20 July 2019
- Successfully obtained national and international competitive grant funding, which resulted in securing over \$600,000 funding for our research projects on colorectal cancer
- Supervised 10 PhD and 3 Master students to completion; currently, supervising 8 PhD and 3 Master students

- Obtained a fellowship to participate in a training programme on mouse genetics and phenotyping, organized by Chinese Society for Cell Biology and Model Animal Research Center, Nanjing University, China, 17-21 Sept 2019
- Awarded a certificate and plaque of appreciation for contribution as an academic trainer, Malaysia, 12th October 2019
- Obtained more than 5 certificates of appreciation in recognition of my contribution as a forum panel member and for conducting workshops for international students association, Malaysia
- Collaborated with national and international researchers from Universitas Airlangga (Indonesia), National Cheng Kung University (Taiwan), University of Nottingham Malaysia, Universiti Sains Malaysia, and Universiti Kebangsaan Malaysia
- Invited as an external evaluator of an academic promotion application from position of Assistant Professor to Associate Professor for 2 academic staff, Sana'a University, Yemen, 2021
- Appointed as a member of the Reviewers Board of the Deanship of Scientific Research, Jazan University for evaluation of research proposals, Saudi Arabia, 2017, 2019 and 2020
- Nominated as a judge for research oral and poster competition in 3 international and national conferences

Postdoctoral Fellowship

Jan - Sep 2013

University of Malaya, Malaysia

Head of Microbiology Quality Control

Oct 2001 – Feb 2009

Shaphaco Pharmaceutical Industry, Yemen

Microbiology Analyst

Oct 2000 – Sep 2001

Shaphaco Pharmaceutical Industry, Yemen

Medical Laboratory Scientist

Jan 1999 – Sep 2000

Al-Emen Medical Laboratory, Yemen

Professional Affiliations / Memberships

- Associate Editor for Journal *BMC Complementary Medicine and Therapies*; 2018 – Present
- Visiting Fellow, Victoria University, Australia, 12 July - 8 Oct 2022
- Member, National Professors Council, Malaysia, July 2022
- Lifetime Member, Italo-Latin American Society of Ethnomedicine (SILAE), Italy, 2013
- Member, American Society for Microbiology, USA, 2013 - 2017
- Scientist Member, Faculty of Medicine-Institutional Animal Care and Use Committee (FOM-IACUC), University of Malaya, June 2018 – Present
- Member, Asian Council of Science Editors (ACSE), January - December 2022
- Member, The Asia Pacific Bioethics Education Network (APBEN), Chinese University of Hong Kong, September 2021
- Member, Thai Association for Laboratory Animal Science (TALAS), Thailand, July 2019
- Member, Laboratory Animal Science Association of Malaysia (LASAM), Malaysia, June 2018
- Member, Malaysian Society of Pharmacology and Physiology (MSPP), Malaysia, October 2014
- Member, Centre for Natural Products and Drug Discovery (CENAR) University of Malaya, Malaysia, 2013
- Science Advisory Committee Chair, Diagnostic Medical Laboratory Syndicate, Yemen, 2007-2009
- Chair, Scientific Society of Medical Laboratory, Sana'a, Yemen, 1996-1998

Research Grants

Total amount of secured research grants:	\$600,000
Principal Investigator (PI):	10 research projects
Co-investigator (Co-PI):	14 research projects
Current Research Grants:	3 projects as PI and 5 as Co-PI

Postgraduate and Undergraduate Supervision

Completed:	10 PhD students 3 Master students 10 Undergraduate students (Biomedical Science Research Projects)
Ongoing:	8 PhD students 3 Master students 2 Undergraduate students (Biomedical Science Research Projects)

Selected List of Publications

Over 70 papers in peer-reviewed journals (an extensive list can be accessed here

<http://scholar.google.com/my/citations?user=qDa-b64AAAAJ&hl=en>)

1. Dikeocha, I.J.; Al-Kabsi, A.M.; Miftahussurur, M.; **Alshawsh M.A.***. Pharmacomicrobiomics: Influence of gut microbiota on drug and xenobiotic metabolism. *FASEB Journal* **2022**;36:e22350. <https://doi.org/10.1096/fj.202101986R>
2. Dikeocha IJ, Al-Kabsi AM, Hussin S, Eid EEM, **Alshawsh MA***. Probiotics supplementation in patients with colorectal cancer: a systematic review of randomized controlled trials. *Nutrition Reviews* **2022**
3. Kamran S, Sinniah A, Chik Z, **Alshawsh MA***. Diosmetin Exerts Synergistic Effects in Combination with 5-Fluorouracil in Colorectal Cancer Cells. *Biomedicines*. **2022**; 10(3):531. <https://doi.org/10.3390/biomedicines10030531>
4. Dikeocha, I.J.; Al-Kabsi, A.M.; Chiu, H.-T.; **Alshawsh M.A.***. *Faecalibacterium prausnitzii* Ameliorates Colorectal Tumorigenesis and Suppresses Proliferation of HCT116 Colorectal Cancer Cells. *Biomedicines* **2022**, 10, 1128. <https://doi.org/10.3390/biomedicines10051128>
5. Kamran S, Sinniah A, Abdulghani MAM, **Alshawsh MA***. Therapeutic Potential of Certain Terpenoids as Anticancer Agents: A Scoping Review. *Cancers*. **2022**; 14(5):1100. <https://doi.org/10.3390/cancers14051100>
6. **Alshawsh MA***, Alsalahi A, Alshehade SA, Saghir SAM, Ahmeda AF, Al Zarzour RH, Mahmoud AM. A Comparison of the Gene Expression Profiles of Non-Alcoholic Fatty Liver Disease between Animal Models of a High-Fat Diet and Methionine-Choline-Deficient Diet. *Molecules*. **2022**; 27(3):858. <https://doi.org/10.3390/molecules27030858>
7. Chai, J.Y.; Sugumar, V.; **Alshawsh, M.A.***; Wong, W.F.; Arya, A.; Chong, P.P.; Looi, C.Y. The Role of Smoothed-Dependent and -Independent Hedgehog Signaling Pathway in Tumorigenesis. *Biomedicines* **2021**, 9, 1188.
8. Dikeocha IJ, Al-Kabsi AM, Hussin S, **Alshawsh MA***. Role of probiotics in patients with colorectal cancer: a systematic review protocol of randomised controlled trial studies. *BMJ Open* **2020**;10:e038128.
9. Thanusha Ganesan, Ajantha Sinniah*, Zamri Chik and **Mohammed Abdullah Alshawsh**. Punicalagin Regulates Apoptosis-Autophagy Switch via Modulation of Annexin A1 in Colorectal Cancer. *Nutrients* **2020**, 12(8), 2430
10. Kim Jun Cheng & **Mohammed Abdullah Alshawsh** & Elsa Haniffah Mejia Mohammed & Surendran Thavagnanam & Ajantha Sinniah1 & Zaridatul Aini Ibrahim. HMGB1: an overview of its versatile roles in the pathogenesis of colorectal cancer. *Cellular Oncology*, **2020**, 43, 177–193

11. Sanaz Koosha, Zahurin Mohamed, Ajantha Sinniah, Zaridatulaini Ibrahim, Atefehalsadat Seyedan, **Mohammed A. Alshawsh***. Antiproliferative and apoptotic activities of 8-prenylnaringenin against human colon cancer cells. *Life sciences*. **2019**; 232: 116633
12. Sanaz Koosha, Zahurin Mohamed, Ajantha Sinniah, and **Mohammed A. Alshawsh***. Investigation into the Molecular Mechanisms underlying the Anti-proliferative and Anti-tumorigenesis activities of Diosmetin against HCT-116 Human Colorectal Cancer. *Scientific Reports*. **2019**; 9:5148
13. Sanaz Koosha, Zahurin Mohamed, Ajantha Sinniah, and **Mohammed A. Alshawsh***. Evaluation of Anti-Tumorigenic Effects of Diosmetin Against Human Colon Cancer Xenografts in Athymic Nude Mice. *Molecules*. **2019**; 24(14): 2522
14. Koosha S, **Alshawsh MA***, Yeng LC, Seyedan A, Mohamed Z*. An Association Map on the Effect of Flavonoids on the Signaling Pathways in Colorectal Cancer. *International Journal of Medical Sciences*. **2016**; 13(5):374-385. doi:10.7150/ijms.14485.

Conferences and Presentations

Keynote Speaker:	4 international conferences
Invited Speaker:	5 international conferences 4 national conferences
Workshop Facilitation:	23 national and international workshops on systematic review, meta-analysis and other research skills
Oral Presentations:	9 international conferences 1 national conferences
Poster Presentations:	6 international conferences 3 national conferences
Organizing Committee member:	4 international conferences 4 national conferences

Evaluation Activities

External Examiner:	6 PhD theses 3 Master dissertations
Internal Examiner:	10 PhD theses 3 Master dissertations 5 Biomedical Science Research Projects
Candidature Defense Examiner:	15 PhD theses 1 Master dissertations
Proposal Defense Examiner:	4 PhD proposals 2 Master proposals
Reviewer for papers:	Over 50 papers, invited by international peer-reviewed journals

Referees

Available on request