



DR. ABDULLAH A. GHAWANMEH

PROFILE SUMMARY

I had Ph.D. in organic chemistry (advanced materials) from Universiti Malaysia Pahang (UMP), Malaysia, with 17 years' experience in academic, research, and industrial fields. Besides, international trainer experience in quality, safety, and maintenance systems courses. Currently, working as Assistant Professor at faculty of Pharmacy, Middle East University (MEU). I hold various responsibilities such as Editorial member and reviewing for Drug Science and Pharmacy Journal and European Journal of Medicinal Chemistry. My research work focusses on advanced materials (nanotechnology) and their application in biomedicine, advanced drug delivery systems, drug manufacturing technology, organic and bioorganic chemistry, medicinal chemistry, and natural products. I have published 7 articles in high impact factor journals and two articles under review. Moreover, I have shown an excellent achievement in research competitions by winning silver medal in local exhibition and 3MT award. My outstanding performance in research has been recognized locally and internationally.

Contact Details

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ACADEMIC QUALIFICATIONS

- Ph.D. in Organic Chemistry (Nanotechnology), Universiti Malaysia PAHANG (UMP), 2021
- M.Sc. in Applied Chemistry (Natural Products), Jordan University of Science and Technology, 2007
- B.Sc. in Applied Chemistry, Jordan University of Science and Technology, 2004

CURRENT POSITIONS

- Assistant Professor, Faculty of Pharmacy, Middle East University. September, 2022 – June, 2024.
- Reviewer, European Journal of Medicinal Chemistry.
Year of Appointment: 2018 – Present

EXPERIENCES

ACADEMIC EXPERIENCES

○ Part-time Lecturer	March 2022 – September 2022 Biochemistry and their laboratory courses, Irbid University College, Al-Balqa Applied University.
○ Part-time Lecturer	October 2021 – February 2022 Organic chemistry and general chemistry courses, Faculty Science and Arts, Jordan University of Science and Technology.
○ Teaching Assistance	September 2019 – January 2020 Organic chemistry laboratory, Faculty of Industrial Science and Technology, Universiti Malaysia PAHANG, Malaysia.
○ Teaching Assistance	February 2019 – June 2019 Organic chemistry laboratory, Faculty of Industrial Science and Technology, Universiti Malaysia PAHANG, Malaysia.
○ Teaching Assistance	September 2018 – January 2019 Materials chemistry laboratory, Faculty of Industrial Science and Technology, Universiti Malaysia PAHANG, Malaysia.
○ Teacher	August 2005 – April 2008 Ministry of Education, Irbid, Jordan.
○ Assistant lab. Technician	January 2004 – May 2004 Jordan University of Science and Technology / Dept. of Applied Chemistry, Irbid, Jordan.

➤ RESEARCH EXPERIENCES

o Ph.D. research project	February 2017 – January 2021 Project title: GRAPHENE OXIDE - BIOPOLYMERS HYDROGEL NANOCARRIERS FOR THE EVALUATION OF CONTROLLED RELEASE OF ANTICANCER DRUGS
o M.Sc. research project	January 2006 – July 2007 Project title: Isolation, Characterization, and Biological Evaluation of Active Components of <i>Colchicum crocifolium</i> Bioss (Colchicaceae).

➤ INDUSTRIAL EXPERIENCES

o Freelance international trainer	January 2016 – November 2019 I did train in several courses of health, safety, and quality management systems for industrial sector in several countries, including Malaysia, Indonesia, Singapore, and Thailand.
o QA and QMS manager	May 2008 – January 2014 I have been worked as Manger for QA and QMS at Lubrizol Transarabian CO. Ltd, Yanbu, KSA.
o Trainee	July 2003 – September 2003 Arab Pharmaceutical Manufacturing Co. Al-Salt, Jordan.

AREAS OF INTEREST

- o Advanced Drug and Anticancer Drug Delivery System
- o Drug Manufacturing Technology
- o Advanced Materials
- o Organic and Bioorganic Chemistry
- o Polymers Manufacturing Technology
- o Natural Products
- o Nanoparticles and Polymeric nanoparticles

PUBLICATIONS

Abdullah A. Ghawanmeh, Samer A. Tanash, Nathir A. F. Al-Rawashdeh, Borhan Albiss (2024). **The recent progress on nanomaterial-based chemosensors for diagnosis of human exhaled breath: a review.** *Journal of Materials Science*. 1-33. <https://doi.org/10.1007/s10853-024-09680-8>. (Springer, ISI, IF-4.5).

Abdullah A. Ghawanmeh, (2023). **Polymeric nanoparticles delivery circumvents bacterial resistance to ciprofloxacin.** *DARU Journal of Pharmaceutical sciences*. DOI: 10.1007/s40199-023-00498-4. (Springer, ISI, IF-4.3).

Abdullah A. Ghawanmeh, Ling Ling Tan, Gomaa AM Ali, Mohammed A Assiri, Kwok Feng Chong (2023). **Optimization of carboxymethyl Cellulose-Gum arab-based hydrogel beads for anticancer drugs delivery.** *Journal of Molecular Liquids*, 393, 123631. (Elsevier, ISI, IF-6.633).

Al-Rawashdeh Nathir AF., **Ghawanmeh A. A.** (2022). **The Recent progress of Graphene-Based Nanomaterials in Biomedical Applications.** *COJ Reviews and Research*, 4(1), 1.

Ghawanmeh, A. A., Al-Bajalan, H. M., Mackeen, M. M., Alali, F. Q. and Chong, K. F. (2020). **Recent developments on (-)-colchicine derivatives: Synthesis and structure-activity**

relationship. *European Journal of Medicinal Chemistry*, 185, 111788. (Elsevier, ISI, IF-5.572).

Ghawanmeh, A. A., Ali, G. A., Algarni, H., Sarkar, S. M. and Chong, K. F. (2019). **Graphene oxide-Based hydrogels as a nanocarrier for anticancer drug delivery.** *Nano Research*, 12(5), 973-990. (Springer, ISI, IF-8.183).

Ghawanmeh, A. A., Chong, K. F., Sarkar, S. M., Bakar, M. A., Othaman, R. and Khalid, R. M. (2018). **Colchicine prodrugs and codrugs: Chemistry and bioactivities.** *European Journal of Medicinal Chemistry*, 144, 229-242. (Elsevier, ISI, IF-5.572).

Alali, F. Q., Gharaibeh, A. A., **Ghawanmeh, A.,** Tawaha, K., Qandil, A., Burgess, J. P., ... & Oberlies, N. H. (2010). **Colchicinoids from Colchicum crocifolium boiss.(Colchicaceae).** *Natural product research*, 24(2), 152-159. (Taylor & Francis, ISI, IF-2.158).

Alali, F. Q., Gharaibeh, A., **Ghawanmeh, A.,** Tawaha, K., & Oberlies, N. H. (2008). **Colchicinoids from Colchicum crocifolium Boiss.: a case study in dereplication strategies for (–)-Colchicine and related analogues using LC-MS and LC-PDA techniques.** *Phytochemical Analysis*, 19(5), 385-394. (Wiley Online Library, ISI, IF-2.497).

ACHIEVEMENTS

- Silver medal in a poster presentation during CITREX-2018, held in Universiti Malaysia Pahang (UMP).
- Winner at faculty level 3MT Thesis competition -2019 at Faculty of Industrial Science and Technology, Universiti Malaysia Pahang (UMP).

Courses

Trainer

- **Strategic Management of Training Needs of Your Organization Course (5 Days)**, Jakarta, Indonesia, November 2019.
- **Lubricity Tester and Roller Oven for Drilling Fluids Testing (1Day)**, UMP, Kuantan, Malaysia, September 2019.
- **Process Engineering Flare and Over – Pressure System (3 Days)**, Kuala Lumpur, Malaysia, June 2019.
- **Ammonia Manufacturing and Process Troubleshooting (3 Days)**, Kuala Lumpur, Malaysia, April 2019.
- **Advanced Maintenance Planning and Asset Management course presentation (4 Days)**, Kuala Lumpur, Malaysia, January 2019.
- **Safety Engineering and Hazards Control (4 Days)**, Kuala Lumpur, Malaysia, November 2018.
- **Handling and Storage of Toxic and Hazardous Materials (4 Days)**, Kuala Lumpur, Malaysia, September 2018.
- **Welding & Fabrication of Storage Tanks in Accordance with API 650 & API 653 (4 Days)**, Bangkok, Thailand, August 2018.
- **Emergency on Scene Commander (4 Days)**, Kuala Lumpur, Malaysia, July 2018.
- **Metallurgy- Corrosion and Prevention of Failures Material Selection and Properties (4 Days)**, Kuala Lumpur, Malaysia, October 2017.
- **Quality Assurance of Chemical Measurements (4 Days)**, Kuala Lumpur, Malaysia, September 2017.
- **Best Practice in Chemical Risk Assessment and Management (4 Days)**, Kuala Lumpur, Malaysia, May 2017.
- **Purification of water using Reverse Osmosis (RO) Technique (4 Days)**, Kuala Lumpur, Malaysia, September 2016.

- **Refining of Low Carat Gold, Laboratory Quality Management System (ISO 17025) (7 Days)**, Kuala Lumpur, Malaysia, July 2016.
- **Purification of water using Reverse Osmosis (RO) Technique (4 Days)**, Kuala Lumpur, Malaysia, August 2015.

Trainee

- **Practicing the academic work Course (5 Days)**, University of Jordan, June 2022.
- **ISO 14001:2004 EMS Awareness Course (2 Days)**, Training Course, Yanbu, Saudi Arabia, November 2013.
- **ISO 9001:2008 Internal Auditor Training Course (3 Days)**, Training Course, Yanbu, Saudi Arabia, November 2013.
- **ISO 9001:2008 Lead Auditor Training Course IRCA (5 Days)**, Training Course, SGS Jordan, Amman, Jordan, August 2013.
- **Training course on HPLC instrument (12 hours)**, Jordan University of Science and Technology / Pharmaceutical Research Center (PRC), Irbid, Jordan, April 2007.

Regarding Practicing the academic work.

- Al-Kefaya Arabic Language Test - Passed
- **Practicing the academic work Course (5 Days)**, University of Jordan, June 2022.

REFERENCES

Kwok Feng, CHONG (PhD.) Professor	Deputy Director (Rankings) Centre of Corporate & Quality Affairs Universiti Malaysia Pahang Email: ckfeng@ump.edu.my
Feras Alali (PhD.) Professor	Director of Research & Graduate Studies QU Health, Qatar University Email: feras.alali@qu.edu.qa
Ahmad Adel-Rahman Gharaibeh (PhD) Associate Professor	Faculty member Department of Applied Chemical Sciences Jordan University of Science and Technology Email: agharai@just.edu.jo