

CURRICULUM VITAE

Osama Haitham Osama Abusara

*Department of Pharmacy / Faculty of Pharmacy,
Al-Zaytoonah University of Jordan, Amman, Jordan*

Phone: +962 6 4291511

Fax: +962 6 4291432

E-mail: o.abusara@zuj.edu.jo



1. Personal Data

Date of Birth: October 20, 1991

Nationality: Jordanian

2. Education

- Ph.D. (Pharmacy and Pharmaceutical Sciences) 2017, The University of Manchester, Manchester, United Kingdom
- B.Sc. (Pharmacy) 2014, The University of Jordan, Amman, Jordan
- High School 2009, The Modern American School, Amman, Jordan

3. Ph.D. Dissertation

Neuropeptide Antagonists for Cancer Treatment, The University of Manchester, Manchester, United Kingdom.

4. Employment

Academic Positions

- Associate Professor of Pharmacology, Department of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan
December 18, 2023 – present
- Assistant Professor-A of Pharmacology, Department of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan
April 12, 2023 – December 17, 2023



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- Assistant Professor-B of Pharmacology, Department of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan
September 05, 2017 – April 11, 2023

Administrative Positions

- Vice Head of the Department of Pharmacy, Department of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan
September 20, 2023 – September 19, 2024
- Head of the Department of Pharmacy, Department of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan
October 01, 2020 – September 30, 2022
- Vice Head of the Department of Pharmacy, Department of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan
October 01, 2019 – September 30, 2020

Other

- Staff Pharmacist, Aster Orange Pharmacy, Amman, Jordan
July 15, 2018 – April 12, 2019

5. Research Interests

- Multidisciplinary; within the field of Pharmacy and Pharmaceutical Sciences:
 - Pharmacology
 - Clinical Pharmacology
 - Clinical Pharmacy
 - Pharmacy Practice
 - Experimental Therapeutics
 - Drug Discovery
 - Peptide Synthesis

6. Membership in Scientific Societies and Associations

- Jordan Pharmacists Association / February 05, 2014

7. Honors and Awards

- "Edexcel Top Achievers' Certificate" from Edexcel International, United Kingdom for outstanding results in Arabic, Chemistry, Maths, and Physics during the General Certificate of Education (GCE) A Level May/June 2009 examination series, 2010



8. Fellowships and Scholarships

- PhD Scholarship from Al-Zaytoonah University of Jordan (October 2014 – September 2017).

9. Teaching Experience

- *Graduate Courses*
 - 1) Advanced Pharmacology for Nurses
- *Undergraduate Courses*
 - 1) Pharmacology (2)
 - 2) Pharmacology (3)
 - 3) Pharmacology Laboratory
 - 4) Pharmacology for Nurses
 - 5) Pharmaceutical Communication Skills
 - 6) Clinical Pharmacy Laboratory (1) Clinical Cases
 - 7) Professional Pharmacy Practice (2)
 - 8) Legislations and Pharmaceutical Ethics
 - 9) Pharmaceutical Field Training
 - 10) Pharmaceutical Regulatory Affairs

10. Supervision of Graduate Research

- 1) Islam Hlalat (M.Sc.), Co-Supervisor. “Nanoemulsion-loaded in situ gels for hair growth”, 2023/2024 and 2024/2025. Faculty of Pharmacy, Al-Zaytoonah University of Jordan.
- 2) Alia Abu Zaid (M.Sc.), Co-Supervisor. “Impact of anticancer drug combinations on small cell lung cancer cell lines using 2D and 3D models”, 2023/2024. Faculty of Pharmacy, Al-Zaytoonah University of Jordan.
- 3) Rasha Debas (M.Sc.), Co-Supervisor. “Comparison between the inflammation status of several organs after whole body exposure with waterpipe and cigarettes smoke: In vivo study on rats”, 2021/2022 and 2022/2023. Faculty of Pharmacy, Al-Zaytoonah University of Jordan.

11. Grants

- 1) Principal Investigator – Grant No. (27/06/2024-2025), “The Biological Evaluation of Several Compounds and/or Natural Extracts”, Deanship of Scientific Research and Innovation, Al-Zaytoonah University of Jordan, Amman, Jordan
- 2) First Research Associate – Grant No. (14/8/2021-2022), “Identifying Synergistic Combinations of Chemotherapy-Loaded Polyquercetin Nanoparticles and Natural Products to Optimize Anticancer Nanomedicines”, Deanship of Scientific Research and Innovation, Al-Zaytoonah University of Jordan, Amman, Jordan
- 3) Principal Investigator – Grant No. (32/11/2020-2021), “The Investigation of Cytotoxicity of a Short Peptide, When Isomerism of Amino Acids is Employed,



on Small Cell Lung Cancer Cell Lines”, Deanship of Scientific Research and Innovation, Al-Zaytoonah University of Jordan, Amman, Jordan

12. Membership of Committees

- **National and International**

- National

- 1) OSCE External Examiner for Pharmacy Students, Zarqa University, Amman, Jordan, June and September 2025
- 2) Examination Committee (Written and Oral Exams) for Pharmacists Graduates from International Universities, Jordanian Pharmacists Association, Amman, Jordan, January 2021

- **University**

- 1) Research arbitration in the field of Health and Pharmaceutical Sciences for “The 2nd Scientific Conference for Graduate Students” at Al-Zaytoonah University of Jordan, 2024/2025
- 2) Academic Staff Promotion Application Evaluating Committee (to Associate Professor Rank) (a department committee)
- 3) ACPE International-Accreditation Steering Committee (a faculty committee)
- 4) Master Thesis Defense Committee (Co-Supervisor) – Islam Hlalat (M.Sc.) – “Nanoemulsion-loaded in situ gels for hair growth” – Faculty of Pharmacy, 2024/2025
- 5) Member of the Organizing Committee for “Al-Zaytoonah International Pharmaceutical Conference 2024 (ZIPC 2024)” at Al-Zaytoonah University of Jordan, 2023/2024, 2024/2025
- 6) Master Thesis Defense Committee (Co-Supervisor) – Alia Abu Zaid (M.Sc.) – “Impact of anticancer drug combinations on small cell lung cancer cell lines using 2D and 3D models” – Faculty of Pharmacy, 2023/2024
- 7) Master Thesis Defense Committee (Internal Examiner) – Ruba Almaletti (M.Sc.) – “The Application of Pharmacoinformatic Methods for the Prioritization of Drug Targets and Therapeutics for Multisystem Inflammatory Syndrome in Children (MIS-C)” – Faculty of Pharmacy, 2023/2024
- 8) Master Thesis Defense Committee (Internal Examiner) – Alaa Jihad Al-Zayadneh (M.Sc.) – “The effect of single nucleotide polymorphisms (SNPs) of cytokines on the pathogenesis of Systemic Lupus Erythematosus with arthritis among Jordanians patients” – Faculty of Pharmacy, 2022/2023
- 9) Master Thesis Defense Committee (Internal Examiner) – Otrujja Alkhaldi (M.Sc.) – “Development and Evaluation of Mitoxantrone-Loaded Polyquercetin Nanoparticles and their Potential Synergism with other Anticancer Agents” – Faculty of Pharmacy, 2022/2023
- 10) University Council



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- 11) ACPE International-Accreditation Follow-Up Committee (a faculty committee)
- 12) Master Thesis Defense Committee (Internal Examiner) – Dana Zaiter (M.Sc.) – “Sequence Analysis of *N-Acetyltransferase 2* Gene Among Type II Diabetic Patients in Jordan” – Faculty of Pharmacy, 2022/2023
- 13) Master Thesis Defense Committee (Co-Supervisor) – Rasha Debas (M.Sc.) – “Comparison between the inflammation status of several organs after whole body exposure with waterpipe and cigarettes smoke: In vivo study on rats” – Faculty of Pharmacy, 2022/2023
- 14) Faculty Council
- 15) Research arbitration in the field of Health and Pharmaceutical Sciences for “The 1st Scientific Conference for Graduate Students” at Al-Zaytoonah University of Jordan, 2022/2023
- 16) Member of the Scientific Committee for “Al-Zaytoonah International Pharmaceutical Conference 2022 (ZIPC 2022)” at Al-Zaytoonah University of Jordan, 2021/2022, 2022/2023
- 17) Master Thesis Defense Committee (Internal Examiner) – Saif Barbouk (M.Sc.) – “Predictors of Response and Secondary Failure to Albiglutide Therapy in Type 2 Diabetic Patients” – Faculty of Pharmacy, 2021/2022
- 18) Computing and E-Learning Committee (a faculty committee)
- 19) Curricular Equivalence, Academic Advisement, Training, and Alumni Follow-Up Committee (a department committee)
- 20) Cultural, Social, and Sports Activities - Safety, Environment and Community Services Committee (a department committee)
- 21) Curriculum and Learning Resources Committee (a department committee)
- 22) ACPE Self-Assessment Report Steering Sub-Committee (a faculty committee)
- 23) Quality Assurance Committee (a faculty committee)
- 24) Graduate Studies Committee / Domain: Faculty (a faculty committee)
- 25) Graduate Studies Committee / Domain: Department (a department committee)

13. Professional and Scientific Meetings

Scientific Meetings Organized

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Participation in Scientific meetings

- 1) Congress of the European Association for Clinical Pharmacology and Therapeutics EACPT2025, Helsinki, Finland, 28 June – 1 July 2025

14. Participation in or organization of curricular and/or extra-curricular activities

- Curricular Activities



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- 1) Participating in a workshop entitled “OSCE Training Workshop”; conducted at Al-Zaytoonah University of Jordan on 5th December 2018 by Dr. Mamoon Aldeyab from the UK in collaboration with Ulster University, UK.
- Extra-Curricular Activities
 - 1) Organizing and Participating in a workshop entitled “Sequence, Synthesis, and Success: Translational Journey Through Oligonucleotide Therapeutics”; conducted at Al-Zaytoonah University of Jordan on 27th July 2025 by Dr. Mohammad Shadid, Vice President of Translational Sciences at Korro Bio, USA.
 - 2) Organizing and Participating in a workshop entitled “Projecting Human Pharmacokinetics in Drug Discovery and Development: Insider Perspective”; conducted at Al-Zaytoonah University of Jordan on 5th – 6th August 2024 by Dr. Ayman Fawzi El-Kattan, President of El-Kattan PharmADME Consulting Services, USA.

15. Publications

- Papers in refereed journals
 - 1) Wasan Al-Farhan, **Osama H. Abusara**, Mohammad Abu-Sini, Suhair Hikmat, Ola Tarawneh, Sameer Al-Kouz and Rania Hamed; *Development, Characterization, and Biological Evaluation of a Self-Healing Hydrogel Patch Loaded with Ciprofloxacin for Wound Dressings*; Polymers; 17 (19), 2686.
<https://doi.org/10.3390/polym17192686>
Research Article
 - 2) Ahmed K. Hijazi, Qusai M. Sarayrah, Abdelrahman W. Malkawi, Hassan Abul-Futouh, Ziyad A. Taha, Deeb Taher, **Osama H. Abusara**, Ahmad Q. Daraosheh, Ahmad A. L. Ahmad, Waleed M. Al-Momani; *Improved Syntheses, Crystal Structures Analysis, DFT Calculation, Anticancer and Antibacterial Properties of Some 4-(Benzylamino)benzoic Acid Derivatives*; ACS Omega; 10, 38, 43719–43734.
<https://doi.org/10.1021/acsomega.5c03898>
Research Article
 - 3) Rania Hamed, Islam Taha Hlalat, **Osama H. Abusara**, Nour Aboalhaija, Suhair Hikmat, Aya Hasan, Sameer Al-Kouz; *Synergistic hair growth effect of combined minoxidil and rosemary oil nanoemulsion-loaded in situ gels*; Journal of Drug Delivery Science and Technology; 114, Part A, 107412.
<https://doi.org/10.1016/j.jddst.2025.107412>
Research Article



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- 4) Arwa R. Althaher, Sawsan A. Oran, **Osama H. Abusara**, Muhammad N. Qattoum, Mirna W. Awadallah; *Cytotoxic potential and phytochemical profile of aqueous and acetone extracts of Micromeria fruticosa (L.) Druce*; Journal of Pharmacy & Pharmacognosy Research; 13 (5), 1587-1599.
https://doi.org/10.56499/jppres25.2431_13.5.1587
Research Article
- 5) Razan Ataallah Abuassa, Fatima F. Al-Jamal, **Osama H. Abusara**, Malek Zihlif, Ahmad A. Deeb, Mamoon M.D. Al-Rshaidat; *Evaluating the Antibacterial Properties of Deep-Sea Sponges Dactylospongia elegans, Stelletta fibrosa, and Haliclona manglaris from the Jordanian Gulf of Aqaba*; PeerJ; 13:e19735.
<https://doi.org/10.7717/peerj.19735>
Research Article
- 6) Hamza Abumansour[§], **Osama H. Abusara**[§], Mohammad Abu-Sini, Wiam Khalil, Ali I. M. Ibrahim, Amal M. Badawoud, Majed S. Al Yami, Dina H. Abulebdah, Shiraz Halloush; *Thionated levofloxacin derivative: Potential repurposing for cancer treatment and synergism with doxorubicin on doxorubicin-resistant lung cancer cells*; PLOS ONE; 20(6): e0324930.
<https://doi.org/10.1371/journal.pone.0324930>
 (§ = Authors equally contributed to the work)
Research Article
- 7) Alaa M. Hammad, Heba Syaj, **Osama H. Abusara**, Sawsan I. Khair, Rasha Debas, F.Scott Hall; *Anxiety-like behavior in rats during periods of abstinence following E-cigarette vapor and cigarette smoke exposure: Role of inflammatory cytokines and glutamate receptors*; Behavioural Brain Research; 488, 115600.
<https://doi.org/10.1016/j.bbr.2025.115600>
Research Article
- 8) Rima Hajjo, **Osama H. Abusara**, Dima A. Sabbah, Sanaa K. Bardaweel; *Advancing the Understanding and Management of Mpox: Insights into Epidemiology, Disease Pathways, Prevention, and Therapeutic Strategies*; BMC Infectious Diseases; 25, 529.
<https://doi.org/10.1186/s12879-025-10899-2>
Review
- 9) Rania Hamed, Rafa Aburayya, Ahlam Zaid Alkilani, Alaa M. Hammad, **Osama H. Abusara**, Hadeel Abo-Zour; *Thermo-Responsive Niosomal In Situ Gels for Topical Delivery of Prednisolone*; AAPS PharmSciTech; Volume 26, article number 116.
<https://doi.org/10.1208/s12249-025-03105-8>
Research Article



- 10) Sanaa K. Bardaweel, Rima Hajjo, **Osama H. Abusara**, Dima Sabbah, Dima Hattab, Asal S. Alabdullah, Zainab A. Rashid; *An Overview of the Potential Use of Selective Serotonin Reuptake Inhibitors (SSRIs) in Cancer Treatment*; Current Cancer Drug Targets; Accepted 26 March 2025; Available Online 23 June 2025.
<http://dx.doi.org/10.2174/0115680096372733250611114329>

Review

- 11) **Osama H. Abusara**, Ahmed S.A. Ali Agha, Sanaa K. Bardaweel; *Advancements and Innovations in Liquid Biopsy through Microfluidic Technology for Cancer Diagnosis*; Analyst; 150, 1711-1725.
<https://doi.org/10.1039/D5AN00105F>

Review

- 12) Nisrein Jaber, **Osama H. Abusara**, Ali I. M. Ibrahim, Mayyas Al-Remawi; *Development of a promising ϵ -polylysine and polyaspartic acid complex nanocarriers as iron supplement for overcoming gastrointestinal challenges*; Journal of Drug Delivery Science and Technology; 107, 106840.
<https://doi.org/10.1016/j.jddst.2025.106840>

Research Article

- 13) Sawsan I. Khadair, Lubna Al-Khareisha, **Osama H. Abusara**, Alaa M. Hammad, Alaa Khudair; *HLA-class II genes association with multiple sclerosis: An immunogenetic prediction among multiple sclerosis Jordanian patients*; PLOS ONE; 20(2): e0318824.
<https://doi.org/10.1371/journal.pone.0318824>

Research Article

- 14) Rima Hajjo, Dima A. Sabbah, Sanaa K. Bardaweel, **Osama H. Abusara**; *Epidemiology Analysis of COVID-19 Data and Associated Effects of Pandemic Containment Procedures, Viral Variants and Vaccines: Lessons Learned from Middle Eastern Jordan's Experience*; Advances in Public Health; Volume 2024, Article ID 2977631, 18 pages.
<https://doi.org/10.1155/adph/2977631>

Research Article

- 15) **Osama H. Abusara**, Alaa M. Hammad, Rasha Debas, Even Al-Shalabi, Mohammed Waleed, F. Scott Hall; *The inflammation and oxidative status of rat lung tissue following smoke/vapor exposure via E-cigarette, cigarette, and waterpipe*; Gene; 935, 149066.
<https://doi.org/10.1016/j.gene.2024.149066>

Research Article



- 16) Otrujja Alkhalidi, Samah Abusulieh, **Osama H. Abusara**, Suhair Sunoqrot; *Development of Mitoxantrone-Loaded Quercetin Nanoparticles for Breast Cancer Therapy with Potential for Synergism with Bioactive Natural Products*; International Journal of Pharmaceutics; 665, 124674.
<https://doi.org/10.1016/j.ijpharm.2024.124674>
Research Article
- 17) Alaa M. Hammad, **Osama H. Abusara**, Suhair Sunoqrot, Sawsan I. Khair, F. Scott Hall; *Sex Differences in Withdrawal-Induced Anxiety in Rats After Exposure to Tobacco Smoke*; Neuroscience Letters; 833, 137834.
<https://doi.org/10.1016/j.neulet.2024.137834>
Research Article
- 18) Hamza Abumansour[§], **Osama H. Abusara**[§], Wiam Khalil, Hassan Abul-Futouh, Ali I. M. Ibrahim, Mohammad K. Harb, Dina H. Abulebdah, Worood H. Ismail; *Biological evaluation of levofloxacin and its thionated derivatives: antioxidant activity, aldehyde dehydrogenase enzyme inhibition, and cytotoxicity on A549 cell line*; Naunyn-Schmiedeberg's Archives of Pharmacology; 397, 6963-6973.
<https://doi.org/10.1007/s00210-024-03075-x>
 (§ = Authors equally contributed to the work)
Research Article
- 19) Balqis A. Ikhmais, Alaa M. Hammad, **Osama H. Abusara**, Lama Hamadneh, Hamza Abumansour, Qasem M. Abdallah, Ali I. M. Ibrahim, Lina Elsalem, Mariam Awad, Rahaf Alshehada; *Investigating Carvedilol's Repurposing for the Treatment of Non-Small Cell Lung Cancer via Aldehyde Dehydrogenase Activity Modulation in the Presence of β -Adrenergic Agonists*; Current Issues in Molecular Biology; 45 (10), 7996-8012.
<https://doi.org/10.3390/cimb45100505>
Research Article
- 20) Suhair Sunoqrot, Samah Abusulieh, **Osama H. Abusara**; *Identifying synergistic combinations of Doxorubicin-Loaded polyquercetin nanoparticles and natural Products: Implications for breast cancer therapy*; International Journal of Pharmaceutics; 645, 123392.
<https://doi.org/10.1016/j.ijpharm.2023.123392>
Research Article
- 21) Hala H. Halawah, Nimer S. Alkhatib, Abdulaali R. Almutairi, Mohammad Saleh, Shiraz S. Halloush, Omar Rashdan, Lama Masadh, **Osama H. Abusara**, Ivo Abraham; *Cost-Efficiency Analysis and Expanded Treatment Access Modeling of Conversion to Rituximab Biosimilars from Reference Rituximab in Jordan*; Journal of Medical Economics; 26 (1), 835-842.
<https://doi.org/10.1080/13696998.2023.2226007>
Research Article



22) **Osama H. Abusara**, Samar Bishtawi, Walid Al-Qerem, Wassan Jarrar, Lubna Al-Khareisha, Sawsan I. Khdaif; *Pharmacists' knowledge, familiarity, and attitudes towards biosimilar drugs among practicing Jordanian pharmacists: A cross sectional study*; Journal of King Saud University – Science; 35 (6), 102767. <https://doi.org/10.1016/j.jksus.2023.102767>

Research Article

23) Malek Zihlif[§], **Osama H. Abusara**[§], Walid Al-Qerem, Mahmood Al-Ibadah, Tareq M. Mahafza, Fatima M. Al-Akhras and Naseem T. Mahafza; *CRHR1 polymorphism at rs242941, rs242940, and rs72834580: association of symptoms improvement with intranasal corticosteroids in allergic rhinitis Jordanian patients*; Drug Metabolism and Personalized Therapy; 38, 4, 331-338. <https://doi.org/10.1515/dmpt-2023-0014>

([§] = Authors equally contributed to the work)

Research Article

24) Worood H. Ismail[§], **Osama H. Abusara**[§], Balqis Ikhmais, Hassan Abul-Futouh, Suhair Sunoqrot, Ali I. M. Ibrahim; *Design, Synthesis, and Biological Activity of Coniferyl Aldehyde Derivatives as Potential Anticancer and Antioxidant Agents*; Jordan Journal of Pharmaceutical Sciences; 16 (2-Supplement 1), 368-380. <https://doi.org/10.35516/jjps.v16i2.1463>

([§] = Authors equally contributed to the work)

Research Article

25) **Osama H. Abusara**, Ali I. M. Ibrahim, Hamzah Issa, Alaa M. Hammad, Worood H. Ismail; *In Vitro Evaluation of ALDH1A3-Affinic Compounds on Breast and Prostate Cancer Cell Lines as Single Treatments and in Combination with Doxorubicin*; Current Issues in Molecular Biology; 45 (3), 2170-2181. <https://doi.org/10.3390/cimb45030139>

Research Article

26) Rima Hajjo, Dima A. Sabbah, **Osama H. Abusara**, Reham Kharmah, Sanaa Bardaweel; *Targeting Human Proteins for Antiviral Drug Discovery and Repurposing Efforts: A Focus on Protein Kinases*; Viruses; 15 (2), 568. <https://doi.org/10.3390/v15020568>

Review

27) Rima Hajjo, Dima A. Sabbah, **Osama H. Abusara**, Abdel Qader Al Bawab; *A Review of the Recent Advances in Alzheimer's Disease Research and the Utilization of Network Biology Approaches for Prioritizing Diagnostics and Therapeutics*; Diagnostics; 12 (12), 2975. <https://doi.org/10.3390/diagnostics12122975>

Review



- 28) Rania Hamed, Amani D Abu Kwiak, Yasmeen Al-Adhami, Alaa M Hammad, Rana Obaidat, **Osama H Abusara**, Rana Abu Huwajj; *Microemulsions as Lipid Nanosystems Loaded into Thermoresponsive In Situ Microgels for Local Ocular Delivery of Prednisolone*; *Pharmaceutics*; 14 (9), 1975.
<https://doi.org/10.3390/pharmaceutics14091975>
Research Article
- 29) Walid Al-Qerem, Abdel Qader Al Bawab, **Osama Abusara**, Nimer Alkhatib, Robert Horne; *Validation of the Arabic version of medication adherence report scale questionnaire and beliefs about medication -specific questionnaire: A factor analysis study*; *PLOS ONE*; 17 (4), e0266606.
<https://doi.org/10.1371/journal.pone.0266606>
Research Article
- 30) Abdel Qader Al Bawab, Walid Al-Qerem, **Osama Abusara**, Nimer Alkhatib, Maha Mansour, Robert Horne; *What Are the Factors Associated with Nonadherence to Medications in Patients with Chronic Diseases?*; *Healthcare*; 9 (9), 1237.
<https://doi.org/10.3390/healthcare9091237>
Research Article
- 31) Balqis Ikhmais, Alaa M Hammad, Walid Al-Qerem, **Osama H Abusara**, Jonathan Ling; *Conducting COVID-19-Related Research in Jordan: Are We Ready?*; *Disaster Medicine and Public Health Preparedness*; 16 (3), 967-974.
<https://doi.org/10.1017/dmp.2020.437>
Research Article
- 32) Suhair Sunoqrot, Eveen Al-Shalabi, Dima A. Sabbah, May Al-Majawleh, **Osama H. Abusara**; *Remote Teaching and Learning in a Pandemic: Reflections from Chemistry Instructors at a Pharmacy School in Jordan*; *Journal of Chemical Education*; 97 (9), 3129-3134.
<https://pubs.acs.org/doi/10.1021/acs.jchemed.0c00735>
Research Article
- 33) **Osama Haitham Abusara**, Sally Freeman, Harmesh Singh Aojula; *Pentapeptides for the treatment of small cell lung cancer: Optimisation by N^{ind}-alkyl modification of the tryptophan side chain*; *European Journal of Medicinal Chemistry*; 137, 221-232.
<https://doi.org/10.1016/j.ejmech.2017.05.053>
Research Article



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34) Shaun C Offerman[§], Manikandan Kadirvel[§], **Osama H Abusara[§]**, Jennifer L Bryant, Brian A Telfer, Gavin Brown, Sally Freeman, Anne White, Kaye J Williams, Harmesh S Aojula; *N-tert-Prenylation of the indole ring improves the cytotoxicity of a short antagonist G analogue against small cell lung cancer*; MedChemComm; 8 (3), 551-558.

<https://doi.org/10.1039/C6MD00691D>

([§] = Authors equally contributed to the work)

Research Article

- Conference Presentations

1) **Osama H. Abusara**, Hamza Abumansour; *The potential repurposing of levofloxacin derivatives for the treatment of small cell lung cancer*; 17th Congress of the European Association for Clinical Pharmacology and Therapeutics EACPT, European Journal of Clinical Pharmacology; 81 (Suppl 1), 1–63 (2025). (Helsinki, Finland, 2025).

<https://doi.org/10.1007/s00228-025-03859-x>