

Ali Ibrahim Mostafa Ibrahim

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Homepage:



1. Personal Data

Date of Birth: 16th of April, 1982

Nationality: Jordanian

2. Education

- Ph.D. (Medicinal Chemistry) 2017, University of Bradford, Bradford, West Yorkshire, England
- M.Sc. (Medicinal Chemistry) 2009, Jordan University of Science and Technology, Irbid, Irbid, Jordan
- B.Sc. (Pharmacy) 2005, Jordan University of Science and Technology, Irbid, Irbid, Jordan

3. Ph.D. Dissertation

Design, Synthesis and Biological Evaluation of Chemical Probes Incorporating Aldehyde Dehydrogenase (ALDH) Recognition Motifs and Fluorescence Properties, University of Bradford, Bradford, West Yorkshire, England.



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4. Employment

Academic Positions

- Associate Professor, Faculty of Pharmacy, Al Zytoonah University of Jordan, Amman. January 2023 - Now
- Assistant Professor, Faculty of Pharmacy, Al Zytoonah University of Jordan, Amman. January 2018 - January 2023
- Lecturer, Pharmacy College, Taif University, Taif, September 2011 – August 2014

Administrative Positions

- Vice head of the pharmacy department, October 2020 – September 2023

5. Research Interests

- Medicinal Chemistry, Drug Design, Cancer Research, Computational Chemistry, Fluorescent Probes, Organic Synthesis, Biosensors

6. Membership in Scientific Societies and Associations

- Jordan Pharmacists Association

7. Honors and Awards

Not Applicable

8. Fellowships and Scholarships

- PhD Scholarship from Al-Zaytoonah University of Jordan (2012 - 2015).

9. Teaching Experience

- *Graduate Courses*

Not Applicable

- *Undergraduate Courses*

1. Pharmaceutical Instrumental Analysis
2. Pharmaceutical Instrumental Analysis Laboratory
3. Phytochemistry
4. Medicinal Chemistry 1



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5. Medicinal Chemistry 2
6. Pharmacy Practice II
7. Pharmaceutical Organic Chemistry

10. Supervision of Graduate Research

- Master student. Thesis title: Design, Synthesis and Biological Evaluation of Novel Anthranilic Acid Derivatives as Anticancer Agents Targeting Tyrosine Kinases.

11. Grants

- PI in a funded project (Grant code: MPH/1/60/2021) from Scientific Research and Innovation Support granted in Dec/2021 until Dec/2023. Title: An Investigation of the Functional Roles and Cellular Levels of Aldehyde Dehydrogenase Enzymes with the Aid of Biosensors and Bioelectronics
- Co-author in a funded project (Grant code: MPH/1/55/2019) from Scientific Research and Innovation Support granted in Jan/2021 until Jan/2023. Title: Investigating the putative effects of beta-adrenergic receptor blocking drugs on the activity of aldehyde dehydrogenase (ALDH) in a panel of lung cancer cell lines.
- PI in a funded project from Al Zytoonah University of Jordan granted in April/2019 until Jan/2022. Title: Design, Synthesis and Biological Evaluation of Novel Recognition Motifs for Retinoic Acid Signaling Pathway with Potential Fluorescence Tracking for the controlling enzymes.
- Co-author in a funded project from Al Zytoonah University of Jordan granted in April/2019 until Jan/2022

12. Patents

- Not Applicable

13. Membership of Committees

- **National and International:**
Not Applicable
- **University:**
 - *The ACPE steering Committee, a Faculty committee (member).*
 - *The ACPE Committee, a Faculty committee (member).*
 - *The Committee of quality assurance, a Faculty committee (member).*
 - *The Committee of extracurricular, social and sport activities, a Faculty committee (member).*



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14. Professional and Scientific Meetings

Scientific Meetings Organized

Not Applicable

Participation in Scientific meetings

Not Applicable

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

- University's 10th Career Day on 24th of April, 2018.
- Career Day for 5th year students in March, 2018, in Al-Zaytoonah University of Jordan campus.
- Several medical days and public lectures performed in Al-Zaytoonah University of Jordan.

16. Publications

- Papers in refereed journals:
 1. Ikhmais, B.A.; Hammad, A.M.; Abusara, O.H.; Hamadneh, L.; Abumansour, H.; Abdallah, Q.M.; **Ibrahim, A.I.M.**; Elsalem, L.; Awad, M.; Alshehada, R. 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. *Curr. Issues Mol. Biol.* **2023**, *45*, 7996-8012. <https://doi.org/10.3390/cimb45100505>
 2. Ismail, W. H., Abusara, O. H., Ikhmais, B., Abul-Futouh, H., Sunoqrot, S., & **Ibrahim, A. I. M.** (2023). Design, Synthesis, and Biological Activity of Coniferyl Aldehyde Derivatives as Potential Anticancer and Antioxidant Agents. *Jordan Journal of Pharmaceutical Sciences*, *16*(2), 368–380. <https://doi.org/10.35516/jjps.v16i2.1463>
 3. Morral, J. & **Ibrahim, A.** & Traore, F. & Pors, K., (2023) "Dansyl linked solid phase resins as an educational tool to teach the concepts of high throughput screening and prodrugs.", *British Journal of Pharmacy* *8*(1). doi: <https://doi.org/10.5920/bjpharm.1045>.



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4. Abusara, O.H.; **Ibrahim, A.I.M.**; Issa, H.; Hammad, A.M.; Ismail, W.H. In Vitro Evaluation of ALDH1A3-Affinic Compounds on Breast and Prostate Cancer Cell Lines as Single Treatments and in Combination with Doxorubicin. *Curr. Issues Mol. Biol.* **2023**, *45*, 2170-2181. <https://doi.org/10.3390/cimb45030139>.
5. **Ibrahim, A.I.M.**, Abul-Futouh, H., Bourghli, L.M.S., Abu-Sini, M., Sunoqrot, S., Ikhmais, B., Jha, V., Sarayrah, Q., Abulebdah, D.H., Ismail, W.H. Design and Synthesis of Thionated Levofloxacin: Insights into a New Generation of Quinolones with Potential Therapeutic and Analytical Applications. *Curr. Issues Mol. Biol.* **2022**, *44*, 4626-4638.
6. Aiyappa-Maudsley R, Elsalem L, **Ibrahim AIM**, Pors K, Martin SG. In vitro radiosensitization of breast cancer with hypoxia-activated prodrugs. *J Cell Mol Med.* 2022;00:1-14. doi: 10.1111/jcmm.17486
7. **Ibrahim A.I.M.**, Batlle E, Sneha S, Jiménez R, Pequerul R, Parés X, Rüngeler T, Jha V, Tuccinardi T, Sadiq M, Frame F, Maitland NJ, Farrés J, Pors K. Expansion of the 4-(Diethylamino)benzaldehyde Scaffold to Explore the Impact on Aldehyde Dehydrogenase Activity and Antiproliferative Activity in Prostate Cancer. *J Med Chem.* 2022 Mar 10;65(5):3833-3848.
8. **Ibrahim, A.I.M.**, Balqis Ikhmais, Elisabet Batlle, Waed K. AbuHarb, Vibhu Jha, Khaled T. Jaradat, Rafael Jiménez, Raquel Pequerul, Xavier Parés, Jaume Farrés, and Klaus Pors. 2021. "Design, Synthesis, Biological Evaluation and In Silico Study of Benzyloxybenzaldehyde Derivatives as Selective ALDH1A3 Inhibitors" *Molecules* 26, no. 19: 5770.
9. Santos A. R. N. , Sheldrake H. M. , **Ibrahim A. I. M.** , Danta C. C. , Bonanni D, Daga M., Oliaro-Bosso S., Boschi, Lolli M. L. and Pors K. Exploration of [2 + 2 + 2] cyclootrimerisation methodology to prepare tetrahydroisoquinoline-based compounds with potential aldo–keto reductase 1C3 target affinity. *Med. Chem. Commun.*, 2019, **10**, 1476-1480.
10. **Ibrahim, A. I.**, Sadiq, M., Frame, F. M., Maitland, N. J., & Pors, K. Expression and Regulation of Aldehyde Dehydrogenases in Prostate Cancer, *Journal of Cancer Metastasis and Treatment*, 2018, 4, 1-17.
11. Wright E., Day H., **Ibrahim A.**, Kumar J., Boswell L., Huguin C., Stevenson C., Pors K. and Waller Z. (2016). Mitoxantrone and Analogues



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Bind and Stabilize i-Motif Forming DNA Sequences. *Scientific Reports*, 6: 39456. DOI: 10.1038/srep39456.

12. Eweas A., Maghrabi I. and **Ibrahim A.** Advances in molecular modeling and docking as a tool for modern drug discovery. *Der Pharma Chemica*, 2014, 6 (6), 211-228.

- Books and Book Chapters:

- Not Applicable

- Conference Presentations:

1. Elisabet Batlle Rocafort, Ali I. Ibrahim, Maria Sadiq, Sneha Smarakan, Vibhu Jha, Tiziano Tuccinardi, Fiona Frame, Norman Maitland, Rafael Jiménez Aguilar, Raquel Pequerul Pavón, Xavier Parés Casampera, Goreti Ribeiro Morais, Jaume Farrés Vicen, Klaus Pors. *N,N-diethylaminobenzaldehyde-based small molecules to probe aldehyde dehydrogenase as target in prostate cancer* [abstract]. AACR; Cancer Res 2022;82(12_Suppl):Abstract nr 1820.
2. **Ibrahim A.**, Sadiq M., Presa D., Ntafoulis J., Alkawi A., Frame A, Maitland N. J., Cournia Z., Loadman P. M., Moreb J, Pors K. *Synthesis and biologic evaluation of diethylbenzaldehyde analogues to probe functional activity of aldehyde dehydrogenase activity in cancer* [abstract]. AACR; Cancer Res 2018; 78 (13 Suppl):Abstract nr 1662.
3. Sadiq M., **Ibrahim A. I.**, Frame F., Allison S. J., Sutherland M., Phillips R. M., Maitland N. J., Pors K. *Probing the expression and function of aldehyde dehydrogenases in prostate cancer using ALDH-affinic compounds and siRNA* [abstract]. AACR; Cancer Res 2017; 77 (13 Suppl): Abstract nr 970. doi:10.1158/1538-7445.AM2017-970

- Reports

- Not Applicable