CURRICULUM VITAE

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Lama Abdelqader Mohd Hamadneh

Department of Pharmacy/School of Pharmacy

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1. Personal Data

Date of Birth: 31/10/1976
Nationality: Jordanian

2. Education

- **Ph.D. (Molecular Medicine), 2008, (CGPA 3.94)**
  Faculty of Medicine and Health Sciences. University Putra Malaysia, Serdang, Selangor, Malaysia.

- **M.Sc. (Medical Microbiology), 2003**
  Faculty of Medicine and Health Sciences. University Putra Malaysia, Serdang, Selangor, Malaysia.

- **B.Sc. (Pharmacy), 1999 (CGPA 3.75).**
  University of Jordan, Amman, Jordan

3. Ph.D. Dissertation

"Application of proteomics approaches in the identification of new markers and therapeutic targets for breast cancer"
University Putra Malaysia, Serdang, Selangor, Malaysia.

4. Employment

Academic Positions

- Associate Professor, Faculty of Pharmacy, Al-Zaytoonah University of Jodan, Jordan
  March 2019 to date
- Assistant Professor, Faculty of Pharmacy, Al-Zaytoonah University of Jodan, Jordan
  September 2008 to March 2019
- Research Assistant Faculty of Medicine and Health Sciences University Putra Malaysia, Serdang, Selangor, Malaysia.
  November 2003 to August 2008
- Graduate Research Assistant, Faculty of Medicine and Health Sciences University Putra Malaysia, Serdang, Selangor, Malaysia.
  December 2000- February 2003
- Instructor, Faculty of Pharmacy, Jordan University, Jordan
  October 1999- June 2000

Administrative Positions

- Vice Dean, Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Jordan
  October 2015 to date
- Chairman of Basic Sciences Department, Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Jordan
  October 2011-October 2012

5. Research Interests

Molecular and protein markers discovery for early diagnosis of diseases, treatment responses and resistance in different diseases including breast cancer and hyperlipidemia using flow cytometry and gene expression analysis
Identification of molecular and metabolic markers in toxicity models of known drugs like acetaminophen.
Molecular subtyping of Jordanian breast cancer patients. Molecular, metabolic and epigenetic changes in different breast cancer cell lines representing different molecular subtypes and correlation with patients' tissues towards precise medicine and personalized treatment.

6. Membership in Scientific Societies and Associations

Member of Jordan Pharmacists Association.
Member of European Association for Cancer Research, EACR.

7. Honors and Awards

- Silver Medal at UPM Invention and Research Exhibition (PRPI 2007) for project entitled: Calreticulin: A Potential Early Diagnostic Protein Marker for Breast Cancer.
- Bronze Medal at UPM Invention and Research Exhibition (2003) for project entitled: A Multidisciplinary Application of DNA Vaccines.
- Silver Medal at UPM Invention and Research Exhibition (2002) for project entitled: A Potential DNA Vaccine against *Vibrio cholerae*.

8. Fellowships and Scholarships

N/A

9. Teaching Experience

- ***Graduate Courses***

  Pharmaceutical Biotechnology

- ***Undergraduate Courses***

  Pharmaceutical Biotechnology
  Pharmaceutical Biochemistry
  Pharmaceutical Microbiology
  Immunology

10. Supervision of Graduate Research

1. Ameerah Abdel Qader Alfraihat thesis entitled: Distribution of Breast Cancer Molecular Subtypes among Jordanian Patients. Finished August 2015.
2. Nisreen Azmi Shenawi thesis entitled Molecular Characterization of the Antihyperlipidemic Activity of Novel Indole-carboxamides Series in Rats. Finished January 2016.
3. May Mohammad Al-Majawleh thesis entitled DNA Methylation Levels and the Effect on Gene Expression of Several Genes Involved in Breast Cancer Using PCR Array. Finished June 2016.
4. Luma Adel Abdel Samad, thesis entitled Biological Evaluation of the Antimicrobial and Antihyperlipidemic Activity of Novel 3,5-disubstitutedamido

– 1,2,4-thiadiazole and 2,5-disubstitutedamido – 1,3,4-thiadiazole. Finished February 2017.

5. Mohammad Ibrahim Alwahsh, thesis entitled Molecular and Metabolic Signatures Associated with Acute Paracetamol Multiple Doses Toxicity in Mice. Finished November 2017.
6. Lara Emad Al-Lakkis, thesis entitled Tamoxifen Resistance in Breast Cancer: Tracking the Changes in Lactate Dehydrogenase Gene Expression. Finished August 2018.
7. Rama Abu Arqoub, thesis entitled Tamoxifen resistance in MCF-7: tracking the changes in PI3K/AKT/PTEN signaling pathway and their role in glucose and glutamine metabolism during resistance development. Started October 2019
8. Mohammed Bahader, thesis entitled Tamoxifen Resistance and its Role in Migration and Invasion of an *in vitro* Cell Line Model at the Molecular Level. Started October 2019.

11. Grants

1. Distribution of Breast Cancer Molecular Subtypes among Jordanian Patients, 2012, Al-Zaytoonah University of Jordan, 96,000 JD.
2. The effect of endogenous medicinal plants on the gene expression of CYP450, 2014, Al-Zaytoonah University of Jordan. 51,000 JD
3. DNA Methylation of Different Breast Cancer Cell Lines and the Effect on Gene Expression in Response to Several Chemotherapeutic Agents, 2016, Al-Zaytoonah University of Jordan, 42,920 JD.
4. DNA Methylation and Gene Expression Changes in Doxorubicin-Taxane Treated Breast Cancer Cell Lines, Response and Resistance, 2018, Scientific Research Support Fund, Jordan, 83,870 JD.
5. Correlation between metabolic, genetic and epigenetic changes in tamoxifen resistant breast cancer cell line mcf-7 employing electrophoretic techniques, 2018, Al-Zaytoonah University of Jordan, 65,100 JD.
6. Pharmacological and toxicological effects of gold nanoparticles as targeted therapy in different breast cancer subtypes using molecular and epigenetic approaches; 2019, , Al-Zaytoonah University of Jordan, 45,000 JD

12. Patents

N/A

13. Membership of Committees

Al-Zaytoonah University of Jordan

Examination Committee of the following postgraduate students:

1. Internal examiner for Musaab Mahmoud Saada's Master thesis entitled: Pharmacophore-Based Screening and Identification of Novel Phosphoinositide 3-kinase (PI3Kα) Inhibitors; December 2014.
2. Internal examiner for Dania Mohammed Nazer Al Kabbani's Master thesis entitled: Synthesis and Biological Evaluation of Novel benzoylphenyl -2-Furamide Derivatives. May 2015.
3. Internal examiner for Yasmeen Azmi Elshennawi, Master thesis entitled: Synthesis of some New Amide Derivatives Containing Heterocyclic Moieties such as Thiazolidinone and Azetidinone and Study some of their Expected Antimicrobial activity, May 2016.
4. Internal examiner for Haneen Muneer Abu Zaeid, Master thesis entitled: Design, synthesis and *in vivo* Biological Evaluation of Imidazole-2 carboxamide Derivatives as Lipoprotein Lipase Activators, August 2016.
5. Internal examiner for Mohammed Hasan Abu Naja, Master thesis entitled: Mapping the Intensive Care Unit Environment and Health Care Workers for Methicillin Resistant *Staphylococcus aureus* Bacteria Iin Jamil Tutanji Hospital, Jordan, April 2017.
6. Internal examiner for Ayat Ahmed Issa Balasmeh, Master thesis entitled: Identification of Novel Genetic Variation on N-Acetyltransferase 2 gene (NAT2) with *In Silico* Functionality among Jordanian Population, May 2017.
7. Internal examiner for Marwa Mahmoud Jwaifel, Master thesis entitled: molecular Characterization of the Antihyperlipidemic Activity of Novel Nicotinic Acid-carboxamide Derivatives using Rats Animal Model, January 2018.
8. Internal examiner for Duaa Suleiman Abu Ghith Master thesis entitled: Novel Gold Nanocomposite for Wounds Healing in Rats: Effect of Nanoparticles' Shape and Surface Chemistry, January 2019.

Scientific Meetings Organized

- Member of the Organizing Committee of the Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference ZTIPC 2017, 29-30 November **2017**.

- Member of the Organizing Committee of the Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference 2015 (ZTIPC) held at Al- Zaytoonah University of Jordan, Amman, Jordan, 21-23 October **2015**.

Participation in Scientific meetings

- Poster Presentation at Genome Science 2018 held at Nottingham University, UK 4-5 September 2018.

- Poster Presentation and Session Moderator at Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference 2017 (ZTIPC) held at Al- Zaytoonah University of Jordan, Amman, Jordan, 29-30 November **2017**.

- ACPE certification workshop held at The University of Jordan, October **2017**

- Poster Presentation at EACR-AACR-SIC Special Conference on The Challenges of Optimizing Immuno and Targeted Therapies from Cancer Biology to the Clinic held in Florence, Italy 24 – 27 June **2017**.

- Oral Presentation and Session Moderator at Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference 2015 (ZTIPC) held at Al- Zaytoonah University of Jordan, Amman, Jordan, 21-23 October **2015**.

- Oral Presentation at the Bilateral Research Workshop between Faculty of Pharmacy, Al-Zaytoonah University of Jordan, and Faculty of Pharmacy, University of Szeged, Hungary held at Al- Zaytoonah University of Jordan, Amman, Jordan, 21 October **2014**.

- Oral Presentation at the 6th Conference on Scientific Research in Jordan held at Al- Zaytoonah University of Jordan, Amman, Jordan, 23 November **2013**.

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

- Judging committee member at Intel ISEF 2020, Amman, Jordan, Feb. **2020**
- Member of judging panel of Jubilee school graduation projects, 16th Apr. **2019**.
- Judging committee member at Intel ISEF 2019, Amman, Jordan, Feb. **2019.**
- Member of judging panel of Jubilee school graduation projects, 23rd Apr. **2018.**
- Judging committee member at Intel ISEF 2018, Amman, Jordan, Feb. **2018.**
- Reviewer of research fund applications submitted to Scientific Research Support Fund, Amman, Jordan, **2018.**
- Judging committee member at Intel ISEF 2017, Amman, Jordan, Feb. **2017.**
- Mentoring Jordanian school students presenting their projects at Intel 2016, Phoenix, Arizona, USA, May **2016**.

15. Publications

1. Shattat, G., Al-Qirim, T., Sheikha, G.A., Al-Hiari, Y., Sweidan, K., Al-Qirim, R., Hikmat, S., **Hamadneh, L**., Al-Kouz, S. *The Pharmacological effects of novel 5-fluoro-N-(9,10-dihydro-9,10- dioxoanthracen-8-yl)-1H-indole-2-carboxamide derivatives on plasma lipid profile of Triton-WR-1339-induced Wistar rats.* Journal of Enzyme Inhibition and Medicinal Chemistry. (2013) 28 (4), 863-869
2. Hamadneh I., Ahmad A.M., **Hamadneh L**. *Effect of heat treatment of HoBa2Cu3O 7-δ ceramics superconductor synthesized from nano-coprecipitated powders.* Modern Physics Letters B (2013) 27(16).
3. Shattat G.F. Abuskeika G.M. Al-Qirim T.M. Huwaitat, R. El-Huneidi, W. Abu Khalaf, R. Al-Hiari, Y.M. Jasim S.H. **Hamadaneh L**. *Novel pyrrole derivatives as potent lipid-lowering agents in Triton-WR-1339-induced hyperlipidemic rats*. Latin American Journal of Pharmacy (2015) 34 (6): 1258-1264.
4. Hamadneh I., Yaseen N., Abdallat Y., **Hamadneh L.**, Tarawneh O. *The Sintering Effect on the Phase Formation and Transport Current Properties of SmBa2Cu3O7− δ Ceramic Prepared from Nano-Coprecipitated Precursors.* Journal of Superconductivity and Novel Magnetism (2016) 29 (3), 829-834.
5. Zamanian M., **Hamadneh L.A.Q.**, Veerakumarasivam A., Rahman S.A., Shohaimi S., Rosli R. *Calreticulin mediates an invasive breast cancer phenotype through the transcriptional dysregulation of p53 and MAPK pathways.* Cancer Cell International (2016) 16 (1), 56.
6. Hammad S., Mahmoud H., **Hamadneh L.**, Elsherief A.M., Meindl-Beinker N., Kotb A.M. *Highlight report: pluripotent stem cells in translational research*. Archives of Toxicology, (2016) 1-2.
7. **Hamadneh L**, Al-Essa L, Hikmat S, Al-Qirim T, Abu Sheikha G, Al-Hiari Y, Azmy N, Shattat G. *N-(3-Benzoylphenyl)-1H-Indole-2-Carboxamide decreases triglyceride levels by down-regulation of Apoc3 gene expression in acute hyperlipidemic rat model*. Molecular and Cellular Biochemistry (2017) 431(1-2):133-138.
8. Jarrar Y.B., **Hamadneh L**., Naser W. *The frequency of vitamin K epoxide reductase complex-1639G>A genetic variant among healthy unrelated Jordanian volunteers.* Pharmacology online (2017) (1):106-112
9. **Hamadneh L**., Al-Majawleh M., Jarrar Y.B., Shraim S., Hasan M., Abu-Irmaileh B., *Culturing conditions highly affect DNA methylation and gene expression levels in MCF7 breast cancer cell line*; In Vitro Cellular & Developmental Biology – Animal, (2018) DOI:10.1007/s11626-018-0245.
10. Abu Sheikha G., Bkhaitan MM, Kalloush H., **Hamadneh L.,** Abu Khalaf R. Al-Qirim T, Al-Hiari Y. *Synthesis of novel benzimidazole-2-carboxamide derivatives and in vivo antihyperlipidemic activity evaluation*. Chemical and Pharmaceutical Bulletin (2018) 66 (4), 423–426.
11. AlWahsh M, Othman A., **Hamadneh L**., Telfah A., Lambert J., Hikmat S., Alassi A., Mohamed FZ., Hergenröder R., Al-Qirim T., Dooley S., Hammad S.. *Second Exposure to Acetaminophen Overdose is Associated with Liver Fibrosis in Mice*. EXCLI Journal (2019); 18:51-62.

12. **Hamadneh L.,** Sabbah, D. Hikmat S., Samad L., Hasan M., Al-Qirim T., Hamadneh I., Al-Dujaili A. *Hypolipidemic Effect of Novel 2,5-bis(4-hydroxybenzylidenamino)-1,3,4-thiadiazole as Potential Peroxisome Proliferation-Activated Receptor-α Agonist in Acute Hyperlipidemic Rat model* Molecular and Cellular Biochemistry (2019) doi:10.1007/s11010-019-03528-5.
13. Mahmoud N., Hikmat S., Abu Ghith D, Hajeer M, **Hamadneh L**, Qattan D, Khalil E. *Gold Nanoparticles Loaded into Polymeric Hydrogel for Wound Healing in Rats: Effect of Nanoparticles' Shape and Surface Modification*. International Journal of Pharmaceutics. (2019), 565:174-186.
14. **Hamadneh L.,** Hikmat S., , Al-Samad L., Huwaitat R., Sabbah D., Hamadneh I., Al-Dujaili A. *Synthesis, Characterization and Antimicrobial Activity of Novel Symmetrical and Unsymmetrical Thiadiazole Derivatives as Potential Carbonic Anhydrase Inhibitor in E. Coli*. Journal of Global Pharma Technology (2019), 11(2) (Suppl.):171-180.
15. Mahmoud NN, Abu-Dahab R**, Hamadneh LA**, Abuarqoub D, Jafar H, Khalil EA. *Insights into the Cellular Uptake, Cytotoxicity, and Cellular Death Modality of Phospholipid-Coated Gold Nanorods toward Breast Cancer Cell Lines*. Molecular pharmaceutics. (2019) 16(10):4149-64.
16. Mahmoud N, Al-Basha A, Hikmat S, **Hamadneh L,** Zaza R, Shriydeh Z, Khalil E. *Nanoparticles' Size and Chemical Modification have Crucial Role on the Interaction of Nano Gold with Brain: Extent of Accumulation and Toxicity*. Biomaterials Science. 2020.