

FATIMA HERSI

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EXPERIENCE

UNIVERSITY OF SHARJAH (RESEARCH ASSISTANT)

April 2016– present

Sharjah Institute for Medical and Health sciences

MINISTRY OF HEALTH (MEDICAL LAB TECHNOLOGIST/QUALITY CONTROL
COORDINATOR)

MARCH 2009– APRIL 2016

EDUCATION

UNIVERSITY OF SHARJAH

SEPTEMBER 2018 - PRESENT

COLLEGE OF MEDICINE

PHD. MOLECULAR MEDICINE & TRANSLATIONAL RESEARCH

ADVISOR: DR. HANY A. OMAR

UNIVERSITY PARIS DIDEROT /UNIVERSITY OF SHARJAH

JUNE 2014

COLLEGE OF MEDICINE

M.SC. MOLECULAR MEDICINE & TRANSLATIONAL RESEARCH (CGPA: 3.53)

UNIVERSITY OF SHARJAH

JANUARY 2008

COLLEGE OF HEALTH SCIENCES

B.SC. MEDICAL LABORATORIES TECHNOLOGY (CGPA: 3.94)

PUBLICATIONS

1. **Fatema Hersi**, Hany A. Omar, Raed A. Al-Qawasmeh, Zainab Ahmad, Areej M. Jaber, Dana M. Zaher, Taleb H. Al-Tel. Design and synthesis of new energy restriction mimetic agents: Potent anti-tumor activities of hybrid motifs of aminothiazoles and coumarins. *Scientific Reports*, 2020, Feb. 10:2893. [link](#)
2. Mohammed I.El-Gamal, Hany A. Omar, Mohammad H. Semreen, Israa A.Younes, Youmna Y.Zaghloul, Ayat E.Abbas, Iman G.Moussa, **Fatima Hersi**, Chang-Hyun Ohe, Antiproliferative activity of cycloalkanecarboxamide derivatives possessing sulfonate

or sulfamate moiety. *Bioorganic Chemistry*, February 2020, 103677. [link](#)

3. Mai F. Tolba, Hany A. Omar, **Fatima Hersi**, Ane C. F. Nunes, Ayman M. Noreddin. The impact of Catechol-O-methyl transferase knockdown on the cell proliferation of hormone-responsive cancers. *Molecular and Cellular Endocrinology*, 2019 May; 488: 79-88 [link](#)
4. Hany A. Omar, Ahmed T. El-Serafi, **Fatema Hersi**, El-Shaimaa A. Arafa, Dana M. Zaher, Mohamed Madkour, Hany H. Arab and Mai F. Tolba. Immune-Modulatory MicroRNAs and Cancer Immune Evasion. *The FEBS Journal*, 2019, Jul 15. ; 286 (18): 3540–3557 [link](#)
5. Vunnam Srinivasulu, Monther Khanfar, Hany A. Omar, Scott McN Sieburth, Anusha Sebastian, Dana M. Zaher, Farah Al-Marzooq, **Fatema Hersi**, Taleb H. Al-Tel. Sequencing [4+1]-Cycloaddition and Aza-Michael Addition Reactions: A Diastereoselective Cascade for the Rapid Access of Pyrido[2',1':2,3]/Thiazolo[2',3':2,3]imidazo[1,5-a]quinolone Scaffolds as Potential Antibacterial and Anticancer Motifs. *Journal of Organic Chemistry* 2019 Nov 15;84(22):14476-14486 [link](#)
6. Hany A. Omar, Dana M. Zaher, Vunnam Srinivasulu, **Fatema Hersi**, Hamadeh Tarazi, Taleb H Al-Tel. Design, synthesis and biological evaluation of new pyrrolidine carboxamide analogues as potential chemotherapeutic agents for hepatocellular carcinoma. *European journal of medicinal chemistry*, 2017 139, 804-814 [Link](#)
7. Abdel-Nasser El-Shorbagi, Mohamed ElNaggar, Hamadeh Tarazi, Sachin Chaudhary, Hajjaj Abdu-Allah, **Fatema Hersi**, Hany A.Omar. Bis-(5-substituted-2-thiono-1, 3, 5-thiadiazinan-3-yl) butane as a scaffold of anti-proliferative activity, blended by a multicomponent process. *Medicinal Chemistry Research* 2018, Vol. 27, Issue. 4, Pages 1103-1110 [link](#)
8. Raafat A El-Awady, **Fatema Hersi**, Hala Al-Tunaiji , Ekram M Saleh , Abdel-Hady A Abdel-Wahab, Amer Al Homssi, Mousa Suhail, Ahmed El-Serafi, and Taleb Al-Tel. Epigenetics and miRNA as predictive markers and targets for lung cancer chemotherapy. *Cancer Biology & Therapy* 2015. 16(7): 1056 – 1070 [link](#)
9. Raafat A El-Awady, **Fatema Hersi**, Hala Al-Tunaiji, Ekram M Saleh, Abdel-Hady A Abdel-Wahab, Amer Al Homssi, Mousa Suhail, Ahmed El-Serafi, and Taleb Al-Tel. P6.11. Epigenetics and miRNA expression as mediators of A549 lung cancer cells resistance to DNA damaging anticancer drugs. *Ann Oncol.* 2015 Mar;26 Suppl 2:ii30. doi: 10.1093/annonc/mdv095.8 [link](#)

SKILLS

- Inventory management, general lab organization and teaching lab skills to students and technicians.
- Training graduate and undergraduate students on advanced laboratory procedures such as tissue culture, flow cytometry, western blotting, and cytotoxicity assays.
- Maintenance and preservation of cancer and normal primary cell lines.

- Experience in Biochemical Assays (optimization, screening & inhibition studies), In-Vitro cell based assays, and molecular biology including Real time-PCR, Western blot, Enzyme-Linked Immunosorbent Assay– ELISA, Cell Cytotoxicity Assays (Sulphorhodamine-B, MTT, XTT), immunofluorescence, immunohistochemistry, and flow cytometry applications.
- Highly skilled in animal handling in a research setting including such as handling, restraint, blood sampling, injections, tumor inoculation, bioluminescence imaging using the IVIS imaging system.

EVENT PARTICIPATION

- 7th Pan Arab Human Genetics Conference January 2020
- The 7th Emirati-German Congress in Medicine and Dentistry 2019

HONORS & AWARDS

- Achieved the highest CGPA in my class (Batch 2008).
- University & Semester Honor Lists (2003-2007).
- Full academic merit master's scholarship (2012-2014)
- Awarded the Best Student Research Poster prize at the 9th Annual University Scientific Research Forum (2015)

CERTIFICATES & LICENSES

- Associate Member in the American Association for Cancer Research (AACR)
- HAAD certified (2012)
- Ministry of Health (MOH) License (2008)
- Participated in BLS for Healthcare Providers Program (2015)
- ICDL Certification (2009)
- IELTS with score of 7.5 (2010)