**JASMINE HANAFY HOLAIL**

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Date of Birth: 11/1/1986 Nationality: Egyptian- American

**OBJECTIVE**

Organized and detail-oriented individual with a strong scientific background in the field of Molecular Biochemistry and Pharmacology. Eager and enthusiastic to peruse my postgraduate studies at a highly reputable and eminent education institute.

**EDUCATION**

2022- Present  **Bristol University, Faculty of Health Sciences** Bristol, UK

Ph.D. candidate (Translational Health Sciences)

2008- 2011  **American University of Beirut, Faculty of Medicine** Beirut, Lebanon

Master of Science (Pharmacology and Therapeutics)

2003- 2008 **Alexandria University, Faculty of Pharmacy** Alexandria, Egypt

Bachelor’s degree in pharmacy and pharmaceutical Science

1991-2003 **El- Nasr Girls College** Alexandria, Egypt

Preliminary, middle, and high school

**WORK EXPERIENCE**

September 2015-present: Senior lecturer**, Alfaisal University, Faculty of Medicine, Riyadh, KSA**

* Responsible for teaching Molecular Biochemistry practical sessions for medical students including DNA isolation, PCR-RFLP, gel electrophoresis, Western blot, and ELISA techniques.
* Supervising and training Pharm D students on performing quantitative analytical techniques on body fluids such as titrimetry and spectrophotometry.
* Teaching lectures on Complementary and Alternative Medicine for 4th-year Pharm-D students.
* Conducting Problem Based Learning sessions for medical students.
* Member of team-based learning program for first-year medical students.
* Member of Curriculum Committee for the Pharm-D program.

Feb 2013-June 2015: Lecturer assistant, **Pharos University in Alexandria, Faculty of Physical therapy Alexandria, Egypt**

* Responsible for teaching biochemistry practical sessions and laboratory activities for 1st-year students.
* Assist in organizing the course syllabus and intended learning outcomes for Biochemistry and pharmacology courses.
* Responsible for evaluating students’ performance during the lab sessions, oral presentations, and assignments.

2008- 2011: Lab Demonstrator, **Beirut Arab University, Faculty of Science, Beirut**, **Lebanon**

* Responsible for teaching Molecular techniques and clinical biochemistry practical sessions for biochemistry students.
* Responsible for teaching biochemistry practical lessons and laboratory activities for 1st and 2nd-year Pharmacy students.
* Supervising and training students on quantitative and qualitative analytical techniques (identification and purity testing).
* Responsible for evaluating students’ performance during lab sessions and oral presentations.

**RESEARCH EXPERIENCE**

* Conducting research in the field of cellular and molecular organismal aging with a specific focus on cellular senescence. Ph.D. thesis project “ Role of Type A Lamins in Chemo Resistance: Inhibition by Sulfated Non-Anticoagulant Heparin (S-NACH)
* Co-investigator in two other projects:

“Anti-Cancer drug resistance classification based on signal transduction pathways in MCF7 sublines” and “Differential Gene Expression Signatures And Cellular Signaling Pathways of Lamin A/C Transcript Variants in MCF7 Cell Line By RNA Sequencing”

# Conducting research in the field of pharmacogenomics of drug-metabolizing enzymes, drug transporters, and drug target genes.

# Co-investigator in a running project entitled “The influence of VEFGA gene polymorphisms on the incidence of warfarin associated bleeding events in Saudi patients”.

# Master thesis entitled “The Influence of *CYP2D6* genetic polymorphisms on variability of tamoxifen metabolism in the Lebanese breast cancer population”.

# As a part of the thesis work, acquired a huge experience in patient’s recruiting, gathering, and organizing clinical data, collecting blood samples, performing DNA isolation, and genotyping techniques.

# Development of areversed-phase ion-pairing high-performance liquid chromatography technique employing solid-phase extraction with fluorescence detection to quantify tamoxifen (anti-estrogenic drug).

# **Grants**

2016; Internal Research Grant (IRG) Office of research- Alfaisal University- “Association of VKORC1 and CYP2C9 single-nucleotide polymorphisms with warfarin dose adjustment in Saudi patients. Drug metabolism and personalized therapy”.

**TECHNICAL SKILLS**

* Ran various complex analytical systems such as HPLC.
* Cell culture and cell viability assays.
* Extensive experience with RT-qPCR reagents and assays.
* Agarose gel electrophoresis.
* Sample preparation techniques including solid phase extraction (SPE) and liquid/liquid extraction.
* Perform Various DNA and RNA extraction from biological samples.
* UV spectrometry and fluorometry-based methods
* Basic knowledge in statistical software SPSS.

**Work SHOPS AND TRAINING**

June 2022 **Alfaisal University**

The art of writing multiple choices

February 2020 **Alfaisal University**

Medical Education and quality assurance

November 2019 **Alfaisal University**

Problem-based learning workshop

October 2018 **King Saud bin Abdulaziz University for Health Sciences**

Correlation & Regression Analysis (ANOVA)

March 2018 **Alfaisal University**

Saudi MED Competency Framework workshop

November 2017 **Alfaisal University**

Team-based learning workshops

April 3013 **Pharos University**

Academic advising workshops

June 2010 **American University of Beirut, Environmental Health & Safety Center**

Chemical and Biological lab safety training

July 2010 **American University of Beirut, Environmental Health & Safety Center**

Radiation safety training for users of unsealed radioactive materials in

research.

December 2010 **American University of Beirut**

CFX96 Real-time PCR workshop

Summer 2006 **Pharco Pharmaceuticals**

Completed 60 hours of training

July 2005 **Knowledge Academy**

Attended “Communications in the workplace” seminar

Attended “How to build your business plan for small business” seminar

**ADDITIONAL COURSES**

April 2012 **Goethe Institute, Alexandria**

Completed level A

June 2010 **Collaborative Institutional Training Initiative**

Completed Biomedical Research - Basic/Refresher, Basic Course (Online)

**CONFERENCES AND PRESENTATIONS**

* Presentations:

*Holail Y, Tfayli A, Habbal M.Z, Halawi R, El Saghir N, Salem Z, Shamseddine A, Bazarbachi A, Zgheib N.K*. The Influence of *CYP2D6* genetic polymorphisms on variability of tamoxifen metabolism in the Lebanese breast cancer population. Poster presented at “Research day 2011 organized by the standing committee on research exchange **(SCORE)** of the Lebanese medical students’ international committee **(LeMSIC)**.

* Conferences:
* **International Conference on Molecular Microbiology and Biotechnology**,August 2023, London UK
* **Pre-congress workshop on NGS-based diagnostics in rare disease and oncology**, November 2023, King Faisal Specialist Hospital and Research center, Riyadh-KSA
* **1st International Conference on Genomic Medicine,** November 2022, King Faisal Specialist Hospital and Research center, Riyadh-KSA
* **Introduction to Clinical Research,** September 2022, Alfaisal University, Riyadh-KSA
* **Pioneers in Medicine,** December 2018**,** Alfaisal University, Riyadh-KSA
* **Saudi International Medical Education Conference (SIMEC)** April 2018, Riyadh-KSA.
* **Mass Gatherings Medicine,** October 2017, Alfaisal University, Riyadh-KSA.
* **The International Conference on Genetics & Molecular Research,** May 2017, Dubai- UAE.
* **Saudi International Medical Education Conference (SIMEC)** April 2016, Alfaisal University, Riyadh-KSA. Participated as a judge on oral presentations and posters/E-posters competition.
* Attended the **44th Middle East Medical Assembly (MEMA)** May 2011, AUB, Beirut- Lebanon.

**PUBLICATIONS**

Khalil, M. I., Ali, M. M., Holail, J., & Houssein, M. (2023). Growth or death? Control of cell destiny by mTOR and autophagy pathways. *Progress in biophysics and molecular biology*, *185*, 39–55. <https://doi.org/10.1016/j.pbiomolbio.2023.10.002>

Lin Batha, Mohammad Azhar Aziz, Mahmoud Zhra, Jasmine Holail, Wedad S. Al-Qahtani, Rajaa Fakhoury, Ahmad Aljada. Differential Gene Expression Signatures and Cellular Signaling Pathways induced by Lamin A/C Transcript Variants in MCF7 Cell Line. Front. Biosci. (Landmark Ed) 2023, 28(6), 113. <https://doi.org/10.31083/j.fbl2806113>

Holail, J., Mobarak, R., Al-Ghamdi, B., Aljada, A., & Fakhoury, H. (2022). Association of *VKORC1* and *CYP2C9* single-nucleotide polymorphisms with warfarin dose adjustment in Saudi patients. *Drug metabolism and personalized therapy*, 10.1515/dmdi-2022-0108. Advance online publication. <https://doi.org/10.1515/dmdi-2022-0108>

Tfayli A, Zgheib N, Holail J, Habbal M-Z, Halawi R, El-Saghir N, Salem Z. The Influence of CYP2D6 Genetic Polymorphisms on Variability of Tamoxifen Metabolism in the Lebanese Breast Cancer Population. In: Thirty-Fourth Annual CTRC‐AACR San Antonio Breast Cancer Symposium. Vol. 71. San Antonio, Texas: American University of Beirut; 2011.

**SUMMARY SKILLS**

* **COMPUTER SKILLS:** MS Word, Excel, PowerPoint, Internet use.
* **LANGUAGES:** Fluentin English and Arabic with basic knowledge of French and German (writing, reading, and speaking).
* **SOFT SKILLS:** Communication, team building, organizational, and public speaking.

**INTERESTS AND HOBBIES**

* Sports: Yoga
* Artistic: Photography
* Cultural: Reading

**REFERENCES**

Professor Rajaa Fakhoury

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Alfaisal University

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