

## *Curriculum Vitae*

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# Wafaa S H Ramadan

Date of Birth: 29<sup>th</sup> June 1992

Place of Birth: Dubai, United Arab Emirates

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### **Current position**

Post-doctoral Research Associate, Research Institute for Medical and Health Sciences, University of Sharjah, Sharjah, United Arab Emirates

### **Education**

**September 2017- July 2021**

Ph.D. in Molecular Medicine and Translational Research dual-degree program between Lubeck University in Germany and University of Sharjah in United Arab Emirates

Subject: “The role of the histone acetyltransferases CBP and GCN5 in the response of cancer and normal breast cells to cellular stress”

**February 2015- January 2017**

M.Sc. in Molecular Medicine and Translational Research, College of Medicine, University of Sharjah, Sharjah, UAE

Subject: “Relationship between hormonal status, epigenetic markers and response of breast cells to chemotherapy”

**September 2010-May 2014**

B.Sc. in Biotechnology, College of Sciences, University of Sharjah, Sharjah, United Arab Emirates

### **Fellowship and Awards**

**December 2020 – August 2021**

Fellowship, Laboratory of Radiobiology and Experimental Radiation Oncology, University Medical Center Hamburg -Eppendorf (UKE), Hamburg, Germany

**2017-2021**

Ph.D. candidate & Graduate Research Assistant scholarship from University of Sharjah, Sharjah, United Arab Emirates

**2019**

L’Oréal UNESCO for Women in Science Middle East fellowship

**2018**

Best poster award in graduate student research forum, 12th Annual Scientific research forum, University of Sharjah, Sharjah, United Arab Emirates

## Publications

### a) Peer-reviewed

1. Zaher, D.M\*.; **Ramadan, W.S\***; El-Awady, R.; Omar, H.A.; Hersi, F.; Srinivasulu, V.; Hachim, I.Y.; Al-Marzooq, F.I.; Vazhappilly, C.G.; Merali, S.; Merali, C.; Soares, N.C.; Schilf, P.; Ibrahim, S.M.; Al-Tel, T.H. A Novel Benzopyrane Derivative Targeting Cancer Cell Metabolic and Survival Pathways. *Cancers* **2021**
2. El-Awady R, Salah E, Hamoudi R, **Ramadan W**, Mazitschek R, Nael M, Elokely K, Abou-Gharbia M, Childers W, Srinivas V, Aloum L, Menon V, Al-Tel T. Discovery of Novel Class of Histone Deacetylase Inhibitors as Anticancer Agents. *Bioorganic & Medicinal Chemistry* **2021**
3. **Ramadan WS**, Talaat I.M, Hachim M.Y, Lischka A, Gemoll T, El-Awady R. The impact of CBP expression in Estrogen Receptor-Positive breast cancer. *Clinical Epigenetics* **2021**
4. Rahman S, Mathew S, Nair P, **Ramadan WS**, Vazhappilly CG. Health benefits of cyanidin-3-glucoside as a potent modulator of Nrf2-mediated oxidative stress. *Inflammopharmacology*. **2021**
5. Vazhappilly CG, Amararathna M, Cyril AC, Linger R, Matar R, Merheb M, **Ramadan WS**, Radhakrishnan R, Rupasinghe HPV. Current methodologies to refine bioavailability, delivery, and therapeutic efficacy of plant flavonoids in cancer treatment. *J Nutr Biochem*. **2021**
6. **Ramadan W.S**, Saleh, E.M, Menon, V., Vazhappilly, C.G., Hajjaj H.M., El-Shorbagi A.A, Mansour, W.; El-Awady. Induction of DNA damage, apoptosis and cell cycle perturbation mediate cytotoxic activity of new 5-aminosalicylate–4-thiazolinone hybrid derivatives, *Biomedicine & Pharmacotherapy*, **2020**
7. **Ramadan W.S\***, Zaher D.M\*, Altaie A.M, Talaat I.M & Elmoselhi A. Potential Therapeutic Strategies for Lung and Breast Cancers through Understanding the Anti-Angiogenesis Resistance Mechanisms. *International journal of molecular sciences* **2020**
8. Vazhappilly, C.G, Ansari S.A, Al-Jaleeli R, Al-Azawi A.M, **Ramadan W.S**, Menon V, Hodeify R, Siddiqui S.S, Merheb M, Matar R, Radhakrishnan R. Role of Flavonoids in Thrombotic, Cardiovascular, and Inflammatory Diseases, *Inflammopharmacology* **2019**
9. **Ramadan, W.S.**; Vazhappilly, C.G.; Saleh, E.M.; Menon, V.; AlAzawi, A.M.; El-Serafi, A.T.; Mansour, W.; El-Awady, R. Interplay between Epigenetics, Expression of Estrogen Receptor- $\alpha$ , HER2/ERBB2 and Sensitivity of Triple Negative Breast Cancer Cells to Hormonal Therapy. *Cancers* **2019**
10. Al-Hrout, A.; Chaiboonchoe, A.; Khraiwesh, B.; Murali, C.; Baig, B.; El-Awady, R.; Tarazi, H.; Alzahmi, A.; Nelson, D. R.; Greish, Y. E.; **Ramadan, W.**; Salehi-Ashtiani, K.; Amin, A., Safranal induces DNA double-strand breakage and ER-stress-mediated cell death in hepatocellular carcinoma cells. *Scientific Reports* **2018**
11. Vazhappilly, C. G.; Saleh, E.; **Ramadan, W.**; Menon, V.; Al-Azawi, A. M.; Tarazi, H.; Abd-Allah, H.; El-Shorbagi, A. N.; El-Awady, R., Inhibition of SHP2 by new compounds induces differential effects on RAS/RAF/ERK and PI3K/AKT pathways in different cancer cell types. *Invest New Drugs* **2018**

- George V.C, Ansari S.A, Chelakkot V. S, Chelakkot A.L, Chelakkot C, Menon V, **Ramadan W**, Ethiraj K.R, El-Awady R, Mantso T, Mitsiogianni M, Panagiotidis M.I, Dellaire G, Rupasinghe H.V, DNA-dependent protein kinase: Epigenetic alterations and the role in genomic stability of cancer, DNA-dependent protein kinase: Epigenetic alterations and the role in genomic stability of cancer, *Mutation Research/Reviews in Mutation Research*, **2018**

## **b) Abstracts**

- Dana Zaher, **Wafaa Ramadan**, Raafat El-Awady, Hany Omar, Fatema Hersi, Vunnam Srinivasulu, Taleb Al-Tel. Discovery of a novel anticancer benzopyrane derivative with an effective multitarget mechanism of action. *Cancer Research* **2021**
- Ramadan WS**, Ayad MS, Hamoudi R, Laham A, Menon V, Lozon L, Abdu-Allah H, El-Shorbagi A, Tarazi H, El-Awady R. 5-aminosalicylate–4-thiazolinone hybrid derivatives: A potent modulator of DNA damage response and G2/M cell cycle arrest via ATM/ATR pathway and Cyclin-CDK complex. *MDPI* **2021**
- Altel T., El-Awady R., Omar H., **Ramadan W.**, Zaher D. Disrupting cancer dynamics by a novel pleiotropic benzopyrane derivative. *European Journal of Cancer*,**2020**
- Talaat I.M, **Ramadan W.S**, Hachim M.Y, Hachim I.Y, Yakout N.S, AlNusairat D.M, Abdel-Rahman W.M. Differential Expression of Insulin-Like Growth Factor-1 Receptor in Breast Cancer Subtypes: A Marker of Early Metastasis in HER-2 Subtype. *The FASEB Journal* **2020**

## **Grants**

- Raafat El-Awady, Mohammad El-Gamal, Hamadah Tarazi, **Wafaa Ramadan**. Targeting Tyrosyl-DNA phosphodiesterase 1 enzyme with natural products as potential approach for improving efficacy and safety of topoisomerase 1 inhibitors in cancer therapy. University of Sharjah (Research Funding Department), 2020-2022 (200,000 AED)

## **Conferences**

- Wafaa S Ramadan**, Maha Saber Ayad, Rifat Hamoudi, Amina Laham, Varsha Menon, Lama Lozon, Hajjaj Abdu-Allah, Abdel-Nasser El-Shorbagi, Hamadeh Tarazi, Raafat El-Awady. 5-aminosalicylate–4-thiazolinone hybrid derivatives: A potent modulator of DNA damage response and G2/M cell cycle arrest via ATM/ATR pathway and Cyclin-CDK complex. The 1st International Electronic Conference on Cancers: Exploiting Cancer Vulnerability by Targeting the DNA Damage Response. <https://sciforum.net/conference/IECC2021>
- Wafaa S Ramadan**, Samrein Ahmed, Raafat El-Awady. The role of histone acetyltransferase CBP in the response of breast cancer cells to genotoxic stress. 7th Emirati-German Congress in Medicine and Dentistry, Sharjah, UAE, November 2019. <https://www.sharjah.ac.ae/en/Media/Conferences/7egcm/Pages/default.aspx>

3. **Wafaa S Ramadan**, Raafat El-Awady. Biological evaluation of 5-aminosalicylate (5-ASA)–4-thiazolinone hybrid derivatives as promising chemotherapeutic agents for breast and cervical cancers. Student-Based Medical Research Week, University of Sharjah, Sharjah, UAE. February, 2019
4. **Wafaa S Ramadan**, Raafat El-Awady. Inhibition of SHP2 by new compounds induces differential effects on RAS/ERK and PI3K/AKT pathways in HeLa cells. 12th Annual scientific research forum, University of Sharjah, Sharjah, UAE. May, 2018.
5. **Wafaa S Ramadan**, Vazhappilly Cijo George, Ekram Saleh, Varsha Menon, Aya Mudhafar Al-Azawi, Hamadeh Tarazi, Hajjaj Abdullah, Raafat El-Awady. 5-aminosalicylate (5-asa)–4-thiazolinone hybrid derivatives inhibit protein tyrosine phosphatase SHP2 by suppressing RAS/MAPK pathway in hela cells. Fourth UAE Graduate Students Research Conference, American university of Sharjah, Sharjah, UAE. April, 2018. <https://uaegsrc.ae/>
6. **Wafaa S Ramadan**, Vazhappilly Cijo George, Ekram Saleh, Raafat El-Awady. Targeting epigenetic markers to enhance the response of breast cancer cells to hormonal therapy. UAE Cancer Congress, Breast Surgery international, Dubai, UAE. October, 2017. <http://www.uaecancercongress.ae/>
7. **Wafaa S Ramadan**, Ekram Saleh, Varsha Menon, Raafat El-Awady. Relationship between hormonal status, epigenetic markers and response of breast cancer cells to chemotherapy. Third UAE Graduate Students Research Conference, Khalifa University, Abu Dhabi, UAE. March, 2017. <https://uaegsrc.ae/>
8. **Wafaa S Ramadan**, Raafat El-Awady. Relationship between hormonal status, epigenetic markers and response of breast cancer cells to chemotherapy. 11th Annual scientific research forum, University of Sharjah, Sharjah, UAE. May, 2017.
9. **Wafaa S Ramadan**, Ekram Saleh, Varsha Menon, Raafat El-Awady. Relationship between hormonal status, epigenetic markers and response of breast cancer cells to chemotherapy. Student-Based Medical Research Week, University of Sharjah, Sharjah, UAE. April, 2017

### **Workshop participation**

1. Animal imaging system XRMS training, Sharjah, UAE, 2019
2. Optimization techniques for western blot and immunohistochemistry, Sharjah, UAE, 2019
3. Cell culture laboratory solutions, Sharjah, UAE, 2017
4. Real-Time PCR Applications, Sharjah, UAE, 2017
5. Researcher Connect Course, British Council, Abu Dhabi, UAE, 2016

## **Skills**

1. Experienced in normal and cancer cell culture.
2. Experienced in several techniques such as cytotoxic assays, real time-PCR, western blot, ELISA, immunofluorescence, immunohistochemistry, immunoprecipitation, proximity ligation assay, comet assay, CRISPR-CAS9 technology, cloning and flow cytometry applications.
3. Performed several procedures of sample preparation for mass spectrometry analysis.
4. Experienced in multiple in vitro assays such as assessment of apoptosis and cell viability.
5. Experienced in mice experiments (xenograft models).
6. Experienced in Graph Pad Prism, CalcuSyn, Image lab, FlowJo and Image J programs.
7. Participated in teaching and training of master, Ph.D. and undergraduate medical students and contributed to their projects.