

MLS Research and Publications 2021-2022:

No.	Publication Name	Category
1	Taneera J., W. El-Huneidi, M. Hamad , AK Mohammed, E. Elaraby, MY Hachim. 2021. Expression Profile of SARS-CoV-2 Host Receptors in Human Pancreatic Islets Revealed Upregulation of <i>ACE2</i> in Diabetic Donors. <i>Biology</i> , 9, 215; doi:10.3390/biology9080215	Research Article
2	Raina R, S. Unni, N. Rais, S. Haque, J. Shafarin, K. Bajbouj, M. Hamad , A. Hussain. 2021. Luteolin inhibits proliferation, triggers apoptosis and modulates Akt/mTOR and MAP kinase pathways in HeLa cells. <i>Oncology Letters</i> 21: 192, 2021. DOI: 10.3892/ol.2021.12452	Research Article
3	Muhammad JS, M. Guimei, MN Jayakumar, A. Janeeh, R. Abujabal, M. Eladl, A. Ranade, A. Ali, M. Hamad* . Estrogen-induced hypomethylation and overexpression of <i>YAP1</i> induces breast cancer cell growth and survival. <i>Neoplasia</i> 2021; 23(1): 68–79. https://doi.org/10.1016/j.neo.2020.11.002	Research Article
4	Raina R, N. Afroze, MK Sundaram, S. Haque, K. Bajbouj, M. Hamad , A. Hussain. 2021. Chrysin Inhibits Propagation of HeLa Cells by Attenuating Cell Survival and Inducing Apoptotic Pathways. <i>European Review for Medical and Pharmacological Sciences</i> 2021; 25: 2206-2220.	Research Article
5	Muhammad JS, NS Sharif-Askari, ZG Cui, M. Hamad , Rabih Halwani. 2021. SARS-CoV-2 infection-induced promoter hypomethylation as an epigenetic modulator of Heat Shock Protein A1L gene. <i>Frontiers in Genetics</i> 19;12:622271. DOI: 10.3389/fgene.2021.622271	Research Article
6	Taneera J., W. El-Huneidi, M. Hamad* . 2021. Expression of SARS-CoV-2 receptor “ACE2” in human pancreatic β cells. <i>Islets</i> https://doi.org/10.1080/19382014.2021.1954458	Review Article
7	Abi Zamer B., W. Abumustafa, M. Hamad , AA Maghazachi, JS Muhammad. 2021. Epigenetic Alterations and Genetic Mutations Mediating the Warburg Effect in Colorectal Carcinogenesis. <i>Biology</i> , 10, 847. https://doi.org/10.3390/biology10090847	Research Article
8	Ali A, J. Shafarin, R. Abu Jabal, N. Aljabi, JS Muhammad, H. Unnikannan, M. Hamad* . 2021. Ferritin heavy chain (FTH1) exerts significant anti-growth effects in breast cancer cells by inhibiting the expression of c-MYC. <i>FEBS Open Bio</i> . doi: 10.1002/2211-5463.13303. Online ahead of print	Research Article
9	Hamad M. , AK Mohammed, MY Hachim, D. Mukhopadhy, A. Khalique, A. Laham, S. Dhaiban, K. Bajbouj, J Taneera. 2021. Heme Oxygenase-1 (HMOX-1) and inhibitor of differentiation proteins (ID1, ID3) are key response mechanisms against iron-overload in pancreatic β -cells. <i>Molecular and Cellular Endocrinology</i> 538 (2021) 111462. https://doi.org/10.1016/j.mce.2021.111462	Research Article
10	Ali A, J. Shafarin, R. Abu Jabal, N. Aljabi, JS Muhammad, H. Unnikannan, M. Hamad* . 2021 Co-targeting BET bromodomain BRD4 and RAC1 suppresses growth, stemness and tumorigenesis by disrupting the c-MYC-G9a-FTH1axis and downregulation of HDAC1 in molecular subtypes of breast cancer. <i>Int. J. Biol. Sci.</i> 17(15): 4474-4492. doi: 10.7150/ijbs.62236	Research Article
11	Bajbouj K, L. Sahnoon, J. Shafarin, A. Al-Ali, JS Muhammad, A. Karim, SY Guraya, M. Hamad* . 2021. Vitamin D-mediated anti-cancer activity involves iron homeostatic balance disruption and oxidative stress induction in breast	Research Article

	cancer. <i>Front Cell Dev Biol</i> 9:766978. doi: 10.3389/fcell.2021.766978. eCollection 2021.	
12	Abumustafa W., B. Abi Zamer, M. Hamad , AA. Maghazachi, AA Khalil, JS Muhammad. 2021. Protein arginine N-methyltransferase 5 in colorectal carcinoma: insights into mechanisms of pathogenesis and therapeutic strategies. <i>Biomed Pharmacother.</i> 145:112368. doi: 10.1016/j.biopha.2021.112368.	Research Article
13	Al Bataineh MT, NC Soares, MH Semreen, S. Cacciatore, NR Dash, Mohamad Hamad, MK Mousa, J. Shafarin Abdul Salam, MF Al Gharaibeh, LF Zerbini, M. Hamad* . 2021. <i>Candida albicans</i> PPG1, a serine/threonine phosphatase, plays a vital role in central carbon metabolism under filament-inducing conditions: a multi-omics approach. <i>PLoS ONE</i> 16(12): e0259588. https://doi.org/10.1371/journal.pone.0259588	Research Article
14	Afroze A, S. Pramodh, J. Shafarin, K. Bajbouj, M. Hamad , MK Sundaram, S. Haque, A. Hussai. 2022. Fisetin deters cell proliferation, induces apoptosis, alleviates oxidative stress and inflammation in human cancer cells, Hela. <i>Int J Mol Sci.</i> 23(3):1707. doi: 10.3390/ijms23031707.	Research Article
15	Jalal Taneera, Amjad Ali, Mawieh Hamad . 2022. The Role of Estrogen Signaling in Cellular Iron Metabolism in Pancreatic B Cells. <i>Pancreas</i> 51: 121–127.	Review Article
16	Ali A, J. Taneera, H. Unnikannan, J. Shafarin, K. Bajbouj, JS Muhammad, A. Salehi, K. Menon, H. Hasan, S. Awadallah, M. Hamad* . 2022. Metformin enhances LDL-cholesterol uptake by suppressing the expression of the pro-protein convertase subtilisin/kexin type 9 (PCSK9) in liver cells. <i>Endocrine.</i> https://doi.org/10.1007/s12020-022-03022-x	Review Article
17	Karim A, K. Bajbouj, J. Shafarin, R. Qaisar, AC. Hall, M. Hamad* . 2022. Iron overload disrupts cellular iron homeostasis and induces apoptosis in chondrocytes. <i>Front. Cell Dev. Biol.</i> 10:821014. doi: 10.3389/fcell.2022.821014.	Research Article
18	Karim A, K. Bajbouj, JR. Qaisar, AC. Hall, M. Hamad* . 2022. The role of disrupted iron homeostasis in the development and progression of arthropathy. <i>Orthop Res.</i> 40(6):1243-1250. doi: 10.1002/jor.25323.	Research Article
19	Soliman SSM, EM El-Labbad, A. Abu-Qiyas, B. Fayed, AM Hamoda, AM Al-Rawi, S. Dakalbab, AA El-Shorbaji, M. Hamad , AS Ibrahim, MG Mohammad. 2022. Novel secreted peptides from <i>Rhizopus delemar</i> with immunomodulatory effects that enhance fungal pathogenesis. <i>Front Microbiol</i> 13:863133. doi: 10.3389/fmicb.2022.863133.	Research Article
20	Bajbouj K, A. Al-Ali, J. Shafarin, L. Sahnoon, A. Sawan, A. Shehada, W Elkhalifa, M Saber-Ayad, JS Muhammad, AB Elmoselhi, SY Guraya, M. Hamad . 2022. Vitamin D exerts significant anti-tumor effects by suppressing vasculogenic mimicry in breast cancer cells. <i>Front. Oncol.</i> 12:918340. doi: 10.3389/fonc.2022.918340	Research Article
21	Eslahi AV, Olfatifar M, Karim MR, AbuOdeh, R , Modirian, E, Houshmand, E, Abdoli, A, Samimi, R, Sotoodeh, S, Mahmoudi, R, Hajjalilo, E, Hashemipour, S. <i>Global incidence of helminthic contamination of vegetables, cucurbits and fruits: A systematic review and meta-analysis.</i> Food Control Volume 133, Part A (108582). (2022)	Review Article
22	Al-Yateem, N., Dias, J. M., Subu, M. A., Abraham, M. S., Abd El-Baky, F., AlMarzouqi, A., Azizu Rahman, S., Saifan, A. R., Mohammad, M. G. ,	Research Article

	Alrimawi, I., & Faris, M. (2021). Reflections on the transition to online teaching for health science education during the COVID-19 pandemic. <i>International journal of medical education</i> , 12, 154–159. https://doi.org/10.5116/ijme.610c.1580	
23	Eldohaji LM, Fayed B, Hamoda AM, Ershaid M, Abdin S, Alhamidi TB, Mohammad MG , Omar HA, Soliman SSM. Potential targeting of Hep3B liver cancer cells by lupeol isolated from <i>Avicennia marina</i> . <i>Arch Pharm (Weinheim)</i> . 2021 Sep;354(9):e2100120. doi: 10.1002/ardp.202100120. Epub 2021 Jun 4. PMID: 34085721.	Research Article
24	Soliman, S., El-Labbad, E. M., Abu-Qiyas, A., Fayed, B., Hamoda, A. M., Al-Rawi, A. M., Dakalbab, S., El-Shorbagi, A. A., Hamad, M., Ibrahim, A. S., & Mohammad, M. G. (2022). Novel Secreted Peptides From <i>Rhizopus arrhizus var. delemar</i> With Immunomodulatory Effects That Enhance Fungal Pathogenesis. <i>Frontiers in microbiology</i> , 13, 863133. https://doi.org/10.3389/fmicb.2022.863133	Research Article
25	Manandhar A, Srinivasulu V, Hamad M , Tarazi H, Omar H, Colussi DJ, Gordon J, Childers W, Klein ML, Al-Tel TH, Abou-Gharbia M, Elokely KM. Discovery of Novel Small-Molecule Inhibitors of SARS-CoV-2 Main Protease as Potential Leads for COVID-19 Treatment. <i>J Chem Inf Model</i> . 2021 Sep 27;61(9):4745-4757. doi: 10.1021/acs.jcim.1c00684. Epub 2021 Aug 17. PMID: 34403259.	Research Article
26	Khaiwa N, Maarouf NR, Darwish MH, Alhamad DWM, Sebastian A, Hamad M , Omar HA, Orive G, Al-Tel TH. Camptothecin's journey from discovery to WHO Essential Medicine: Fifty years of promise. <i>Eur J Med Chem</i> . 2021 Nov 5;223:113639. doi: 10.1016/j.ejmech.2021.113639. Epub 2021 Jun 17. PMID: 34175539.	Review Article
27	Hamad M , Al-Marzooq F, Srinivasulu V, Omar HA, Sulaiman A, Zaher DM, Orive G, Al-Tel TH. Antibacterial Activity of Small Molecules Which Eradicate Methicillin-Resistant <i>Staphylococcus aureus</i> Persisters. <i>Front Microbiol</i> . 2022 Feb 1;13:823394. doi: 10.3389/fmicb.2022.823394. PMID: 35178043; PMCID: PMC8846302.	Research Article