

## Department of Medical Laboratory Sciences

### Publications (2022/2023)

No.	Publication Name
1	Lara J. Bou Malhab <sup>1</sup> , Khuloud Bajbouj <sup>1,2</sup> , Naglaa G. Shehab <sup>3,4</sup> , Salma. M. Elayoty <sup>3</sup> , Jithna Sinoj <sup>1</sup> , Saryia Adra <sup>5</sup> , Jalal Taneera <sup>1,2</sup> , Mohamed Saleh <sup>1,5,6</sup> , <b>Wael M. Abdel-Rahman</b> <sup>1,7</sup> , Mohammad H. Semreen <sup>1,8</sup> , Kareem H Alzoubi <sup>1,8</sup> , Yasser Bustanji <sup>1,2,9</sup> , Waseem El-Huneidi <sup>1,2*</sup> and Eman Abu-Gharbieh. Potential Anticancer Properties of Calotropis procera: An Investigation on Breast and Colon Cancer Cells" <i>Heliyon</i> (Accepted May 2023)
2	Ranade, Anu V.; Khan, Amir Alib, Muhammad Tehsilb, Jose, Josemind; Ramachandran, Gopikad; Qaisar, Rizwana, Karim, Asimaa; Ahmad, Firdosa, <b>Abdel-Rahman, Wael M.</b> Pharmacological inhibition of endoplasmic reticulum stress mitigates testicular pathology in a mouse model of simulated microgravity. <i>Acta Astronautica</i> Volume (2023) 204:466 – 476.
3	Alnuaimi AR, Bottner J, Nair VA, Ali N, Alnakhli R, Dreyer E, Talaat IM, Busch H, Perner S, Kirfel J, Hamoudi R, <b>Abdel-Rahman WM*</b> (corresponding author). Immunohistochemical Expression Analysis of Caldesmon Isoforms in Colorectal Carcinoma Reveals Interesting Correlations with Tumor Characteristics. <i>Int J Mol Sci.</i> 2023 Jan 23;24(3):2275. doi: 10.3390/ijms24032275. PMID: 36768598.
4	Karim A, Qaisar R, Azeem M, Jose J, Ramachandran G, Ibrahim ZM, Elmoselhi A, Ahmad F, <b>Abdel-Rahman WM</b> , Ranade AV. Hindlimb unloading induces time-dependent disruption of testicular histology in mice. <i>Sci Rep.</i> 2022 Oct 18;12(1):17406. doi: 10.1038/s41598-022-22385-9.
5	Nair VA, Malhab LJB, <b>Abdel-Rahman WM*</b> (corresponding author). Characterization of the Molecular Alterations Induced by the Prolonged Exposure of Normal Colon Mucosa and Colon Cancer Cells to Low-Dose Bisphenol A. <i>Int J Mol Sci.</i> 2022 Oct 1;23(19):11620. doi: 10.3390/ijms231911620.
6	Alnuaimi AR, Nair VA, Malhab LJB, Abu-Gharbieh E, Ranade AV, Pintus G, Hamad M, Busch H, Kirfel J, Hamoudi R, <b>Abdel-Rahman WM*</b> (corresponding author). Emerging role of caldesmon in cancer: A potential biomarker for colorectal cancer and other cancers. <i>World J Gastrointest Oncol.</i> 2022 Sep 15;14(9):1637-1653. doi: 10.4251/wjgo.v14.i9.1637.
7	Harfil S, Abuodeh R, <b>Abdel-Rahman WM</b> , Salam KN, Mohamed HJ. Age and sex association with metabolic syndrome among adults in Sharjah, UAE. <i>Hamdan Med J</i> 2023;XX:XX-XX.
8	Gayathri A. Kanua, <b>Raed O. AbuOdeh</b> , and Ahmed A. Mohamed (2023) Chapter 21: Gold nanoparticles: A potential tool to enhance the immune response against viral infection- In <i>Entrepreneurship with Microorganisms</i> (Book). Reference 978-0-443-19049-0 B978-0-443-19049-0.00015-3. (Accepted)
9	Sondos Harfil, <b>Raed AbuOdeh</b> , Wael M Abdel-Rahman, K. N. S. Sirajudeen, Hamid Jan Jan Mohamed (2023). Age and Sex Association with Metabolic Syndrome among Adults in Sharjah, UAE. <i>Hamdan Med. Journal</i> (Accepted)
10	Ali ElBakri, Gayathri Arumughan, Dana Salahat, Nabila Hussein, Zeinab Ibrahim, Hayder Hasan, <b>Raed AbuOdeh</b> (2023). Comparison of various diagnostic techniques for the detection of Blastocystis spp. and its molecular characterization in farm animals in the United Arab Emirates. <i>Journal of Veterinary Research</i> 67; 93-98.
11	Gayathri A. Kanu; Javad B. M. Parambath; <b>Raed O. Abu Odeh</b> ; Ahmed A. Mohamed (2022). Gold nanoparticles mediated gene therapy. <i>Cancers</i> 14, 5366. <a href="https://doi.org/10.3390/cancers14215366">https://doi.org/10.3390/cancers14215366</a>

12	Javad B. M. Parambath, Gayathri A. Kanu, <b>Raed O. Abu Odeh</b> , Sanghyeon Kim, Changseok Han, and Ahmed A. Mohamed (2022). Single-Stranded DNA Recognition over Fluorescent Gold-Aryl Nanoparticles. <i>Colloids and Interfaces</i> . Volume 6(3), 42; doi:10.3390/colloids6030042
13	Aida V. Eslahi, Meysam Olfatifar, Robiul Karimc, <b>Raed AbuOdeh</b> , EhsanModirian, Elham Houshmand, AmirAbdoli, Rasoul Samimi, Simin Sotoodeh, Razzagh Mahmoudi, Elham Hajjalilo, Sima Hashemipour, Milad Badri (2022). Global incidence of helminthic contamination of vegetables, cucurbits and fruits: A systematic review and meta-analysis. <i>Food Control</i> Volume 133, Part A (108582).
14	<b>Ashraf GM*</b> . Neurochemical systems and signaling from molecules to networks. CRC Press, New York (2023) ISBN: 9780429265198 DOI: <a href="https://doi.org/10.1201/9780429265198">https://doi.org/10.1201/9780429265198</a>
15	Rahman MM, Tumpa MAA, Rahaman MS, Islam F, Sutradhar PR, Ahmed M, Alghamdi BS, Hafeez A, Alexiou A, Perveen A, <b>Ashraf GM*</b> . Emerging promise of therapeutic approaches targeting mitochondria in neurodegenerative disorders. <i>Current Neuropharmacology</i> (2023) 21(5):1081-1099. PMID: 36927428. [Impact Factor: 7.363]
16	Saleem A, Hameed I, Akhtar MF, <b>Ashraf GM</b> , Alghamdi BS, Rahman MH, Almashjary MN. Exploration of acute and chronic anti-inflammatory potential of <i>Quercus leucotrichophora</i> A. <i>Camus</i> extracts in Wistar rats: A mechanistic insight. <i>Frontiers in Pharmacology</i> (2023) 11(14):1002999. PMID: 37113751 [Impact Factor: 5.988]
17	Das SS, Jha NK, Jha SK, Verma PRP, <b>Ashraf GM*</b> , Singh SK. Neuroprotective role of quercetin against alpha-synuclein-associated hallmarks in Parkinson's disease. <i>Current Neuropharmacology</i> (2023) 21(7):1464-1466. PMID: 36545726 [Impact Factor: 7.363]
18	Javed H, Mohamed Fizur NM, Jha NK, <b>Ashraf GM</b> , Ojha S. Neuroprotective potential and underlying pharmacological mechanism of carvacrol for Alzheimer's and Parkinson's diseases. <i>Current Neuropharmacology</i> (2023) 21(6):1421-1432. PMID: 36545726 [Impact Factor: 7.363]
19	Atiya A, Shahidi H, Mohammad T, Sharaf SE, Abdulmonem WA, <b>Ashraf GM</b> , Elsbali AM, Alharethi SH, Alhumaydhi FA, Baesa SS, Rehan M, Shamsi A, Shahwan M. A virtual screening investigation to identify bioactive natural compounds as potential inhibitors of cyclin-dependent kinase 9. <i>Journal of Biomolecular Structure and Dynamics</i> (Accepted, in press) PMID: 36562191 [Impact Factor: 5.235]
20	Sahab Uddin M, Alghamdi BS, <b>Ashraf GM*</b> . Mitochondrial medicine for neurological disorders. <i>Current Neuropharmacology</i> (2023) 21(5):1024-1025. PMID: 37203188 [Impact Factor: 7.363]
21	Jafrin S, Aziz MA, Sajal M, Akter T, Das C, Akter T, Hussain MS, Millat MS, Uddin MS, Naznin NE, Reza MS, Maruf AA, Baesa SS, <b>Ashraf GM</b> , Islam MS. ZNF804A intronic variant rs1344706 and NGRN rs12807809 genetic polymorphisms and risk of schizophrenia in Bangladesh. <i>Human Gene</i> (2023) 36:201175. PMID: [Impact Factor: NA]
22	Tsagkaris C, Bilal M, Aktar I, Aboufandi Y, Tas A, Aborode AT, Suvvari TK, Ahmad S, Shkodina A, Phadke R, Emhamed MS, Baig AA, Alexiou A, Ashraf GM, Kamal MA. Cytokine storm and neuropathological alterations in patients with neurological manifestations of COVID-19. <i>Current Alzheimer Research</i> (Accepted, in press). PMID: 36089786 [Impact Factor: 3.040]
23	Atiya A, Alsayari A, Bin Muhsinah A, Almaghaslah D, Bilgrami AL, Abdulmonem WA, Alorfi NM, DasGupta D, <b>Ashraf GM</b> , Shamsi A, Shahwan M. Role of lisinopril in the therapeutic management of cardiovascular disease by targeting microtubule affinity regulating kinase 4: molecular docking and molecular dynamics simulation approaches. <i>Journal of Biomolecular Structure and Dynamics</i> (Accepted, in press) 14:1-7. PMID: 36376029 [Impact Factor: 5.235]

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25	Kabir ER, Chowdhury NM, Yasmin H, Kabir MT, Akter R, Perveen A, <b>Ashraf GM</b> , Akter S, Rahman MH, Sweilam SH. Unveiling the potential of polyphenols as anti-amyloid molecules in Alzheimer's disease. <i>Current Neuropharmacology</i> (2023) 21(4):787-807. PMID: 36221865 [Impact Factor: 7.708]
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27	Ahmad F, Ramamorthy S, Areeshi MY, <b>Ashraf GM</b> , Haque S. Isolated mitochondrial preparations and in organello assays: a powerful and relevant ex vivo tool for assessment of brain (patho)physiology. <i>Current Neuropharmacology</i> (2023) 21(6):1433-1449. PMID: 36872352 [Impact Factor: 7.363]
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31	<b>Ashraf GM*</b> , DasGupta D, Alam MZ, Baesa SS, Alghamdi BS, Anwar F, Alqurashi TMA, Sharaf SE, Al Abdulmonem W, Alyousef MA, Alhumaydhi FA, Shamsi A. Inhibition of microtubule affinity regulating kinase 4 by metformin: exploring the neuroprotective potential of antidiabetic drug through spectroscopic and computational approaches. <i>Molecules</i> (2022) 27(14):4652. PMID: 35889524 [Impact Factor: 4.927]
32	Latif K, Ullah A, Shkodina AD, Boiko DI, Rafique Z, Alghamdi BS, Alfaleh MA, <b>Ashraf GM*</b> . Drug reprofiling history and potential therapies against Parkinson's disease. <i>Frontiers in Pharmacology</i> (2022) 26;13:1028356. PMID: 36386233 [Impact Factor: 5.988]
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34	Ghozy S, El-Qushayri AE, Varney J, Kacimi SE, Bahbah EI, Morra ME, Shah J, Kallmes K, Abbas AS, Elfil M, Alghamdi BS, <b>Ashraf GM*</b> , Alhabbab R, Dmytriw AA. The prognostic value of neutrophil-to-lymphocyte ratio in patients with traumatic brain injury: a systematic review. <i>Frontiers in Neurology</i> (2022) 13:1021877. PMID: 36353130 [Impact Factor: 4.086]
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	Alharthy SA. Anticancer, cardio-protective and anti-inflammatory potential of natural-sources-derived phenolic acids. <i>Molecules</i> (2022) 27(21):7286 PMID: 36364110 [Impact Factor: 4.927]
37	Azmerin M, Hussain MS, Aziz MA, Barek MA, Begum M, Sen N, Rahman MA, Shahriar M, Baesa SS, <b>Ashraf GM</b> , Islam MS. TF and TCF4 gene polymorphisms are linked to autism spectrum disorder: a case-control study. <i>Journal of International Medical Research</i> (2022) 50(11):3000605221138492 PMID: 36448207 [Impact Factor: 1.573]
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39	<b>Mohammad MG</b> , Saeed R, Mohammed AK, et al. GDF15 plays a critical role in insulin secretion in INS-1 cells and human pancreatic islets. <i>Experimental Biology and Medicine.</i> 2023;248(4):339-349. doi:10.1177/15353702221146552
40	<b>Mohammad MG</b> , Ashmawy NS, Al-Rawi AM, Abu-Qiyas A, Hamoda AM, Hamdy R, et al. (2023) SARS-CoV-2-free residual proteins mediated phenotypic and metabolic changes in peripheral blood monocyte-derived macrophages in support of viral pathogenesis. <i>PLoS ONE</i> 18(1): e0280592. <a href="https://doi.org/10.1371/journal.pone.0280592">https://doi.org/10.1371/journal.pone.0280592</a>
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43	Muhammad JS, ElGhazali G, Shafarin J, <b>Mohammad MG</b> , Abu-Qiyas A, Hamad M. SARS-CoV-2-induced hypomethylation of the ferritin heavy chain (FTH1) gene underlies serum hyperferritinemia in severe COVID-19 patients. <i>Biochem Biophys Res Commun.</i> 2022 Nov 26;631:138-145. doi: 10.1016/j.bbrc.2022.09.083. Epub 2022 Sep 25. PMID: 36183555; PMCID: PMC9509293.
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45	Sameera M. A. Ismaeil, Rajeesh K. T. Parambil, Manal S. Kerab, <b>Ali M. K. ElBakri</b> and Ideisan I. Abu-Abdoun. Parasitological detection of <i>Theileria</i> parasites in livestock in various regions of the Northern Emirates of the United Arab Emirates. <i>Veterinary World</i> 2023, 16(5): 1071-1074.