

MLT Publications (January –December 2022)

S.No.	Publication	URL
1	Mir MM, Mir R, Alghamdi MAA, Wani JI, Elfaki I, Sabah ZU, Alhujaily M, Jeelani M, Marakala V, Alharthi MH, Al-Shahrani AM. Potential impact of <i>GCK</i> , <i>MIR-196A-2</i> and <i>MIR-423</i> gene abnormalities on the development and progression of type 2 diabetes mellitus in Asir and Tabuk regions of Saudi Arabia. <i>Mol Med Rep.</i> 2022 May;25(5):162. doi:	https://www.spandidos-publications.com/mmr/25/5/162
2	Mir R, Saeedi NH, Jalal MM, Altayar MA, Barnawi J, Hamadi A, Tayeb FJ, Alshammari SE, Mтираoui N, M Ali ME, Abuduhier FM, Ullah MF. Clinical Implications of Krüppel-like Transcription Factor KLF-14 and Certain Micro-RNA (miR-27a, miR-196a2, miR-423) Gene Variations as a Risk Factor in the Genetic Predisposition to PCOS. <i>J Pers Med.</i> 2022 Apr 6;12(4):586. doi: 10.3390/jpm12040586. PMID: 35455702; PMCID: PMC9030665.	https://www.mdpi.com/2075-4426/12/4/586
3	Mir R, Jha CK, Khullar N, Maqbool M, Dabla PK, Mathur S, Moustafa A, Faridi UA, Hamadi A, Mir MM, Abu Duhier FM. On the role of Inflammatory and cytokine biomarkers in the pathogenesis of Frailty Syndrome. <i>Endocr Metab Immune Disord Drug Targets.</i> 2022 Mar 4. doi: 10.2174/1871530322666220304220522. Epub ahead of print. PMID: 35249513.	https://www.eurekaselect.com/article/121373
4	Hashem S, Ali TA, Akhtar S, Nisar S, Sageena G, Ali S, Al-Mannai S, Therachiyil L, Mir R, Elfaki I, Mir MM, Jamal F, Masoodi T, Uddin S, Singh M, Haris M, Macha M, Bhat AA. Targeting cancer signaling pathways by natural products: Exploring promising anti-cancer agents. <i>Biomed Pharmacother.</i> 2022 Jun;150:113054. doi: 10.1016/j.biopha.2022.113054. Epub 2022 Apr 30. PMID: 35658225.	https://www.sciencedirect.com/science/article/pii/S0753332222004437?via%3Dihub
5	Mir MM, Mir R, Alghamdi MAA, Alsayed BA, Elfaki I, Al Bshabshe A, Farooq R, Alhujaily M, Alharthi MH, Alamri MMS, Al-Shahrani AM. Differential impact of the angiotensin-converting enzyme-2 (<i>ACE2</i> rs4343 G>A) and miR-196a2 rs11614913 C>T gene alterations in COVID-19 disease severity and mortality. <i>Exp Ther Med.</i> 2022 Jun;23(6):418. doi: 10.3892/etm.2022.11345. Epub 2022 Apr 29. PMID: 35601073; PMCID: PMC9117950.	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9117950/

6	Alsayed BA, Mir R. Severe COVID-19 Pneumonia and Genetic Susceptibility: A Case Report and Literature Review. <i>Cureus</i> . 2022 Mar 30;14(3):e23636. doi: 10.7759/cureus.23636. PMID: 35371838; PMCID: PMC8971094.	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8971094/
7	Fawzy S, Ahmed MM, Alsayed BA, Mir R, Amle D. IL-2 and IL-1 β Patient Immune Responses Are Critical Factors in SARS-CoV-2 Infection Outcomes. <i>J Pers Med</i> . 2022 Oct 17;12(10):1729. doi: 10.3390/jpm12101729. PMID: 36294868; PMCID: PMC9605386.	https://www.mdpi.com/2075-4426/12/10/1729
8	Hamadi A, Mir R, Mahzari A, Hakami A, Almotairi R, Dobie G, Hamdi F, Nahari MH, Alhefzi R, Alasseiri M, Hakami NY, Al Sadoun H, Al-Amer DM, Barnawi J, Madkhali HA. Molecular Determination of Vascular Endothelial Growth Factor, miRNA-423 Gene Abnormalities by Utilizing ARMS-PCR and Their Association with Fetal Hemoglobin Expression in the Patients with Sickle Cell Disease. <i>Curr Issues Mol Biol</i> . 2022 Jun 1;44(6):2569-2582. doi: 10.3390/cimb44060175. PMID: 35735616; PMCID: PMC9221959.	https://www.mdpi.com/1467-3045/44/6/175
9	Mir R, Elfaki I, Frah EAM, Alzahrani KJ, Mir MM, Banu S. Clinical Correlations of Lipid Profiles with the Age and Gender in the Coronary Artery Disease Patients: A Study of 3878 CAD Patients from India. <i>Endocr Metab Immune Disord Drug Targets</i> . 2022;22(4):440-452. doi: 10.2174/1871530322666220304110306. PMID: 35249509.	https://www.eurekaselect.com/article/121326
10	Alhujaily M, Mir MM, Mir R, Alghamdi MAA, Wani JI, Sabah ZU, Elfaki I, Alnour TMS, Jeelani M, Abomughaid MM, Alharbi SA. Clinical Implications of Glyoxalase I Gene Polymorphism and Elevated Levels of the Reactive Metabolite Methylglyoxal in the Susceptibility of Type 2 Diabetes Mellitus in the Patients from Asir and Tabuk Regions of Saudi Arabia. <i>J Pers Med</i> . 2022 Apr 15;12(4):639. doi: 10.3390/jpm12040639. PMID: 35455754; PMCID: PMC9030104.	https://www.mdpi.com/2075-4426/12/4/639
11	Mir R, Altayar MA, Hamadi A, Tayeb FJ, Saeedi NH, Jalal MM, Barnawi J, Alshammari SE, Mtiraoui N, Ali MEM, Abuduhier FM, Ullah MF. Molecular determination of progesterone receptor's PROGRINS allele (Alu insertion) and its association with the predisposition and susceptibility to polycystic ovary syndrome (PCOS). <i>Mamm Genome</i> . 2022 Sep;33(3):508-516. doi: 10.1007/s00335-021-09941-w. Epub 2022 Jan 8. PMID: 34997844.	https://link.springer.com/article/10.1007/s00335-021-09941-w

12	Guru SA, Sumi MP, Mir R, Beg MMA, Koner BC, Saxena A. Aberrant hydroxymethylation in promoter CpG regions of genes related to the cell cycle and apoptosis characterizes advanced chronic myeloid leukemia disease, poor imatinib respondents and poor survival. <i>BMC Cancer</i> . 2022 Apr 14;22(1):405. doi: 10.1186/s12885-022-09481-9. Erratum in: <i>BMC Cancer</i> . 2022 Apr 22;22(1):439. PMID: 35421941; PMCID: PMC9008925.	https://bmccancer.biomedcentral.com/articles/10.1186/s12885-022-09481-9
13	Mir R, Tayeb FJ, Barnawi J, Jalal MM, Saeedi NH, Hamadi A, Altayar MA, Alshammari SE, Mtiraoui N, Ali ME, Duhier FMA, Ullah MF. Biochemical Characterization and Molecular Determination of Estrogen Receptor- α (ESR1 PvuII-rs2234693 T>C) and MiRNA-146a (rs2910164 C>G) Polymorphic Gene Variations and Their Association with the Risk of Polycystic Ovary Syndrome. <i>Int J Environ Res Public Health</i> . 2022 Mar 6;19(5):3114. doi: 10.3390/ijerph19053114. PMID: 35270805; PMCID: PMC8910123.	https://www.mdpi.com/1660-4601/19/5/3114
14	Mir MM, Mir R, Alghamdi MAA, Wani JI, Sabah ZU, Jeelani M, Marakala V, Sohail SK, O'haj M, Alharthi MH, Alamri MMS. Differential Association of Selected Adipocytokines, Adiponectin, Leptin, Resistin, Visfatin and Chemerin, with the Pathogenesis and Progression of Type 2 Diabetes Mellitus (T2DM) in the Asir Region of Saudi Arabia: A Case Control Study. <i>J Pers Med</i> . 2022 May 1;12(5):735. doi: 10.3390/jpm12050735. PMID: 35629157; PMCID: PMC9143828.	https://www.mdpi.com/2075-4426/12/5/735
15	Yousif A, Mir R, Javid J, Barnawi J, Jalal MM, Altayar MA, Albalawi SD, Abuduhier FM. Clinical Utility of Amplification Refractory Mutation System-Based PCR and Mutation-Specific PCR for Precise and Rapid Genotyping of Angiotensin-Converting Enzyme 1 (ACE1-rs4646996 D>I) and Angiotensin-Converting Enzyme 2 (ACE2-rs4240157T>C) Gene Variations in Coronary Artery Disease and Their Strong Association with Its Disease Susceptibility and Progression. <i>Diagnostics (Basel)</i> . 2022 May 26;12(6):1321. doi: 10.3390/diagnostics12061321. PMID: 35741131; PMCID: PMC9222124.	https://www.mdpi.com/2075-4418/12/6/1321
16	Dabla PK, Sharma S, Dabas A, Tyagi V, Agrawal S, Jhamb U, Begos D, Upreti K, Mir R. Ionized Blood Magnesium in Sick Children: An Overlooked Electrolyte. <i>J Trop Pediatr</i> . 2022 Feb 3;68(2):fmac022. doi: 10.1093/tropej/fmac022. PMID: 35265997.	https://academic.oup.com/tropej/article/68/2/fmac022/6546055?login=true

17	Awatif M.E. Omran, Hatem A. Al-Aoh, Karma Albalawi, Fayez M. Saleh, Yasmene F. Alanazi, Hamza S. Al-Shehri, Humaira Parveen Biomimetic synthesis of Piper betle decorated nano copper oxide: Investigations of their antioxidant, antibacterial and apoptotic efficacy. Journal of Drug Delivery Science and Technology, Volume 77, 2022, 103811.	https://www.sciencedirect.com/science/article/abs/pii/S1773224722007225
18	Wedad Ali Mohammed Hamza, Sannaa Mohammed Ahmed Osman, and Eltayib Hassan Ahmed-Abakur. High frequency of bla _{qpc} gene in carbapenem-resistant clinical isolates, Khartoum, Sudan. BIOSCIENCE RESEARCH, 2022 19(1):536-541.	https://www.isisn.org/BR-19-1-2022/536-541-19(%201)2022BR22-44.pdf
19	Isam-Eldeen Itaype Ibrahim Bashir, AlaaEldin Yousri Muatsim Hamid, Mohamed Ahmed Ibrahim Holi and Eltayib H. Ahmed-Abakur.. "Isolation of potentially pathogenic bacteria from Musca domestica captured in hospitals and slaughterhouses, Khartoum state, Sudan." African Journal of Microbiology Research 16, no. 2 (2022): 76-81.	https://academicjournals.org/journal/AJMR/article-abstract/C4CE62868641
20	Ahmed-Abakur EH, Ullah MF, Elssaig EH, Alnour TMS. <i>In-silico</i> genomic landscape characterization and evolution of SARS-CoV-2 variants isolated in India shows significant drift with high frequency of mutations. Saudi J Biol Sci. 2022 May;29(5):3494-3501. doi: 10.1016/j.sjbs.2022.02.030. Epub 2022 Feb 25. PMID: 35233173; PMCID: PMC8875766.	https://www.sciencedirect.com/science/article/pii/S1319562X22001073?via%3Dihub
21	TMS Alnour, EH Ahmed-Abakur, EH Elssaig, FM Abuduhier, MF Ullah. Antimicrobial synergistic effects of dietary flavonoids rutin and quercetin in combination with antibiotics gentamicin and ceftriaxone against E. coli (MDR) and P. mirabilis (XDR) strains isolated from human infections: Implication for food-medicine interactions. Italian Journal of Food Science 2022; 34 (2), 34-42	https://www.itjfs.com/index.php/ijfs/article/view/2196
22	MF Ullah, A Ahmad, SH Bhat, FM Abuduhier, SK Mustafa, T Al-Qirim. Functional profiling of Achillea fragrantissima (a perennial edible herb) against human cancer cells and potential nutraceutical impact in neutralizing cell proliferation by interfering with VEGF and NFκ-B signaling pathways. Italian Journal of Food Science 2022; 34 (3), 35-47	https://www.itjfs.com/index.php/ijfs/article/view/2211
23	Mir R, Tayeb FJ, Barnawi J, Jalal MM, Saeedi NH, Hamadi A, Altayar MA, Alshammari SE, Mtiraoui N, Ali ME, Duhier FMA, Ullah MF. Biochemical Characterization and Molecular Determination of Estrogen Receptor-α (ESR1 P _{vu} ll-rs2234693 T>C) and MiRNA-146a (rs2910164 C>G) Polymorphic Gene Variations and	https://www.mdpi.com/1660-4601/19/5/3114

	Their Association with the Risk of Polycystic Ovary Syndrome. <i>International Journal of Environmental Research and Public Health</i> . 2022; 19(5):3114.	
24	Ullah MF, Ahmad A, Bhat SH, Abuduhier FM, Mustafa SK, Usmani S. Diet-derived small molecules (nutraceuticals) inhibit cellular proliferation by interfering with key oncogenic pathways: an overview of experimental evidence in cancer chemoprevention. <i>Biol Futur</i> . 2022 Mar;73(1):55-69.	https://link.springer.com/article/10.1007/s42977-022-00110-x
25	Akter, A., Islam, F., Bepary, S, Md. Al-Amin, Md. Zamshed Alam Begh, Md. Al Fahad Ul Islam, Ghulam Md Ashraf, Saleh Salem Baeesa, Ullah MF. CNS depressant activities of <i>Averrhoa carambola</i> leaves extract in thiopental-sodium model of Swiss albino mice: implication for neuro-modulatory properties. <i>Biologia</i> (2022) 77, 1337–1346.	https://link.springer.com/article/10.1007/s11756-022-01057-z
26	D Prakash, S Usmani, A Gupta, A Jafri, MF Ullah, S Wahab, M Arshad. Bioactive Extracts of <i>Ziziphus mauritiana</i> Induces Apoptosis in A549 Human Lung Epithelial Carcinoma Cells through the Generation of Reactive Oxygen Species. <i>Current Cancer Therapy Reviews</i> 2022;18 (1), 57-68	https://www.ingentaconnect.com/content/ben/cctr/2022/00000018/00000001/art00008
27	Kumar R, Usmani S, Kamal M, Singh B, Prakash D, Wahab S, Ullah MF. Pharmaco-characterization, Antioxidant, and Cytotoxic Activity of <i>Caesalpinia crista</i> Linn. and its Role in Prevention of Cell Proliferation in MG-63 Osteosarcoma Cell Lines. <i>Lat. Am. J. Pharm.</i> 41 (3): 580-8 (2022).	https://www.researchgate.net/publication/359267842_Pharmaco-characterization_Antioxidant_and_Cytotoxic_Activity_of_Caesalpinia_crista_Linn_and_its_Role_in_Prevention_of_Cell_Proliferation_in_MG-63_Osteosarcoma_Cell_Lines
28	Md. Mominur Rahman, Fahadul Islam, Anwar Parvez, Md. A.K. Azad, Ashraf GM, Ullah MF, Muniruddin Ahmed. Citrus limon L. (lemon) seed extract shows neuro-modulatory activity in an in vivo thiopental-sodium sleep model by reducing the sleep onset and enhancing the sleep duration. <i>J. Integr. Neurosci.</i> 2022 Jan 28;21(1):42.	https://www.imrpress.com/journal/JIN/21/1/10.31083/j.jin2101042
29	Mir R, Elfaki I, Javid J, Barnawi J, Altayar MA, Albalawi SO, Jalal MM, Tayeb FJ, Yousif A, Ullah MF, AbuDuhier FM. Genetic Determinants of Cardiovascular Disease: The Endothelial Nitric Oxide Synthase 3 (eNOS3), Krüppel-Like Factor-14 (KLF-14), Methylenetetrahydrofolate Reductase (MTHFR), MiRNAs27a and Their Association with the Predisposition and Susceptibility to Coronary Artery Disease. <i>Life</i> . 2022; 12(11):1905.	https://www.mdpi.com/2075-1729/12/11/1905

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34	Basmah M. Azad Allarakia I, Hattan Gattan , Bassam M. Al-Ahmadi, Rawan H. Abdeen, Mohammed. Bazaid, Abdullah F. Shater, Mohammed M. Jalal, Nizar H. Saeedi , Zuhair M. Mohammedsaleh , Malik A. Altayar , Maha Alreshidi , Abdulrahman S. Bazaid .Laboratory Biomarkers Associated with Severity and Mortality of COVID-19 . <i>Clinical Laboratory</i> . 1\2\2022	https://www.clin-lab-publications.com/article/4014
35	Abdullatif Bin Muhsinah , Muazzam Sherif Maqbul , Mater H. Mahnashi , Mohammed M. Jalal , Malik A. Altayar , Nizar H. Saeedi , Osama M. Alshehri , Ibrahim A. Shaikh , Aejaz Abdul Latif Khan , S.M. Shakeel Iqbal ., Kayamkani Abedulla Khan h, Areej Dawoud,Basheerahmed Abdulaziz Mannasaheb , Solafa Azzouz , Tasneem Mohammed. Antibacterial activity of <i>Illicium verum</i> essential oil against MRSA clinical isolates and determination of its phyto-chemical components. <i>Journal of King Saud University – Science</i> . 17/1/2022	https://www.sciencedirect.com/science/article/pii/S1018364721004626

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37	Arulprakasam Ajucarmelprecilla , Jhansi Pandi ,Ranjithkumar Dhandapani , Saikishore Ramanathan , Jayaprakash Chinnappan . Ragul Paramasivam ,Sathiamoorthi Thangavelu , Abdul-Kareem Mohammed Ghilan,Saad Ali S. Aljohani, Atif Abdulwahab A. Oyouni ,Abdullah Farasani , Malik A. Altayar , Hussam Awwadh E. Althagafi , Othman R. Alzahrani, Kaliannan Durairaj. Anupama Shrestha. In Silico Identification of Hub Genes as Observing Biomarkers for Gastric Cancer Metastasis. 30 April 2022. <i>Evidence-Based Complementary and Alternative Medicine</i>	https://www.hindawi.com/journals/ecam/2022/6316158/
38	Priya Subramani , Jaianand Kannaiyan, Saurabh Khare , Paulraj Balaji ,Atif Abdulwahab A. Oyouni, Saad Ali S. Aljohani, Mishal Olayan Alsulami, Osama M. Al-Amer, Othman R. Alzahrani, Malik A. Altayar. Toxicity, Safety, and Efficacy Studies on Mesenchymal Stem Cells Derived from Decidua basalis in Wistar Albino Rats by Intravenous and Subcutaneous Routes., Afrah Awadh Allah Alsulami IO and Veeramanikandan Veeramani. 6 September 2022. <i>Current Issues in Molecular Biology</i>	https://www.mdpi.com/1467-3045/44/9/277
39	Shankargouda Patila., Khalid J. Alzahrani, Hamsa Jameel Banjerb, Ibrahim Faisal Halawanib, Hosam Alzahrani, Malik A. Altayar, Sarah Albogamie, Robert Fua Angelesf, Ali Abdel-Halim Abdel-Azim Hassang, Shilpa Bhandih,k. A. Thirumal Raji.Receptor binding domain of SARS-CoV-2 from Wuhan strain to Omicron B.1.1.529 attributes increased affinity to variable structures of human ACE2. <i>Journal of Infection and Public Health</i> . 16\6\2022	https://www.sciencedirect.com/science/article/pii/S1876034122001502?via%3Dihub
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44	Seshadri, V.D., Kandasamy, K., Al Osaimi, M. et al. Stachytarpheta cayennensis-mediated copper nanoparticles shows anticancer activity in both in vitro and in vivo models. Appl Nanosci (2022).	https://link.springer.com/article/10.1007/s13204-022-02546-y
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49	Alatawi, E. A., & Alshabrm, F. M. (2022). Structural and Dynamic Insights into the W68L, L85P, and T87A Mutations of Mycobacterium tuberculosis Inducing Resistance to Pyrazinamide. <i>International Journal of Environmental Research and Public Health</i> , 19(3), 1615.	https://www.mdpi.com/1660-4601/19/3/1615
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