

LIST OF PUBLICATIONS

2019

1. Qamar, M. U., **G. Mustafa**, U. Qaisar, F. Azeem, M. Shahid, I. Manzoor, M. Qasim, T. Abbas and A. A. Shah. 2019. Molecular detection of *bla_{NDM}* and *bla_{VIM}* in clinically isolated multi-drug resistant *Escherichia coli* in Pakistan. Pakistan Journal of Pharmaceutical Sciences. 32(5(Suppl)):2305-2309
2. Bukhari, S. A., A. Yasmin, M. A. Zahoor, **G. Mustafa**, I. Sarfraz and A. Rasul. Secreted frizzled-related protein 4 and its implication in obesity and type-2 diabetes. 2019. International Union of Biochemistry and Molecular Biology Life (IUBMB Life). 1-10. <https://doi.org/10.1002/iub.2123>
3. Zia ud Den, N., **G. Mustafa**, S. A. Bukhari, F. Anjum, M. Qasim and M. Shahid. 2019. Enhancement of nutraceutical and antioxidant potential of sunflower hybrid seed varieties through chemical priming. Pakistan Journal of Pharmaceutical Sciences. 32(4(Suppl)):1901-1907.
4. Bukhari, S.A, M. Qasim, M.S. Masoud, Mahmood-ur-Rahman, H. Anwar, A. Waqas and **G. Mustafa***. 2019. Evaluation of medicinally important constituents of *Cotoneaster afghanicus* G.Klotz collected from Baluchistan region of Pakistan. Indian Journal of Pharmaceutical Sciences. 81(2):259-265. <http://doi.org/10.4172/pharmaceutical-sciences.1000506>
5. Bashir, S., S.A. Bukhari, I. Afzal, **G. Mustafa** and Mahmood-ur-Rahman. 2019. Molecular identification of stem rust resistance gene(s) from Pakistani wheat cultivars. International Journal of Agriculture and Biology. 21(5):1013–1018. <https://doi.org/10.17957/IJAB/15.0987>
6. Afzal, G., S. Ali, S. Kiran, **G. Mustafa**, H.I. Ahmad, S. Hameed, M. Nazir, R. Amjad, H.M. Arshad, T. Ruby and J. Majeed. 2019. Toxicological effect of ethanol on the development of chicken embryo in ova. Pure and Applied Biology. 8(1):882-892. <http://dx.doi.org/10.19045/bspab.2019.80030>
7. Bukhari, S.A., N. Farah, **G. Mustafa***, S. Mahmood and S.A.R. Naqvi. 2019. Magneto-priming improved nutraceutical potential and antimicrobial activity of *Momordica charantia* L. without affecting nutritive value. Applied Biochemistry and Biotechnology. 188(3):878-892. <https://doi.org/10.1007/s12010-019-02955-w>

2018

8. Bukhari, S.A., M. F. Tahir, N. Akhter, F. Anjum, H. Anwar and **G. Mustafa***. 2018. Phylogeny and comparative modeling of phytochelatin synthase from *Chlorella* sp. as an efficient bioagent for detoxification of heavy metals. Journal of Biological Regulators and Homeostatic Agents. 32(5):881-885.
9. Sharif S., S. Rashid, A. Atta, A. Irshad, M. Riaz, M. Shahid and **G. Mustafa***. 2018. Phenolics, tocopherols and fatty acid profiling of wild and commercial mushrooms from Pakistan. Journal of Biological Regulators & Homeostatic Agents. 32(4):863-867.

10. Sharif, S., A. Atta, T. Huma, A. A. Shah, G. Afzal, S. Rashid, M. Shahid, **G. Mustafa***. 2018. Anticancer, antithrombotic, antityrosinase, and anti- α -glucosidase activities of selected wild and commercial mushrooms from Pakistan. Food Science & Nutrition. 6(8):1-7. <https://doi.org/10.1002/fsn3.781>
11. Sajjad, R., R. Arif, A. A. Shah, I. Manzoor and **G. Mustafa***. 2018. Pathogenesis of Alzheimer's Disease: Role of Amyloid- β and Hyperphosphorylated Tau Protein. Indian Journal of Pharmaceutical Sciences. 80(4): 581–591. <http://doi.org/10.4172/pharmaceutical-sciences.1000397>
12. **Mustafa***, G., R. Arif, S. A. Bukhari, M. Ali, S. Sharif and A. Atta. 2018. Structural and functional annotation of citrate synthase from *Aspergillus niger* ANJ-120. Pakistan Journal of Pharmaceutical Sciences. 31(2(Suppl)): 709–717.
13. Aslam, M., Faiz-ul-Hassan Nasim, R. Ruhi, H. Murad, S. Ejaz, M.S Choudhary, **G. Mustafa**, M. Ashraf and J. Rehman. 2018. Isolation and Characteristics of Biotechnologically Important Antagonistic Thermophilic Bacteria from Rhizosphere of *Haloxylon salicornicum*. Polish Journal of Microbiology. 67(1): 49–58. <https://doi.org/10.5604/01.3001.0011.6142>

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14. **Mustafa, G***, M. J. Iqbal, M. Hassan and A. Jamil. 2017. Bioinformatics Characterization of Growth Differentiation Factor 11 of *Oryctolagus cuniculus*. Journal of the Chemical Society of Pakistan. 39(6): 1089-1095.
15. **Mustafa, G***, and A. Jamil. 2017. Comparative Analyses of Gene Clusters and Ks α Genes Involved in the Biosynthesis of Chromomycin A₃ and Mithramycin. Indian Journal of Pharmaceutical Sciences. 79(5): 707-714. <http://doi.org/10.4172/pharmaceutical-sciences.1000283>
16. Shaheen, S., **G. Mustafa** and A. Jamil. 2017. Hyperexpression of xylanase from 2-deoxyglucose (2-DG) resistant mutant of *Chaetomium thermophilum*. Journal of the Chemical Society of Pakistan. 39(4): 695-700.
17. Sharif, S., M. Shahid, A. Atta, M. Abbas and **G. Mustafa***. 2017. Comparative evaluation of antioxidant potentials of selected medicinal plants native to Pakistan. Oxidation Communications. 40(2): 657-674.
18. Ahmed, S., **G. Mustafa**, M. Arshad and M.I. Rajoka. 2017. Fungal biomass protein production from *Trichoderma harzianum* using rice polishing. BioMed Research International. 2017(Article ID 6232793): 9 pages. <https://doi.org/10.1155/2017/6232793>
19. **Mustafa, G***, R. Arif, A. Atta, S. Sharif and A. Jamil. 2017. Bioactive compounds from medicinal plants and their importance in drug discovery in Pakistan. Matrix Science Pharma. 1(1): 17-26. <http://doi.org/10.26480/msp.01.2017.17.26>
20. Atta, A., **G. Mustafa**, M. A. Sheikh, M. Shahid and H. Xiao. 2017. The biochemical significances of the proximate, mineral and phytochemical composition of selected vegetables from Pakistan. Matrix Science Pharma. 1(1): 06-09. <http://doi.org/10.26480/msp.01.2017.06.09>

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21. **Mustafa, G.**, S. Ahmed, N. Ahmed and A. Jamil. 2016. Phytochemical and antibacterial activity of some unexplored medicinal plants of Cholistan desert. Pakistan Journal of Botany. 48(5): 2057-2062.

22. Sharif, S., **G. Mustafa**, H. Munir, C. M. Weaver, Y. Jamil and M. Shahid. 2016. Proximate composition and micronutrient mineral profile of wild *Ganoderma lucidum* and four commercial exotic mushrooms by ICP-OES and LIBS. Journal of Food and Nutrition Research. 4(11): 703-708. <http://doi.org/10.12691/jfnr-4-11-1>
23. **Mustafa, G.**, S. Kousar, M.I. Rajoka and A. Jamil. 2016. Molecular cloning and comparative sequence analysis of fungal β -xylosidases. AMB Express. 6(1): 30. <https://doi.org/10.1186/s13568-016-0202-3>

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24. Jabeen, R., **G. Mustafa**, Zain-ul-Abdin, M.J. Iqbal and A. Jamil. 2014. Expression Profiling of Bioactive Genes from *Moringa oleifera*. Applied Biochemistry and Biotechnology. 174(2): 657-666. <https://doi.org/10.1007/s12010-014-1122-9>
25. **Mustafa, G.**, M. Asgher, Mehboob-ur-Rahman and A. Jamil. 2014. Citrate synthase gene comparison and use of RAPD genomic fingerprinting to study relatedness among different *Aspergillus* sp (912.1). The FASEB Journal. 28(1): Supplement 912.1.
26. **Mustafa, G.**, A. Tahir, M. Asgher, M. Rahman and A. Jamil. 2014. Comparative sequence analysis of citrate synthase and 18S ribosomal DNA from a wild and mutant strains of *Aspergillus niger* with various fungi. Bioinformation. 10(1): 1-7. <http://doi.org/10.6026/97320630010001>

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27. **Mustafa, G.** and A. Jamil. 2013. Cloning and phylogenetic analysis of an actin encoding DNA fragment from filamentous fungus *Trichoderma harzianum*. International Journal of Agriculture and Biology. 15(5): 1013-1016.
28. Kousar, S., **G. Mustafa** and A. Jamil. 2013. Microbial Xylosidases: Production and Biochemical Characterization (Mini-Review). Pakistan Journal of Life and Social Sciences. 11(2): 85-95.

Accepted

1. Afzal, G., **G. Mustafa**, S. Mushtaq and A. Jamil. DNA Barcodes of Southeast Asian Spiders of Wheat Agro-ecosystem. Pakistan Journal of Zoology.
2. Bukhari, S. A., **G. Mustafa**, S. Bashir, M. F. Tahir and F. Anjum. *In vitro* biological evaluation and DNA damage protection activities of *Cotoneaster afghanicus* G.Klotz and *Tamarix arceuthoides* Bunge extracts. Pakistan Journal of Botany.
3. Jabbir, F., **G. Mustafa** and M. Irfan. Contribution of bioinformatics approaches to explore the phylogeny and role of *Brca1* in breast cancer. Critical Reviews™ in Eukaryotic Gene Expression.

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Book(s):

- Ali, M., **G. Mustafa** and S.A. Bukhari. (2019). A Practical Manual of Experimental Biochemistry and Biotechnology (Series II). Sunder Publishers.
- Ali, M., S. Kamal, **G. Mustafa** and S.A. Bukhari. (2018). A Practical Manual of Experimental Biochemistry and Biotechnology (Series I). Sunder Publishers. (ISBN: 978-969-23317-0-8)