

PUBLICATIONS

Total no. of publications 32

No. of international publications in impact factor journals =29

Total Impact factor: 70.907

Total Citations: 224

1. Structural engineering and truncation of α -amylase from the hyperthermophilic archaeon *Methanocaldococcus jannaschii*. Shad, M., Sajjad, M., **Gardner, Q.A.**, Ahmad, S., Akhtar, M. W. *International Journal of Biological Macromolecules*, 226 (part 1)128387. Jan 2024. <https://doi.org/10.1016/j.ijbiomac.2023.128387> **Impact factor 8.2**
2. Toxicity of *Lysinibacillus sphaericus* Q001 S-layer protein against *Culex quinquefasciatus* and *Anopheles stephensi* larvae. Arshad, H., Waris, M. and ***Gardner, Q.A.** *Pakistan Journal of Zoology*, pp 1 -6. 2023. DOI: <https://dx.doi.org/10.17582/journal.pjz/20230406110459> **Impact factor 0.687** (*As a corresponding author).
3. Preparation and biological evaluation of radio conjugated cephradine complex for infection imaging. Zahoor, R., Munawar, A., Abbas, K., Shahid, A., **Gardner, Q.A.** and Khan, I. U. *Pakistan Journal of Pharmaceutical Sciences*, 36 (1): 181-189. 2023. doi.org/10.36721/PJPS.2023.36.1.REG.181-189.1 **Impact factor 0.863**
4. Structural-Functional Characterization of Cytochrome b in bc1 and b6 f Complexes along with Polymorphic Analysis. Shad, M., Usman, M., and ***Gardner, Q.A.** *Pakistan Journal of Zoology*, pp 1 -12. 2022. DOI: <https://dx.doi.org/10.17582/journal.pjz/20220428110433>. **Impact factor 0.687.** (Citations 4). (*As a corresponding author).
5. Proteomic profile mapping and differential expression of protein in ovarian cancer. Tauseef, A., Karim, A., Ahmad, G., **Gardner, Q. A.**, and Akhtar, M. W. *Sains Malaysiana*, 50 (12): 3667 – 3681. December 2021. <http://doi.org/10.17576/jsm-2021-5012-17> **Impact factor 1.009**
6. Characterization of venom components of two medically important scorpion species, *Hottentota tamulus* (Fabricius, 1798) and *Androctonus finitimus* (Pocock, 1897). Tahir, H. M., Tobassum, S., Ali, S., Zahid, M. T., Arshad, M., **Gardner, Q. A** and Ahsan, M. M. *Journal of the Kanas Entomological society*, 93 (3): 230-245. May 2021. <https://doi.org/10.2317/0022-8567-93.3.230> . **Impact factor 0.292.** (Citation 1)

7. Tubulin beta 2C chain (TBB2C), a potential marker of ovarian cancer, an insight from ovarian cancer proteome profile. Shahzadi, N., Safa, A., Tahira, T., **Gardner, Q. A.** and Akhtar, M.W. *ACS Omega (American Chemical Society Omega)*, **6**: 10506-10514. April 2021. <https://dx.doi.org/10.1021/acsomega.0c03262>. **Impact factor 3.512** (Citations 5)
8. Association of hypertension and BMI in polycystic ovarian syndrome in non-obese Asian women. Akram, T., Tauseef, A., **Gardner, Q. A.**, Qamar, M., Javed, S. and Fatima, S. A. *Annals of international medical and dental research*, **6** (5): 5 – 8. September 2020. [Doi:http://dx.doi.org/10.21276/aimdr](http://dx.doi.org/10.21276/aimdr) (International Non-impact factor journal)
9. Boronic Acid Functionalized Fibrous Cellulose for the Selective Enrichment of Glycopeptides. Sajid, M.S., Jabeen, F., Hussain, D., **Gardner, Q.A.**, Ashiq, M. N. and Najam-ul-Haq. M. *Journal of Separation Science*, **43** (7): 1348 – 1355. April 2020. <https://doi.org/10.1002/jssc.201900983> **Impact factor 2.878** (Citations 16)
10. Up-regulated expression of calcium dependent Annexin A6: A potential indicator of ovarian carcinoma. Noreen, S., **Gardner, Q.A.**, Fatima, I., Sadaf, S. and Akhtar, M. W. *Proteomics Clinical Applications*, **14**(2): e1900078: 1-9. March 2020. <https://doi.org/10.1002/prca.201900078>. **Impact factor 2.489**. (Citations 11)
11. Bioactivity-Guided Isolation and Identification of Anti-adipogenic Constituents from n-Butanol Fraction of *Cissus quadrangularis*. Toor, R. H., Khan, Z. N., Tariq, M., Tasadduq, R., **Gardner, Q.A.**, Zaman, W-U., Lian, J. B., Stein, J. L., Stein, G. S. and Shakoori A. R. *Critical Reviews™ in Eukaryotic Gene Expression*, **30** (6): 519- 541. Jan 2020. [DOI: 10.1615/CritRevEukaryotGeneExpr.2020036843](https://doi.org/10.1615/CritRevEukaryotGeneExpr.2020036843). **Impact factor 2.156**. (Citations 4)
12. Exploring the nature of inclusion bodies by MALDI mass spectrometry using recombinant proinsulin as a model protein. ***Gardner Q.A.**, Hassan, N., Hafeez, S., Arif, M., Akhtar, M. *International journal of Biological Macromolecules*. 139:647-653. October, 2019. doi: 10.1016/j.ijbiomac.2019.07.131. **Impact factor 5.162**. (***As a corresponding author**) (Citations 2)

13. Mechanistic studies on *Pyrobaculum calidifontis* porphobilinogen synthase (5-aminolevulinic acid dehydratase). Azim, N., **Gardner, Q.A.**, Rashid, N., Akhtar, M. *Bioorganic Chemistry*, 91:103117. **October, 2019**. doi: 10.1016/j.bioorg.2019.103117. **Impact factor 4.831** (Citations 2)
14. Effect of milking method, diet, and temperature on venom production in scorpions. Tobassum, S., Tahir, H. M., Zahid, M.T., **Gardner, Q.A.** and Ahsan, M. M. *Journal of Insect Science*, **18(4): 19; 1–7**. September, 2018. doi: [10.1093/jisesa/iev081](https://doi.org/10.1093/jisesa/iev081). **Impact factor 1.446** (Citations 21)
15. Preventing the N-terminal processing of human interferon α -2b and its chimeric derivatives expressed in *Escherichia coli*. Ahsan, F., **Gardner, Q. A***, Rashid, N., Towers, G. J., and Akhtar, M*. *Bioorganic Chemistry*, **76: 294–302**. 2018. (***As a corresponding author**). doi: [10.1016/j.bioorg.2017.11.016](https://doi.org/10.1016/j.bioorg.2017.11.016). **Impact factor 3.929**. (Citations 7)
16. Complete signal peptide of Tk1884, an α -amylase from *Thermococcus kodakarensis*, is not necessary for extracellular secretion of the enzyme by *Escherichia coli*. Muhammad, M. A., Falak, S., Rashid, N., Ahmed, N., **Gardner, Q.A.**, Tariq, A., and Akhtar, M. *Amylase*, 1: 75–81. 2017. [DOI 10.1515/amylase-2017-0007](https://doi.org/10.1515/amylase-2017-0007). (Citations 3)
17. Synthesis of novel 5- (aroylhydrazinocarbonyl)escitalopram as cholinesterase inhibitors. Nisa, M-U., Munawar, M.A., Iqbal, A., Ahmed, A., Ashraf, M., **Gardner, Q.A.**, Khan, M.A. *European Journal of Medicinal Chemistry*, **138: 396 – 406**. 2017. <https://doi.org/10.1016/j.ejmech.2017.06.036>. **Impact factor 4.816** (Citations 21)
18. Designing structural-motifs for the preparation of acylated proinsulin and their regiospecific conversion into insulin modified at Lys²⁹ (K²⁹). Ahmad, M., **Gardner, Q. A***, Rashid, N., and Akhtar, M*. *Bioorganic Chemistry*, **73: 147-153**. 2017. (***As a corresponding author**). <https://doi.org/10.1016/j.bioorg.2017.06.005> **Impact factor 3.929**. (Citations 2)
19. *Escherichia coli* Signal peptidase recognizes and cleaves archaeal signal sequence. Muhammad, M. A., Falak, S., Rashid, N., **Gardner, Q.A.**, Nasir Ahmad, Imanaka, T. and Akhtar M. *Biochemistry (Moscow)*, **82: 821 – 825**. 2017. [DOI: 10.1134/S0006297917070070](https://doi.org/10.1134/S0006297917070070). **Impact factor 1.724**. (Citations 4)

20. Pcal_1699, an extremely thermostable malate dehydrogenase from hyperthermophilic archaeon *Pyrobaculum calidifontis*. Gharib, G., Rashid, N., Bashir, Q., Gardner, Q. A., Akhtar, M. and Imanaka, T. *Extremophiles*, 20:57–67. 2016. [DOI: 10.1007/s00792-015-0797-3](https://doi.org/10.1007/s00792-015-0797-3). Impact factor 2.306 (Citations 24)
21. Hierarchy of N-acylation sites in human insulin studied by RP-HPLC and mass Spectrometry. Zain, H., Ahmad, M., Gardner, Q. A. and Akhtar, M. *Journal of Chemical Society of Pakistan*, 37 (6): 1260 - 1266. 2015. [http://www.jcsp.org.pk/PublishedVersion/10200472-7be8-4a1b-9e89-2cc40e06ce4aManuscript%20no%2024,%20Final%20Gally%20Proof%20of%2010832%20\(Muhammad%20Akhtar\).pdf](http://www.jcsp.org.pk/PublishedVersion/10200472-7be8-4a1b-9e89-2cc40e06ce4aManuscript%20no%2024,%20Final%20Gally%20Proof%20of%2010832%20(Muhammad%20Akhtar).pdf). Impact factor 0.345. (Citations 2)
22. Production of human interferon alpha-2b in *Escherichia coli* and removal of N-terminal methionine utilizing archaeal methionine aminopeptidase. Arif, A., Gardner, Q. A., Rashid, N. Akhtar, M. *Biologia*, 70: 982–987. 2015. <https://doi.org/10.1515/biolog-2015-0113> Impact factor 0.827 (Citations 8)
23. Characterization and bioassay of post-translationally modified interferon alpha-2b expressed in *Escherichia coli*. Ahsan, F., Arif, A., Mahmood, Nasir., Gardner, Q. A., Rashid, N. and Akhtar, M. *Journal of Biotechnology*, 184: 11 – 16. 2014. <https://doi.org/10.1016/j.jbiotec.2014.05.001> Impact factor 2.871 (Citations 17)
24. Studies on the regioselectivity and kinetics of the action of trypsin on proinsulin and its derivatives using mass spectrometry. Gardner, Q. A*, Younas, H. and Akhtar, M., *Biochimica et Biophysica Acta (Proteins and Proteomics)*, 1834: 182-190. 2013. (*As a corresponding author.) <https://doi.org/10.1016/j.bbapap.2012.09.004> Impact factor 3.191 (Citations 20)
25. Studies on the expression and processing of human proinsulin derivatives encoded by different DNA constructs. Aslam, F., Gardner, Q. A., Zain, H., Nadeem, M. S., Ali, M., Rashid, N. and Akhtar, M., *Biochimica Biophysica Acta (Proteins and Proteomics)*, 1834: 2116-2123. 2013. <https://doi.org/10.1016/j.bbapap.2013.07.002> Impact factor 3.191 (Citations 11)
26. TK1299, a highly thermostable NAD(P)H oxidase from *Thermococcus kodakaraensis* exhibiting higher enzymatic activity with NADPH. Nisar, M. A., Rashid, N., Bashir, Q., Gardner, Q. A., Shafiq, M. H. and Akhtar, M., *Journal of Bioscience and Bioengineering*, 116: 39-44. 2013. <https://doi.org/10.1016/j.jbiosc.2013.01.020> Impact factor 1.869 (Citations 14)

27. First cloning and characterization of aspartate aminotransferase from river buffalo (*Bubalus bubalis*). Nadeem, M. S., Rashid, N., Iqbal, M., **Gardner, Q. A.** and Akhtar, M., 2011. *Biologia*, **66**: 1202 -1210. [DOI: 10.2478/s11756-011-0125-z](https://doi.org/10.2478/s11756-011-0125-z) Impact factor 0.557 (Citations 6)
28. Conformational transmission in proinsulin and its derivatives: A study using H/D exchange. Younas, H¹., **Gardner, Q. A¹**., Rashid, N., Wright, J. N. and Akhtar, M., *Internatinal Journal of Mass Spectrometry*, **302**: 36-43. (¹Both authors contributed equally, and shared first authorship). 2011. <https://doi.org/10.1016/j.jjms.2010.07.020> Impact factor 2.549 (Citations 2)
29. Gene cloning and characterization of glycine oxidase from newly isolated *Bacillus subtilis* strain R5. Jamil, F., Rashid, N., **Gardner, Q. A.** and Akhtar, M. *Biologia*, **66**:1-7. 2011. [DOI: 10.2478/s11756-010-0141-4](https://doi.org/10.2478/s11756-010-0141-4) Impact factor 0.609. (Citations 1)
30. Mechanistic and stereochemical studies of glycine oxidase from *Bacillus subtilis* strain R5. Jamil, F., **Gardner, Q. A.**, Bashir, Q., Rashid, N. And Akhtar, M., *Biochemistry*, **49**: 7377-7383. 2010. [DOI: 10.1021/bi100553n](https://doi.org/10.1021/bi100553n) Impact factor 3.226 (Citations 10)
31. Inventory of 'slow exchanging' hydrogen atoms in human proinsulin and its derivatives: observations on the mass spectrometric analysis of deuterio-proteins in D(2)O. **Gardner, Q. A.**, Younas, H., Rashid, N., Wright, J. N. and Akhtar, M., *Biochimica et Biophysica Acta (Proteins and Proteomics)*, **1794**: 1224-1233. 2009. <https://doi.org/10.1016/j.bbapap.2009.03.007> Impact factor 2.48. (Citations 5).
32. Effect of pregnancy on thyroid profile reference ranges. **Gardner, Q. A.**, Mehmood, S., Younis, N., Aurangzeb, N. and Zaheer, F., *Pakistan Journal of Biochemistry and Molecular Biology*. (ISSN # 1681-4525), **36**: 120 – 127. 2003.