

RESEARCH PUBLICATIONS OF PROF DR SHAHIDA HASNAIN:

1. Hasnain, S. and Sheikh, K.H. 1976. Effects of flooding and drainage on the growth of *Capsicum annuum* L. *Biologia*, **22**, 89-106.
2. Sheikh, K.H and Hasnain, S. 1978. Iron and Manganese relations of flooded and drained plants of *Capsicum annuum* L. *Biologia*, **24**, 387-397.
3. Hasnain, S., Sammons, R., Roberts, I. and Thomas, C.M. 1985. Cloning and deletion analysis of genomic segment of *Bacillus subtilis* coding for *sdh A. B. C.* (Succinate dehydrogenase) and *gerE*(spore germination) loci. *Journal of General Microbiology*, **131**, 2269-2279. (now MICROBIOLOGY)
4. Hasnain, S., and Thomas, C.M. 1986. Construction of a novel gene bank of *Bacillus subtilis* using low copy number vector in *Escherichia coli*. *Journal of General Microbiology*, **132**, 1863-1874. (now MICROBIOLOGY)
5. Philips, M.K., Hederstedt, L., Hasnain, S., Rutberg, L. and Gust, J.R. 1987. Nucleotide sequence encoding the flavoprotein and iron sulfur protein subunits of the *Bacillus subtilis* PY79 succinate dehydrogenase complex. *Journal of Bacteriology*, **169**, 864-873.
6. Hasnain, S. 1988. Identification of the polypeptide products of *sdh* genes of *Bacillus subtilis* in *E.coli*. *Journal of Pure and Applied Sciences*, **7(2)**, 9-14.
7. Zafar, F., Bilal, R., Malik, K.A., and Hasnain, S. 1988. Nitrogen fixing *Enterobacter* associated with roots of *Cynodon dactylon*. *Science International*, **1(2)**, 139-142.
8. Hasnain, S., Naz, R. and Iqbal J. 1989. Modification of radiation damage with caffeine in *Vigna unguiculata*. Effects on germination, growth and anatomy of seedlings. *Journal of Pure and Applied Sciences*, **8**, 19-26.
9. Sherwani, S.K. and Hasnain, S. 1989. Mapping of *pdx* gene on *Bacillus subtilis* chromosome using PBSI mediated transduction. *Science International*, **1(4)**, 265-268.
10. Gull, J. and Hasnain, S. 1989. *Agrobacterium tumefaciens* from some woody plants of Pakistan. *Science International*, **1(5)**, 330-333.
11. Hasnain, S. and Taskeen, N. 1989. Characterization of salt tolerant bacteria isolated from the rhizosphere of *Leptochloa fusca* and, *Atriplex rhogodoides*. *Pakistan Journal of Pharmaceutical Science*, **2(2)**, 47-53.
12. Hasnain, S., Malik, A.N. and Taskeen, N. 1989. Role of salt tolerant bacteria isolated from rhizosphere of *Suaeda fruticosa* (Forsk) and *Chenchrus pennisetiformis* (Hochst) in salt tolerance status of *Helianthus annuus* (L.) seedlings. *Biologia*, **35(2)**, 217-224.
13. Hasnain, S., Mahmood, K. and Iqbal, J. 1989. Effects of industrial wastes on the germination, early growth and nucleic acids of *Zeay mays* varieties. *Pakistan Journal of Agricultural Research*, **10(4)**, 331-340.
14. Qazi, S.H. and Hasnain, S. 1990. *Agrobacterium tumefaciens* from *Punica granatum* and *Malus pumilo*. *Biologia*, **36(1)**, 99-104.
15. Sardar, S. and Hasnain, S. 1990. Polycyclic aromatic hydrocarbons degrading *Pseudomonas* sp. from oil waste. *Biologia*, **36(1)**, 105-108.
16. Sherwani, S.K. and Hasnain, S. 1990. Alkaliophilic, moderately halophilic, plasmid harboring Gram-negative bacteria from saline sodic soil. *Science International*, **2(2)**, 147-150.
17. Hasnain, S. and Sardar, S. 1990. Plasmid bearing Gram-negative cocci capable of degrading aromatic hydrocarbons. *Science International*, **2(3)**, 229-231.
18. Sabri, A.N. and Hasnain, S. 1990. Plasmid harbouring Gram-negative copper resistant bacteria from polluted waters. *Biologia*, **36(2)**, 63-66.
19. Sherwani, S.K. and Hasnain, S. 1990. Akaliophilic *Halococcus* sp. from athalassohaline habitat. *Biologia*, **36(2)**, 37-40.
20. Sabri, A.N., Malik, A.N. and Hasnain, S. 1990. Characterization of plasmid bearing Gram-negative nickel toxicity hindering and warning biosensors of industrial pollutants. *Science International*, **2(4)**, 339-340.

21. Sherwani, S.K. and Hasnain, S. 1990. Some biochemical and early growth responses of *Allium cepa* var. Phulkara and *Gossypium hirsutum* var. NIAB-78 to different industrial effluents. *Biologia*, **36(2)**, 53-62.
22. Hasnain, S. Qazi, S.H.A. and Mukhtar, Z. 1990. *Agrobacterium tumefaciens* from *Citrus sinensis* and *Ficus elastica*. Ti-plasmid mediated auxin independent growth of *Brassica oleracea* in tissue culture. *Science International*, **2(1)**, 51-56.
23. Hasnain, S., and Sabri, A.N. 1990. Gram-negative bacteria harbouring mercury resistant plasmid and some factors affecting conjugal plasmid transfer. *Pakistan Journal of Zoology*, **22(4)**, 335-343.
24. Hasnain, S. 1991. Molecular genetic analysis of *Bacillus subtilis* DNA fragment carrying *sdh* genes: expression and transcription of *B. subtilis* promoter in *E.coli*. *Journal of Pure and Applied Sciences*, **10(1)**, 13-19.
25. Hasnain, S. and Yasmin, I. 1991. Growth performance of three *Sorghum vulgare* varieties in industrial wastes. *Journal of pure and Applied Sciences*, **10(19)**, 21-28.
26. Hasnain, S., Samara, G. and Sherwani, S.K., 1991. Complementation of glutamine mutants by salt tolerant plasmid isolated from *Klebsiella pneumoniae* strain M5A1. *Karachi University Journal of Sciences*, **19(1&2)**, 121-129.
27. Hasnain, S. and Sabri, A.N. 1991. Gram-negative bacteria conferring plasmid mediated cobalt resistance and some factors affecting conjugal transfer of plasmid. *Science International*, **3(4)**, 303-306.
28. Qamar, F., Ali, F.A. and Hasnain, S. 1991. *Agrobacterium tumefaciens* affecting survival, histology and protein content of *Periplaneta americana* (Cockroach). *Punjab University Journal of Zoology*, **6**, 31-41.
29. Malik, A.N., Sabri, A.N. and Hasnain, S. 1991. Occurrence and transfer of iron-resistant plasmids in Gram-negative bacteria from industrial wastes. *Science International*, **3(4)**, 321-326.
30. Yasmin, S. and Hasnain, S. 1991. Cobalt-resistant pseudomonads from industrial effluents. *Punjab University Journal of Zoology*, **6**, 43-48.
31. Nasim, A. and Hasnain, S. 1991. Barium resistant Gram-negative bacteria from industrial effluents. *Science International*, **3(4)**, 311-314.
32. Hasnain, S. and Sherwani, S. 1991. Plasmid stability analysis under various levels of antibiotic (kanamycin) selection pressure. *Pakistan Journal of Zoology*, **23(4)**, 291-295.
33. Hasnain, S. and Yasmin, A. 1991. Salt tolerant *Agrobacterium tumefaciens* from *Terminalia urguna* and *Solanum xanthocarpum*. *Science International*, **3(2)**, 149-152.
34. Hasnain, S. and Yasmin, S. 1991. Mn-resistant Pseudomonads from industrial wastes of Kasoor. Bacterial inoculation enhancing *Triticum aestivum* seedling growth under Mn-stresses. *Science International*, **3(2)**, 153-158.
35. Yasmin, A., Tabassum, R. and Hasnain, S. 1991. *Agrobacterium tumefaciens* inoculation improving *Triticum aestivum* seedling growth under NaCl stresses. *Science International*, **3(4)**, 337-342.
36. Hasnain, S. and Sabri, A.N. 1992. Tin-resistant plasmid bearing bacterium from the wastes of MIRDC. *Journal of pure and Applied Sciences*, **11(2)**, 115-118.
37. Hasnain, S. and Maqbool, F. 1992. Salt tolerant bacteria from the histoplanes of halophytes: Bacterial inoculation improving *Triticum aestivum* seedling growth under NaCl stresses. *Biologia*, **37(2)**, 159-173.
38. Hasnain, S. and Sabri, A.N. 1992. Effects of temperatures and pH on conjugal transfer of zinc-resistant plasmids residing in Gram-negative bacteria isolated from industrial effluents. *Environmental Pollution*, **76(3)**, 245-249.
39. Jabeen, N. and Hasnain, S. 1992. Gram-negative aromatic hydrocarbons degrading bacteria from the industrial wastes. *Science International*, **4(2)**, 189-193.
40. Hasnain, S. and Yasmin, S. 1992. Cadmium resistant Pseudomonads stimulating *Triticum aestivum* seedling growth under Cd²⁺ stress. *Biologia*, **37(2)**, 187-195.
41. Qazi, S.H.A. and Hasnain, S. 1992. Comparative studies of *Agrobacterium tumefaciens* from different plants of Punjab. *Pakistan Journal of Zoology*, **24(4)**, 333-339.

42. Sabri, A.N., Yasmin, A. and Hasnain, S. 1992. Manifestation of bacterial role in stimulating *Triticum aestivum* seedling growth under stresses of lead acetate and lead nitrate. *Science International*,**4(2)**, 177-184.
43. Sabri, A.N. and Hasnain, S. 1992. Identification of hybrid plasmid capable of reverting spore forming ability of *Bacillus subtilis divIVA* mutant strain. *Pakistan Journal of Zoology*,**24(2)**, 321-327.
44. Sherwani, S.K and Hasnain, S. 1992. Effects of some environmental conditions on the plasmid stability in *recA* strain of *Escherichai coli* HB101. *Proceedings of Pakistan Congress of Zoology*.**Vol. 12**, 119-131.
45. Qazi, S.H.A. and Hasnain, S. 1992. Occurrence of *Halys dentatus* on trees infected with *Agrobacterium tumefaciens*. *Proceedings of Pakistan Congress of Zoology*,**Vol.12**, 635-642.
46. Hasnain, S., Qazi, S.H.A. and Mukhtar, Z. 1992. *Agrobacterium tumefaciens* from *Citrus limeta*: Expression of T-DNA in tissue culture. *Proceedings of Pakistan Congress of Zoology*, **Vol. , 12**, 643-653.
47. Sabri, A.N., Abbas, M. and Hasnain, S. 1993. Growth characteristics of mercury resistant pseudomonads from industrial effluents and some factors influencing conjugal transfer of a plasmid. *Science International*, **5(1)**, 51-58.
48. Hasnain, S., Yasmin, S. and Yasmin, A. 1993. Effects of lead resistant Pseudomonas on growth of *Triticum aestivum* seedling under lead stresses. *Environmental Pollution*,**81**, 179-184.
49. Yasmin, A. and Hasnain, S. 1993. Salt tolerant rhizoplane and histoplane bacteria from *Desmostachya bipinnata* and *Heleochochloa schnoites*. *Pakistan of Journal of Zoology*,**25(1)**, 27-35.
50. Sardar, S. and Hasnain, S. 1993. Aromatic hydrocarbons oxidizing bacteria from oil wastes. *Science International*,**5(2)**, 165-167.
51. Hasnain, S. and Tabassum, R. 1993. Evidence of bacterial role in improving salt tolerance status of 10 days old *Triticum aestivum* seedlings, *Biologia*,**38(1)**, 33-40.
52. Hasnain, S., Saleem, F. and Sabri, A.N. 1993. Lead resistant bacteria from industrial effluents and their effects on the *Triticum aestivum* seedling growth under lead stress. PP 193-205. In: *Biotechnology for Environment and Agriculture*, N. Ahmad, M. Ishaq; Y. Khan and F. Sammar (eds). Karachi University, CMG Publications.
53. Hasnain, S. and Yasmin, A. 1993. Stimulated growth of *Triticum aestivum* seedlings with salt tolerant rhizospheric bacteria and their Na⁺ relations under NaCl stresses. PP. 27-36. In: *Plants for the Environment*, M.S. Khan, M.A. Aziz Khan, S. Hadi-uz-Zaman, A. Aziz, (eds.) *Proc. 7th Bot. Conf. Dhaka*.
54. Hasnain, S., Zafar, F., Bilal, R. and Malik, K.A. 1993. Characterization of diazotrophs associated with the roots of *Leptochloa fusca* (L) Kunth. *Pertanika Journal of Tropical Agricultural Science*, **16(1)**, 17-24.
55. Yasmin, A. and Hasnain, S. 1993. Salt tolerant Pseudomonads exhibiting multiple resistances to heavy metals and antibiotics. *Proceedings of Pakistan Congress of Zoology*. **Vol. 13**, 293-305.
56. Sabri, A.N., Saleem, F. and Hasnain, S. 1993. Growth characteristics of lead resistant bacteria from polluted waters. *Proceedings of Pakistan Congress of Zoology*.**Vol. 13**, 279-292.
57. Hasnain, S. and Sabri, A.N. 1993. Gram-negative bacterium carrying transferable iron-resistant marker and some factors affecting transfer frequency. *Punjab University Journal of Zoology*, **8**, 45-52.
58. Sherwani, S.K and Hasnain, S. 1994. Molecular genetic studies on osmoregulation of halotolerant bacteria isolated from rhizosphere of *Suaeda fruticosa* and *Sporobolus pelidis*. *Current Development in Salinity and Drought Tolerance of Plants*. PP. 198-206. S.S.M. Naqvi, R. Ansari, T.J. Flower and A.R. Azmi, (eds). Plant Physiology Division, Atomic Energy Agricultural Research Centres, Tandojam.
59. Sabri, A.N. and Hasnain, S. 1994. Temperature effects on cell morphology of *divIVA*⁺and *divIVA*⁻ transformants of *Bacillus subtilis*. *Pakistan Journal of Zoology*, **26(2)**, 149-161.

60. Sabri, A.N. and Hasnain, S. 1994. Manganese resistant bacterium from polluted water: Some environmental factors influencing conjugal transfer of Mn-resistant plasmid. *Punjab University Journal of Zoology*, **9**, 45-51.
61. Sultan, S. and Hasnain, S. 1994. Conjugal transfer of chromium resistant plasmids residing in Pseudomonads. *Pakistan Journal of Zoology*, **26(3)**, 219-226.
62. Mukhtar, C.Z. and Hasnain, S., 1994. Effect of NaCl stress on DNA, RNA and soluble protein content of callus cultures of *Brassica oleracea* L. Var. Capitata. *Pakistan Journal of Agricultural Research*, **15(1)**, 233-238.
63. Hasnain, S. and Sherwani, S.K. 1994. Some physiochemical factors affecting plasmid stability. *Pakistan Journal of Agricultural Research*, **15(1)**, 221-232.
64. Qazi, S.H.A. and Hansain, S. 1994. Transformation and auxin independent growth of *Brassica oleracea* calli mediated by salt tolerant oncogenic *Agrobacterium tumefaciens* strains. *Pakistan Journal of Zoology*, **26(4)**, 293-300.
65. Sabri, A.N. and Hasnain, S. 1994. Effect of pH on the cell morphology of *divIVA⁺* and *divIVA⁻* transformants of *Bacillus subtilis*. *Pakistan Journal of Zoology*, **26(4)**, 309-320.
66. Saleem, F., Sabri, A.N. and Hasnain, S. 1994. Growth stimulation of *Triticum aestivum* seedlings under lead stress with non-rhizospheric bacteria. *Science International*, **6(2)**, 181-185.
67. Sabri, A.N. and Hasnain, S. 1994. Amplification of *div^a* gene of *Bacillus subtilis* and its effects on Spo phenotype. *Proceeding of Pakistan Congress of Zoology*, **14**, 221-236.
68. Hasnain, S., Yasmin, A. and Qazi, S.H.A. 1995. Na⁺ and auxin relation of *Triticum aestivum* seedlings grown under NaCl stresses after inoculating with *Agrobacterium tumefaciens*. *Science International*, **7(1)**, 133-137.
69. Sabri, A.N. Abbas, M. and Hasnain, S. 1995. Gram negative bacteria from industrial wastes conferring pleotropic metal and antibiotic resistance. *Punjab University Journal of Zoology*, **10**, 39-48.
70. Altaf, T., Sabri, A.N. and Hasnain, S., 1995. Curing of zinc resistant plasmid from Gram-negative bacteria and their effects on growth of *Triticum aestivum* under zinc stress. *Proceedings of Pakistan Congress of Zoology*, **15**, 189-200
71. Hasnain, S., Sheikh, T.R. and Sabri, A.N. 1995. *Agrobacterium tumefaciens* inoculation at different pH levels affects *Triticum aestivum* germination, growth, sodium and auxin content of seedling under NaCl stress. *Science International*, **7(4)**, 525-530.
72. Sabri, A.N. and Hasnain, S. 1995. The effects of pH on antibiotics and chromium resistance in *Bacillus subtilis*. *Science International*, **7(4)**, 533-536.
73. Yasmin, A. and Hansain, S. 1995. *Agrobacterium tumefaciens* conferring resistance to NaCl tolerance from some Leguminous trees. *Biologia*, **41(1)**, 69-77.
74. Ali, S., Sabri, A.N. and Hasnain, S. 1995. Curing of plasmids conferring resistance to lead in bacteria and effects of inoculation of plasmid free and parental strains on the growth of *Triticum aestivum* under lead stress. *Science International*, **8(2)**, 175-180.
75. Sabri, A.N., and Hasnain, S. 1996. Starvation effects on the cell morphology of *divIVA⁺* and *divIVA⁻* transformants of *Bacillus subtilis*. *Pakistan Journal of Zoology*, **28(1)**, 25-33.
76. Hasnain, S. and Sherwani, S.K. 1996. Altered stability of hybrid plasmid by deleting genomic segments of *Bacillus subtilis*. *Pakistan Journal of Zoology*, **28(2)**, 109-114.
77. Sabri. A.N. and Hasnain, S. 1996. Effects of temperature and pH on the peptidoglycan content of *divIVA⁺* and *divIVA⁻* strains of *Bacillus subtilis*. *Pakistan Journal of Zoology*, **28(2)**, 145-150.
78. Sabri, A.N. and Hasnain, S. 1996. Spore germination analysis of *Bacillus subtilis* *divIVA* mutant strain in ALA and AGFK system. *Pakistan Journal of Zoology*, **28(3)**, 213-224.
79. Qazi, S.H.A. and Hasnain, S., 1996. *Agrobacterium tumefaciens* from some plants of Pakistan. Host range, host specificity and T-DNA expression in tissue culture. *Pakistan Journal of Zoology*, **28(4)**, 283-290.

80. Sabri, A.N. and Hasnain, S. 1996. Polypeptide products in *divIVA⁺* and *divIVA⁻* strains of *Bacillus subtilis* under varying temperature, pH and starvation conditions. *Pakistan Journal of Zoology*, **28(4)**, 303-309.
81. Sultan, S. and Hasnain, S. 1996. Chromium resistant pseudomonads from polluted water: Conjugal transfer and curing of plasmid associated with chromium resistance. *Proceedings of Pakistan Congress of Zoology*, **16**, 97-109.
82. Iqbal, A., Qazi, S.H.A. and Hasnain, S. 1996. Optimization of conditions for T-DNA transfer in callus cultures of *Brassica oleracea*. *Proceedings of Pakistan Congress of Zoology*, **16**, 143-153.
83. Yasmin, A. and Hasnain, S. 1996. Plasmid curing with TMP from salt-tolerant pseudomonads. *Proceedings of Pakistan Congress of Zoology*, **16**, 221-229.
84. Qazi, S.H.A. and Hasnain, S. 1996. Rhizogenic, caulogenic and callogenetic responses of Flax leaf discs mediated by *Agrobacterium tumefaciens*. *Proceedings of Pakistan Congress of Zoology*, **16**, 231-244.
85. Qazi, S.H.A. and Hasnain, S. 1996. *Agrobacterium tumefaciens* strains capable of infecting or inducing tumors on some monocotyledons. *Science International*, **8(4)**, 353-358.
86. Hasnain, S., Akhtar, N. and Sabri, A.N. 1996. Alleviation of cadmium toxicity and growth enhancement of *Helianthus annuus* and *Triticum aestivum* seedling through bacterial inoculation. *Pertanika Journal of Tropical Agricultural Science*, **19(2/3)**, 163-169.
87. Hasnain, S. and Thomas, C.M. 1996. Two related rolling circle replication plasmids from salt tolerant bacteria. *Plasmid*, **36**, 191-199.
88. Hasnain, S., Sabri, A.N. and Abbas, M. 1996. Some growth and genetic characteristics of chromium resistant *Bacillus subtilis* strains from polluted waters. *Science International*, **8(1)**, 1-5.
89. Qazi, S.H.A. and Hasnain, S. 1997. Impact of *Agrobacterium tumefaciens* co-cultivation time and temperature on T-DNA transfer and expression in plant cells. *Punjab University Journal of Zoology*, **12**, 59-72.
90. Qazi, S.H.A and Hasnain, S. 1997. Plasmid associated salt tolerance property of *Agrobacterium tumefaciens* from plants of Punjab, *Pakistan Journal of Zoology*, **29(1)**, 7-13.
91. Qazi, S.H.A. and Hasnain, S. 1997. Host range and host specificity spectrum of indigenous *Agrobacterium tumefaciens* strains from Pakistan. *Pakistan Journal of Zoology*, **29(2)**, 113-122.
92. Iftikhar, A., Sabri, A.N. and Hasnain, S. 1997. Germination and growth responses of *Triticum aestivum* under salt stress after inoculating with *Agrobacterium tumefaciens* for different durations at variable temperatures. *Science International*, **9(1)**, 79-85.
93. Qazi, S.H.A. and Hasnain, S. 1997. Temperature effects on oncogenecity of *A. tumefaciens* in *Capsicum annuum* L. and *Lycopersicum esculentum*, Mill. *Science International*, **9(2)**, 215-217.
94. Hasnain, S., Zareen, A. and Yasmin, A. 1997. Alleviation of HgCl₂ toxicity for *Triticum aestivum* germination and early growth with bacterial inoculation. *Science International*, **9(2)**, 211-214.
95. Yasmin, A., and Hasnain, S. 1997. Moderately halophilic bacteria associated with the roots of *Chenopodium album*, *Oxalis corniculata* and *Lycium edgeworthii*. *Pakistan Journal of Zoology*, **29(3)**, 249-257.
96. Hasnain, S. and Sabri, A.N. 1997. Growth stimulation of *Triticum aestivum* seedlings under Cr-stresses by non rhizospheric pseudomonad strains. *Environmental Pollution*, **97 (3)**, 265-273.
97. Saeed, F., Sabri, A.N. and Hasnain, S. 1997. Plasmid encoded resistance in bacteria and conjugal transfer of mercury resistant plasmid. *Proceedings of Pakistan Congress of Zoology*, **17**, 99-112.
98. Sabri, A.N. and Hasnain, S. 1997. Analysis of some cell walls constituents of vegetative cells and spores of *divIVA⁺* and *divIVBA⁻* strains of *Bacillus subtilis*. *Proceedings of Pakistan Congress of Zoology*, **17**, 211-223.
99. Siddique, S., Sabri, A.N. and Hasnain, S. 1997. Growth effect of *Triticum aestivum* seedlings under NaCl stress after inoculating with plasmid bearing and plasmid-free bacterial strains. *Endeavors in Biotechnology* (Ilahi, I. ed), University of Peshawar, 97-112.

100. Qazi, S.H.A. and Hasnain, S. 1997. Host range and host specificity variation manifested by different *Agrobacterium tumefaciens* strains. *Endeavors in Biotechnology* (Ilahi, I. ed). University of Peshawar, 113-122.
101. Zareen, A., Yasmin, A. and Hasnain, S. 1997. Characterization of mercury resistant bacteria and their conjugative property. *Science International*, **9(3)**, 321-325.
102. Yasmin, A., Afrasayab, S. and Hasnain, S. 1997. Mercury resistant bacteria from effluents of paint industry: characterization and mercury uptake ability. *Science International*, **9(3)**, 315-320.
103. Mahmood, U., Sabri, A.N. and Hasnain, S. 1998. Involvement of plasmids associated with chromium resistant Pseudomonads strains in stimulation of *Triticum aestivum* seedlings growth under Cr-stresses. *Biologia, (Biotechnology Number)*, **44(1+2)**, 204-215.
104. Yasmin, A. and Hasnain, S. 1998. Altered Gram-staining property and some cell wall constituents of bacteria under NaCl stress. *Biologia, (Biotechnology Number)*, **44(1+2)**, 46-55.
105. Afrasayab, S., Yasmin, A., Hasnain, S. 1998. Gram-negative mercury resistant bacteria exhibiting mercury detoxification ability in growth medium. *Biologia, (Biotechnology Number)*, **44(1+2)**, 33-45.
106. Mirza, T. Z., Sabri, A.N. and Hasnain, S. 1998. Salt tolerant bacteria from rhizosphere, rhizoplane, histoplane and phylloplane of *Mazus* plant inhabitant of salt range. *Science International*, **10(2)**, 151-156.
107. Sabri, A.N. and Hasnain, S. 1998. Impact of bacterial inoculation on germination, early growth, chromium uptake and some biochemical aspects of *Vigna radiata* under Cr-stresses. *Science International*, **10(2)**, 157-160.
108. Yasmin, A. and Hasnain, S. 1998. Root associated osmo/halo-tolerant bacteria from plants grown in saline soils. *Proceedings of Pakistan Congress of Zoology*, **18**, 97-114.
109. Hassan, Z., Sabri, A.N. and Hasnain, S. 1998. Plasmid associated temperature and pH dependent detoxification ability of mercury resistant bacteria. *Proceedings of Pakistan Congress of Zoology*, **18**, 57-70.
110. Nisar, S., Yasmin, A. and Hasnain, S. 1998. Altered cell morphology, gram-staining behavior and polypeptide profile of salt-tolerant bacteria under varying environmental conditions. *Proceedings of Pakistan Congress of Zoology*, **18**, 143-163.
111. Yasmin, A. and Hasnain, S. 1998. Root associated moderately halophilic and alkaliophilic bacteria from *Convolvulus aureus*. *Punjab University Journal of Zoology*, **13**, 41-54.
112. Sabri, A.N., Mirza, T.Z. and Hasnain, S. 1999. Salt tolerant bacteria from rhizosphere, rhizoplane, histoplane and phylloplane of *Launia nudiculus* inhabitant of salt range. *Science International*, **11**, 217-222.
113. Yasmain, A. and Hasnain, S. 1999. Polypeptide pattern of soil bacteria in response to salt stress. *Proceedings of Pakistan Congress of Zoology*, **19**, 1-10.
114. Afrasayab, S. and Hasnain, S. 1999. Moderately halophilic rhizobacteria from native plants of salt range. *Proceedings of Pakistan Congress of Zoology*, **19**, 79-93.
115. Faisal, M. and Hasnain, S. 1999. Gram-negative rod-shaped bacteria exhibiting high level resistant to chromium. *Proceedings of Pakistan Congress of Zoology*, **19**, 121-132.
116. Mirza, T. Z. and Hasnain, S. 1999. Plasmid curing response of salt tolerant bacteria to different agents: Impact of curing on Na uptake and wall composition of the bacterial strains. *Proceedings of Pakistan Congress of Zoology*, **19**, 165-176.
117. Mirza, T. Z. and Hasnain, S. 2000. Efficiency of different chemical and physical agents for curing of plasmid/s from salt tolerant bacterial strains, *Pakistan Journal of Biological Sciences*, **3**, 284-288.
118. Sultan, S. and Hasnain, S. 2000. Hexavalent Chromium Resistant Bacteria from Effluents of Electroplating: Isolation, characterization and chromium (VI) reduction potential. . *Pakistan Journal of Biological Sciences*, **3**, 450-456.

119. Afrasayab, S. and Hasnain, S. 2000. Synergistic growth stimulatory effects of mixed culture bacterial inoculations on the early growth of *Triticum aestivum* var Inqlab-91 and NaCl stress. *Pakistan Journal of Biological Sciences*, 3,1016-1023.
120. Afrasayab, S. and Hasnain, S. 2000. Early growth responses of *Triticum aestivum* Var Inqlab 91 under NaCl stress after inoculation with mixed culture rhizoplane and phylloplane salt tolerant bacteria. *Science International*, 12, 79-86.
121. Yasmin, A. and Hasnain, S., 2000. Plasmid mediated salt tolerance in root associated bacteria from *Erigerone linifolius*. *Pak. J. Biol. Sci.* 3, 2216-2222.
122. Qazi, S. H. A. and Hasnain, S. 2000. Indigenous *Agrobacterium tumefaciens* growth responses to metallic salts, antibiotics, temterature and pH. *Punjab University Journal of Zoology*. 15, 1-14.
123. Yasmin, A. and Hasnain, S. 2001, Bacterial diversity in athalassic saline habitats. *Journal of Microbiology*,1: 89-97.
124. Naz, F. , Mirza, T. Z. and Hasnain, S. 2001, Trimethoprim induced plasmid curing in salt tolerant bacteria depends on medium composition and growth conditions. *Journal of Microbiology*,1: 56-67.
125. Afrasayab, A., Zeb A. and Hasnain, S. 2001, Variable effects of mono and mixed culture bacterial inoculations on *Triticum aestivum* growth under salt stress. *Journal of Microbiology*,1: 15-28.
126. Afrasayab, S. and Hasnain, S. 2001. Salt tolerant bacteria differential affecting the growth of *Triticum aestivum* varieties under NaCl stresses. *Pakistan Journal of Botany*, 33 (special issue) : 605-617.
127. Faisal, M. and Hasnain, S. 2001. Reduction of toxic hexavalent chromium by bacterial strains isolated from effluents of tanneries. *Pakistan Journal of Botany*, 33 (special issue): 605-617.
128. Mehr, S., Afrasayab, S and Hasnain, S. 2002, Effect of Mono Culture Inoculations on the early growth of *Triticum aestivum* var Inqla 91 under NaCl stress. *Pakistan Journal of Biological Sciences*, 5: 643-647.
129. Munir, J. and Hasnain, S. 2002. Effects of flooding and drainage and their alternation on the growth and uptake of iron and manganese in *Capsicum annum* L. *Science International*, 14: 163-168.
130. Afrasayab, S., Yasmin, A. and Hasnain, S. 2002. Characterization of some indigenous mercury resistant bacteria from polluted environment. *Pakistan Journal of Biological Sciences*, 5: 792-797.
131. Ahmad H., Hasnain, S. and Khan, A., 2002. Evolution of genome relationship among the Rapeseed and Mustard. *Biotechnology*, 1 (2-4): 78-87
132. Faisal, M and Hasnain, S. 2002. Bacterial mediated aerobic reduction of toxic Cr (VI) in industrial effluents. *Pakistan Journal of Microbiology*, 2: 27-32.
133. Faisal, M. and Hasnain, S. 2003. Synergistic Removal of Cr (VI) by *Eichornia crassipes* in conjunction with Bacterial strains. *Pakistan Journal of Biological Sciences*, 6 (3): 264-268.
134. Sultan, S. and Hasnain, S. 2003. *Pseudomonas* strains exhibiting high level Cr(VI) resistance and Cr(VI) detoxification potential. *Bulletin of Environmental Contamination and Toxicology*,71 (3):473-480.
135. Mehmood, U and Hasnain, S. 2003. Evidence of nutrient induced spore germination in bacteria from stress environment..*Pak J Bot.*, 35 (5):835-842
136. Faisal. M and Hasnain.S 2003. Accumulation and reduction of Cr (VI) in industrial effluent by *Bacillus* sp- strain CrM-1. *Pak J Bot.*, 35 (5):797-804
137. Munir, A., Munir, I., Afrasyab, S. and Hasnain, S. 2003. Growth stimulatory effects of *Azospirillum* strains on *Triticum eastivum* and *Vigna radiate*. *Biotechnology*, 2(3): 198-205.
138. Ashraf, S., Mehmood, U. and Hasnain, S., 2003. Bacterial Role in growth of pre and post-inoculated *Zea mays* seedling and on soil aggregation. *Science International*. 15(4):253-258.
139. Basharat, S., Mehmood, U. and Hasnain, S., 2003. Effect of antimicrobial activity exhibiting Bacilli on early growth of *Vigna radiate* seedlings. *An International Journal of Earth and Life Sciences*. 2(3): 161-171.
140. Shaheen, T., Mehmood, U. and Hasnain, S., 2003. Impact of bacterial inoculum sizes, nitrogen and phosphorous on plant growth and soil aggregation. *An International Journal of Earth and Life*

- Sciences*. 2(4): 245-256.
141. Amin, S., Mehmood, U. and Hasnain, S., 2003. Analysis of antimicrobial activity of bacterial strains and it's effect on growth of *Triticum aestivum* and *Zea mays*. *An International Journal of Earth and Life Sciences* 2(4): 261-274.
 142. Faisal, M and Hasnain, S. 2004. Comparative Study of Cr(VI) Reduction in Industrial Effluent by *Ochrobactrum intermedium* vs. *Bravibacterium* sp. *Biotechnology Letters*, 26(21): 1623-1628.
 143. Ahmad, H. and Hasnain, S. 2004. Meiotic analysis in the induced autotetraploids of *Brassica rapa*. *Acta Botanica Yunnanica*, 26 (3): 321-328
 144. Faisal, M and Hasnain, S. 2004. Microbial Conversion of Cr (VI) in to Cr (III) in Industrial Effluent. *African Journal of Biotechnology*, 3(11) 610-617.
 145. Faisal, M and Hasnain, S. 2004. Isolation and Characterization of Chromium Resistant Bacteria from Polluted Environment. *An International Journal of Earth and Life Sciences*, 2 (4): 38-45.
 146. Faisal, M and Hasnain, S. 2004. Bacterial Reduction of Toxic Cr (VI) in to Cr (III). *Chinese Journal of Biotechnology*, 20 (5): 774-778.
 147. Wasem Hassan Syed, Sadaqat Mahdi Syed and Shahida Hasnain. 2004. Variability for agronomic traits in two random-mating sunflower populations: Means, variance components and heritabilities. *Helia*, 27(41):99-112. DOI: 10.2298/HEL0441099S
 148. Ashraf, M., Hasnain, S., Berge, O.. and Mahmood, T. 2004. Inoculating wheat seedlings with exopolysaccharide-producing bacteria restricts sodium uptake and stimulates plant growth under salt stress. *Biology and Fertility of Soils*, 40: 157-162.
 149. Javed, S., Batool, R., Sabri,A.N. and Hasnain, S., 2004. Isolation of *Pseudomonas* sp. Biofilms: Effect of mono and mixed culturing on plant growth promotionand soil aggregation. *Science International*, 16(3): 215-221
 150. Mehmood, U. Shoaib, E. and Hasnain, S., 2004. Variation in cell morphology and gram staining property of Bacilli under different salt stresses and media composition. *Science International*, 16(2): 129-133.
 151. Saeed,M., Behjatnia, S.A.A. Mansoor, S. Zafar,Y. Hasnain, S. and Rezaian, M.A. 2005. A Single Complementary-Sense Transcript of a Geminiviral DNA beta Satellite Is Determinant of Pathogenicity. *Molecular Plant Microbe Interaction*, 18 (1): 7-14.
 152. Faisal, M, Hameed,A. and Hasnain,S. 2005. Chromium-resistant bacteria and cyanobacteria: impact on Cr(VI) reduction potential and plant growth,*Journal of Industrial Microbiology and Biotechnology*, 32(12): 615-621.
 153. Ashraf M, Hasnain S and Hussain F (2005) Exo-polysaccharides producing biofilm bacteria in improving physico-chemical characteristics of the salt-affected soils. In: Iftikhar A Raja, et al. (eds.), Proceedings of International Conference on Environmentally Sustainable Development (ESDev-2005), COMSATS Institute of Information Technology, Abbottabad, Pakistan. vol. 3: 1527-1536
 154. Hameed, A. and Hasnain S (2005). Cultural characteristics of chromium resistant filamentous cyanobacteria isolated from local environment in pakistan. In: Iftikhar A Raja, et al. (eds.), Proceedings of International Conference on Environmentally Sustainable Development (ESDev-2005), COMSATS Institute of Information Technology, Abbottabad, Pakistan. vol. 3: 1815-1825
 155. Faisal, M. and Hasnain, S. 2005. Chromate reductant *Bacillus cereus* augments Sunflower growth by reducing toxicity of Cr (VI). *Journal of Plant Biology*, 48 (2): 187-194.
 156. Faisal, M. and Hasnain, S. 2005. Bacterial Cr(VI) reduction Concurrently Improves Sunflower (*Helianthus annuus* L.) growth. *Biotechnology Letters*, 27(13): 943-947.
 157. Faisal, M and Hasnain, S. 2005. Beneficial role of hydrophytes in removing Cr(VI) from wastewater along with bacterial strains. *International Journal of Phytoremediation*, 7(2): 271-277.
 158. Faisal, M. and Hasnain, S. 2005. Colonization of *Vigna radiata* roots by chromium resistant bacterial strains of *Ochrobactrum intermedium*, *Bacillus cereus* and *Brevibacterium* sp. *Chinese Journal of Applied and Environmental Biology*, 11: 528-530.

159. Sultan, S. and Hasnain, S. 2005. Chromate reduction capable of a gram positive bacteriaum isolated from effluent of dying industry. *Bull Eviron. Contam. Toxicol.*, 75(4): 699-706.
160. Faisal, M and Hasnain, S. 2005. Reduction of mobile chromium under different environment conditions. *Science International*, 27 (3): 271-274.
161. Batool, R. and Hasnain, S. 2005. Growth stimulatory effects of *Enterobacter* and *Serratia* isolated from biofilms on plant growth and soil aggregation. *Biotechnology*, 4(4): 347-353.
162. Sultan, S. and Hasnain, S. 2005. Plasmid mediated chromate resistance in bacteria isolated from industrial waste. *Pakistan Journal of Biological Sciences*, 8(12): 1771-1777.
163. Hameed, A. and Hasnain S (2005). Cultural characteristics of chromium resistant unicellular cyanobacteria isolated from local environment in Pakistan. *Chin. J. Oceanolo.Limnol.* 23:433-441.
164. Mirza, T.Z., Mahmood, A., Sabri, A. N., and Hasnain, S., 2005. Germination response of *Bacillus subtilis* mutants to ALA and AGFK system. *Pakistan Journal of Biological Sciences*, 8(12): 1411-1419.
165. Faisal, M and Hasnain, S. 2005. Growth improvements of sunflower seedlings by chromium resistant bacteria. *Iranian Journal of Biotechnology*, 3(4): 114-120.
166. Faisal, M and Hasnain, S. 2006. Colonization potential of *Ochrobactrum intermedium*, *Bacillus cereus* and *Brevibacterium* sp on *Triticum aestivum* and *Helianthus annuus* roots. *Journal of Plant Sciences* 1(1): 36-41.
167. Faisal, M and Hasnain, S. 2006. Detoxification of Cr(VI) by *Bacillus cereus*. *Research Journal of Microbiology*, 1 (1): 45-50.
168. Faisal, M and Hasnain, S. 2006. Plant growth promotion by *Brevibacterium* under chromium stress. *Research Journal of Botany*, 1(1): 24-29.
169. Al-Ajlani, M. M. and Hasnain, S. 2006. Simple and rapid isolation of a novel antibiotic from *Bacillus subtilis* Mz-7. *Journal of Liquid Chromatography & Related Technologies*, 29 (5): 639-647.
170. Ashraf, M., Hasnain, S and Berge, O. 2006. Effect of exopolysaccharides producing bacterial inoculation on growth of roots of wheat (*Triticum aestivum* L.) plants grown in a salt-affected soil. *International Journal of Environmental Science and Technology*, 3(1): 43-51.
171. Sultan, S. and Hasnain, S. 2006. Characterization of an *Ochrobactrum intermedium* strain STCr-5 manifesting high level Cr(VI) resistance and reduction potential. *Enzyme and Microbial Biotechnology*, 39 (4): 883-888.
172. Faisal, M and Hasnain, S. 2006. Hazardous Impact of Chromium on Environment and its appropriate Remediation. *Journal of Pharmacology and Toxicology* 1(3): 248-258.
173. Shaukat, K., Afrasayab,S., and Hasnain, S., 2006. Growth Responses of *Helianthus annuus* to plant Growth Promoting Rhizobacteria used as a Biofertilizer. *International Journal of Agricultural Research* 1(6): 573-581.
174. Shaukat, K., Afrasayab,S., and Hasnain, S., 2006. Growth Responses of *Triticum aestivum* to plant Growth Promoting Rhizobacteria used as a Biofertilizer. *Research Journal of Microbiology* 1(4): 330-338.
175. Hussain, N., Jaffery, G., Hasnain ,S., and Anwar, M.S., 2006. Seroprevalence of Rubella IgG and IgM Infants Suspected of Having Rubella Infection. *Biomedica* 22 (1): 25-30.
176. Shafiq-ur-Rehman, Jamil, J and Hasnain, S. 2006. Characterization and optimization of antibiotic resistant bacterial strains for polyhydroxyalkanoates (PHAs) production. *Pakistan Journal of Agriculture Research*, 19(4): 81-86.
177. Hussain, N and Hasnain, S. 2006. Congenital Rubella Syndrome. *The Professional*, 13(1): 11-16.
178. Razi, S., and Hasnain, S. 2006. Gamma irradiation: Impact on chromate resistant cyanobacteria. *Science Asia*, 32(1): 107-111.
179. Maqbool, A., Sabri, A.N., and Hasnain, S., 2006. Metal and antibiotic resistance exhibiting Bacilli capable of degrading diphenylamine, phenophthalein and triplex. *Science International. (Lahore)*. 18(4): 297- 301.
180. Faisal, M and Hasnain, S. 2006. Growth stimulatory effect of *Ochrobactrum intermedium* and

- Bacillus cereus* on *Vigna radiate*. Letters in Applied Microbiology, 43: 461-466.
181. Sultan, S. and Hasnain, S. 2007. Reduction of toxic hexavalent chromium by *Ochrobactrum intermedium* strain SDCr-5 stimulated by heavy metals. *Bioresource Technology*, 98(2): 340-344.
 182. Ali, B. and Hasnain, S. 2007. Efficacy of bacterial auxin on in vitro growth of *Brassica oleracea* L. World Journal of Microbiology and Biotechnology, 23:779-784
 183. Iftikhar, S., Faisal, M and Hasnain, S. 2007. Cytosolic reduction of Toxic Cr(VI) by Microorganism. Research Journal of Environmental Sciences, 1(2): 77-81.
 184. Ali, B and Hasnain, S. 2007. Potential of bacterial indole acetic acid to induce adventitious shoots in plant tissue culture. Letters in Applied Microbiology, 45:128-133.
 185. Anwar, S., Sabri, A.N and Hasnain, S. 2007. Study of varying temperature on bacterial cell morphology of wild type (PY79) and sporulation defective strains of *Bacillus*. Research Journal of Microbiology, 2(1): 66-73.
 186. Al-Ajlani, M.M., Sheikh, M.A., Ahmad, M and Hasnain, S. 2007. Production of surfactin from *Bacillus subtilis* MZ-7 grown on pharmamedia commercial medium. *Microbial Cell Factories* 2007, 6:17
 187. Al-Ajlani, M.M., and Hasnain, S. 2007. Antagonistic activity against nosocomial clinical isolates with *Bacillus subtilis* MZ-7. Annals of Microbiology. 57(3): 419-424.
 188. Anwar, S., Sabri, AN, Rehman, H., Faisal, M and Hasnain, S. 2007. Impact of Temperatures and pH on Soluble Protein Content and Protein Profile of PY79 (Wild Type) and Sporulation Defective Mutant Strains of *Bacillus*. Research Journal of Microbiology, 2(11): 866-870.
 189. Iqbal, U., Mehmood, S., Faisal, M and Hasnain, S. 2007. Chromosomal analysis of girls with short stature and puberty failure. Trends in Medical Research, 2(4): 204-207.
 190. Arshad, M.U., Jamil, N., Naheed N and Hasnain, S. 2007. Analysis of bacterial strains from contaminated and non-contaminated sites for the production of biopolymers. African Journal of Biotechnology, 6(9): 1115-1121.
 191. Shafiq-ur-Rehman, Jamil, J and Hasnain, S. 2007. Screening of different contaminated environments for polyhydroxyalkonates- producing bacterial strains. *Biologia, Bratislava*, 62/6: 650-656
 192. Afrasyab, S., Faisal, M. and Hasnain, S. 2007. Induction of Salinity Tolerance in Plants through Indigenous Bacteria. In: *Application of Biotechnology*, Aavishkar publishers distributors, India, pp98-119.
 193. Saima Zaidi, Azra Yasmin, Muhammad Faisal and Shahida Hasnain, 2007. Inoculation effect of bacteria isolated from *Trianthema portulacastrum*, *Rumex dentatus*, and *Coronopus Didymus* plants on *Vigna radiata* seedlings. World Journal of Agricultural Sciences, 3 (6): 796-800.
 194. Ghaffar, I., Ali B. and Hasnain, S. 2007. Effect of different hormonal combinations on regeneration of callus of *Gomphrena globosa* L. *Pakistan Journal of Biological Sciences*, 10(20): 3708-3712
 195. Ali, B. and Hasnain, S. 2007. *In vitro* plant growth induction potential of indoleacetic acid of *Halomonas desiderata* REI and *H. variabilis* HTI. Proceedings of 12th Conference of Microbiology; Cairo, Egypt, March 18-20, 2007.
 196. Ian Colbeck, Zaheer Ahmad Nasir, Shahida Hasnain and Sikander Sultan. 2008. Indoor Air Quality at Rural and Urban Sites in Pakistan. Water Air Soil Pollution: Focus, 8: 61-69.
 197. Najma Arshad, Shahida Hasnain and Hess Michael, 2008. Among several plant species tested only *Peganum harmala* or its β-carboline alkaloids inhibit in vitro the growth of certain antibiotics resistant strains of important bacteria and selected protozoa isolated from poultry. Phytotherapy Research, 22:1533-1538.
 198. N Arshad, C. Neubauer, S. Hasnain and M. Hess. 2008. *Peganum harmala* can minimize *Escherichia coli* infection in poultry, but long-term feeding may induce side effects. Poultry Science, 87: 240-249.
 199. Khushi Muhammad, Azra Yasmin, Hazir Rehman, Muhammad Faisal and Shahida Hasnain. 2008. Growth responses of *Vigna radiata* to arid land bacteria exhibiting antimicrobial activity. Research Journal of Environmental Sciences, 2(2): 139-144.
 200. Furrukh Mehmood Alvi and Shahida Hasnain. 2008. AGT gene variants in Pakistani Hypertensive

- population of Punjab. Journal of the Renin-Angiotensin-Aldosterone System, 9 (1): 22-26.
201. Hanif M., Saddiq A., Hasnain S., Ahmad S., Rabbani G. and Isab A. 2008. Preparation, spectral characterization and antibacterial studies of silver (I) complexes of 2-mercaptopuridine and thiomalate. Spectroscopy, 22: 51-56.
 202. Rehman, A., Farooq, H. and Hasnain, S. 2008. Biosorption of copper by yeast, *Lodderomyces elongisporus* isolated from industrial effluents: its potential use in wastewater treatment. Journal of Basic Microbiology, 48: 195-201.
 203. Ambreen Ahmad, Anjum Nasim Sabri and Shahida Hasnain, 2008. Effect of varying temperature on growth, morphology and soluble protein content of *div IV* and *div V* mutant strains of *Bacillus subtilis*. African Journal of Biotechnology, 7(10): 1505-1511.
 204. Rehman, A., Zahoor, A., Muneer, B. and Hasnain, S. 2008. Chromium tolerance and reduction potential of a *Bacillus* sp.ev3 isolated from metal contaminated wastewater. *Bull Environ. Contam. Toxicol.*, 10.1007/s00128-008-9442-5.
 205. Sajid, I., Shabaan, K. A., Frauendorf. H., Hasnain, S. and Laatsch. H. 2008. Val-Geninthiocin: MS structure elucidation of thiopeptide antibiotics produced by *Streptomyces* sp. RSF18. *Zeitschrift fur Natureforschung* ,63b: 1223 - 1230.
 206. Sajid, I., Yao. C .F, Shabaan, K. A., Hasnain, S. and Laatsch. H. 2008. Antifungal and anti bacterial activities of indigenous *Streptomyces* isolates of saline farmlands, prescreening, ribotyping, and metabolic diversity. World Journal of Microbiology and Biotechnology 25: 601-610..
 207. Nageen Hussain, Ghazala Jaffery, Anjum Nasim Sabri, Shahida Hasnain and Nighat Mir. 2008. Budd Chiari Syndrome in a Fifteen-Year Old girl with Systematic Lupus Erythematosus. *International Journal of Health Research*, 1(2): 45-49.
 208. Saba Riaz, Farrakh Mehmood Alvi and Shahida Hasnain. 2008. Early diagnosis of hypertension with molecular genetic techniques, *Professional Med J*, 15(2): 260-269
 209. Hussain, N., Jaffery, G. and Hasnain, S. 2008. Serum complement C3 and C4 levels in relation to diagnosis of lupus nephrosis. *Tropical Journal of Pharmaceutical Research*, 7(4):1117-1121.
 210. Nageen Hussain, Ghazala Jaffery, and Shahida Hasnain . 2008. Association of ribosomal anti-P antibodies with different parameters of lupus. *African Journal of Biotechnology*, 7(24): 4437-4440.
 211. Naheed, N., Jamil, N. and Hasnain, S. 2008. Biodegradable plastic producing bacterial strains: production and characterization. In; Proceedings of symposium on Genomics, Proteomics and Metabolomics: recent trends in biotechnology. S. Hasnain, N.Jamil, A. Rehman. M. Faisal, A.N. Sabri and. Sultan (Eds), MMG Dept PU, Lahore, pp 230-239.
 212. Shafique H., Ali B. and Hasnain, S. 2008. Bacterial auxin production and its impact on plant growth. In; Proceedings of symposium on Genomics, Proteomics and Metabolomics: recent trends in biotechnology. S. Hasnain, N.Jamil, A. Rehman. M. Faisal, A.N. Sabri and. Sultan (Eds), MMG Dept PU, Lahore, pp 219-229.
 213. Ghafoor, A. and Hasnain, S. 2008. Effect of various components of the detergent on an extracellular protease: feasibility as laundry additive. In; Proceedings of symposium on Genomics, Proteomics and Metabolomics: recent trends in biotechnology. S. Hasnain, N.Jamil, A. Rehman. M. Faisal, A.N. Sabri and. Sultan (Eds), MMG Dept PU, Lahore, pp 240-246.
 214. Sajid, I., and Hasnain, S.2008. The cyclic thiopeptide antibiotics produced by an indigenous *Streptomyces* sp. RSF18. In; Proceedings of symposium on Genomics, Proteomics and Metabolomics: recent trends in biotechnology. S. Hasnain, N.Jamil, A. Rehman. M. Faisal, A.N. Sabri and. Sultan (Eds), MMG Dept PU, Lahore, pp 247-256.
 215. Junaid Ahmad Khan, Hafiz M Imran Arshad, Farhat Fatima Jamil and Shahida Hasnain. 2008. Evaluation of rice genotypes against bacterial leaf blight (blb) disease. Pakistan Journal of Phytopathology. 20(1): 48-51.
 216. Ali, B., Sabri, A.N., Ljung, K. and Hasnain, S. 2009. Quantification of indol-3-acetic by plant associated *Bacillus* spp. And their phytostimulatory effect on *Vigna radiata* (L.). World journal of Microbiology and Biotechnology, 25(3):519-526.
 217. Syed Kashif Nawaz*, Samreen Riaz, Saba Riaz and Shahida Hasnain, 2009. Screening for anti-

- methicillin resistant *Staphylococcus aureus* (MRSA) bacteriocin producing bacteria. African Journal of Biotechnology, 8 (3), 365-368.
218. Ali, B., Sabri, A.N., Ljung, K. and Hasnain, S. 2009. Auxin production by plant associated bacteria: impact on endogenous IAA content and growth of *Triticum aestivum* L. Letters in Applied Microbiology. 48: 542-547.
219. Syed Kashif Nawaz, Shahida Hasnain. 2009. Pleiotropic effects of ACE polymorphism (Review Article), Biochimia Medica, 19(1):36–49
220. Ghafoor, A. and Hasnain, S. 2009. Production dynamics of *Bacillus subtilis* strain AG-1 and EAG-2, producing moderately alkaline proteases. African Journal of Microbiology Research, 3(5): 258-263.
221. Bashir, K., Hussain, N., Hasnain, S. and Elahi, S. 2009. Seroprevalence of hepatitis E virus immunoglobulin G and M antibodies in adults: A hospital-based study. Indian Journal of Medical Microbiology, (2009) 27(2): 139-41
222. Afia Ghafoor, Shahida Hasnain, 2009, Characteristics of an extracellular protease isolated from *Bacillus subtilis* AG-1 and its performance in relation to detergent components. Annals of Microbiology. 59 (3), 559-563.
223. Samreen Riaz, Saadia Shahzad Alam, Mehreen Raza, Shahida Hasnain and M. Waheed Akhtar. 2009. Obesity as risk factor and study of obesity related proteins in diabetes mellitus. African Journal of Biotechnology Vol. 8 (5), 737–744.
224. Saba Riaz, Adeel Ahmad and Shahida Hasnain, 2009. Antibacterial activity of soaps against daily encountered bacteria, African Journal of Biotechnology Vol. 8 (8)1431-1436
225. Farrakh M. Alvi and Shahida Hasnain. 2009. ACE I/D and G2350A Polymorphisms in Pakistani Hypertensive Population of Punjab. Clinical and Experimental Hypertension, Volume 31(5): 471–480.
226. Syed Kashif Nawaz and Shahida Hasnain, 2009. Comparison of the optimized conditions for genotyping of ACE ID polymorphism using conventional and direct blood PCR. African Journal of Biotechnology. 8 (20): 5189-5192
227. Anwar Hussain and Shahida Hasnain. 2009. Cytokinin production by some bacteria: Its impact on cell division in cucumber cotyledons. African Journal of Microbiology Research, 3(11) : 704-712
228. Junaid Ahmad Khan, Hafiz M Imran Arshad, Farhat Fatima Jamil and Shahida Hasnain. 2009. Evaluation of rice genotypes against bacterial leaf blight (BLB) disease. Pakistan Journal of Phytopathology. 21(1): 26-30.
229. Ambreen Ahmad and Shahida Hasnain, 2010. Auxin producing *Bacillus* sp.: Auxin quantification and effect on the growth of *Solanum tuberosum*. Pure and Applied Chemistry, 82(1): 313-319.
230. Abdul Rehman, S. Awais Butt and Shahida Hasnain. 2010. Isolation and characterization of arsennite oxidizing *Pseudomonas lubricans* and its potential use in bioremediation of wastewater. African Journal of Biotechnology, 9(10): 1493-1498.
231. Ghafoor, A. and Hasnain, S. 2010. Purification and characterization of extracellular protease from *Bacillus subtilis* EAG-2 strain isolated from ornamental plant nursery. Polish Journal of Microbiology. 59 (2): 107-112.
232. Attia Razzaq, Nazia Jamil, Nighat Naheed and Shahida Hasnain. 2010. Bacteria from contaminated urban and hilly areas as a source of polyhydroxyanoates production. African Journal of Biotechnology, 9: 1919-1925.
233. Riaz S, Nawaz S.K., Hasnain S. 2010. Bacteriocins produced by *L. fermentum* and *L. acidophilus* can inhibit cephalosporin resistant *E. coli*. Brazilian Journal of Microbiology. 41: 643-648.
234. Anwer Hussain and Shahida Hasnain, 2010. Rapid determination of cytokinins and auxin in cyanobacteria. Current Microbiology, 61:361–369, DOI. 10.1007/s00284-010-9620-7.
235. Shazia Afrasyab, Muhammad Faisal and Shahida Hasnain. 2010. Comparative study of wild and transformed salt tolerant bacterial strains on *Triticum aestivum* growth under salt stress. Brazilian Journal of Microbiology, 41(4): 946-955.
236. Uzma Iqbal, Nazia Jamil, Iftikhar Ali and Shahida Hasnain. 2010. Effect of zinc-phosphate-

- solubilizing bacterial isolates on growth of *Vigna radiata*. *Annals of Microbiology*, 60: 243-248.
237. Mehboob Ahmed, Lucas J. Stal and Shahida Hasnain, 2010. The production of indole-3-acetic acid by the cyanobacterium *Arthrospira platensis* strain-MMG-9. *Journal of Microbiology and Biotechnology*, 20(9): 1259-1265.
238. Mehboob Ahmed, Lucas J. Stal and Shahida Hasnain, 2010. Associations of non-heterocystous cyanobacteria with crop plants. *Plant and Soil*, 336: 365-379, DOI. 10.1007/s11104-010-0488-x
239. Syed Kashif Nawaz and Shahida Hasnain, 2010. Noise induced hypertension and prehypertension in Pakistan. *Bosnian Journal of Basic Medical science*, 10(3): 239-244.
240. Syed Muhammad Akmal Rahim and Shahida Hasnain. 2010. Agroforestry trends in Punjab, Pakistan. *African Journal of Environmental Science and Technology*, 4(10): 639-650.
241. Saima Riaz, Muhammad Faisal and Shahida Hasnain. 2010. *Cicer arietinum* growth promotion by *Ochrobactrum intermedium* and *Bacillus cereus* in the presence of CrCl₂ and K₂CrO₄. *Annals of Microbiology*, 60: 729-733. DOI.10.1007/s13213-010-0123-3.
242. Malik, S., Kakar, N., Hasnain, S., Ahmad, j., Wilcox, ER and Naz, S. 2010. Epidemiology of Van der Woude syndrome from mutational analysis in affected patients from Pakistan. *Clinical Genetics*, 78: 247-256.
243. Muaz Mutaz Al-Ajlani and Shahida Hasnain, 2010. Bacteria Exhibiting Antimicrobial Activities; Screening for Antibiotics and the Associated Genetic Studies. *The Open Conference Proceedings Journal*, 2010, 1, 230-238
244. Basharat Ali, Anjum Nasim Sabri and Shahida Hasnain. 2010. Rhizobacterial potential to alter auxin content and growth of *Vigna radiata* (L). *World Journal of Microbiology & Biotechnology*, 26: 1379-1384.
245. Abdul Rehman, Muhammad Sohail Anjum, and Shahida Hasnain. 2010. Cadmium biosorption by yeast, *Candida tropicalis* CBL-1, isolated from industrial wastewater. *J. Gen. Appl. Microbiol.*, 56, 359-368
246. Hussain N., Jaffery G., Hasnain S. and Anjum Nasim Sabri. 2010. Angiotensin-converting enzyme gene I/D polymorphism in Pakistani systemic lupus erythematosus patients. *African Journal of Biotechnology*. 9(48): 8134-8138.
247. Syed Muhammad Akmal Rahim, Shahida Hasnain and R. A. Shamsi. 2010. Land suitability classification of trees species in district Rahim Yar Khan, Punjab, Pakistan. *African Journal of Agricultural Research*.5(23): 3219-3229.
248. Syed Muhammad Akmal Rahim, Shahida Hasnain, Farkhanda Jabeen and Saadiya Malik. 2011. Land evaluation / classification of choice of trees species on farm lands in district Bahawalpur, Punjab, Pakistan, Forestry Nepal
249. Anwar Hussain and Shahida Hasnain. 2011. Phytostimulation and biofertilization in wheat by cyanobacteria. *Journal of Industrial Microbiology & Biotechnology*, 38, Issue 1: 85--92.
250. Mehboob Ahmed, Lucas J. Stal and Shahida Hasnain. 2011. DTAF: an efficient probe to study cyanobacterial-plant interaction using confocal laser scanning microscopy (CLSM). *Journal of Industrial Microbiology & Biotechnology*, 38: 249-255. DOI.10.1007/s10295-010-0820-8.
251. Muhammad Rizwan, Yasir Rehman, Muhammad Faisal and Shahida Hasnain. 2011. Seasonal effects of domestic wastewater on the Cr (VI) reduction potential of *Bacillus cereus* S-6 and *Ochrobactrum intermedium* CrT-1. *Biology and Environment*. 111B: 33-40.
252. Syed Kashif Nawaz and Shahida Hasnain . 2011. Association of ACE ID and ACE G2350A polymorphism with increased blood pressure in persons exposed to different sound levels in Pakistan *International Archives of Occupational and Environmental Health*.84(4): 355-360.
253. Sajid, I., Shaaban, K. A. and Hasnain, S. 2011. Antitumor Compounds from a Saline Soil Isolate *Streptomyces griseoincarnatus* CTF15. *Natural Product Research*, 25(5): 549-559.
254. Waqas Nasir Chaudhry, Nazia Jamil, Iftikhar Ali, Mian Hashim Ayaz and Shahida Hasnain. 2010. Screening for polyhydroxyalkanoate (PHA)-producing bacterial strains and comparison of PHA production from various inexpensive carbon sources. *Annals of Microbiology*.61: 623-629.

- DOI10.1007/s13213-010-0181-6.
255. Furrukh Mahmood Alvi, Anwar Choudhri and Shahida Hasnain. 2011. Blood selenium status in normal Punjabi population of Pakistan, *Journal of Biological Tarce Elements Research*, 143: 163-166. DOI:10.1007/s12011-010-8867-y
 256. Imran Sajid; Khaled A. Shaaban; Shahida Hasnain. 2011 Identification, isolation and optimization of antifungal metabolites from the *Streptomyces malachitofuscus* ctf9. *Brazilian Journal of Microbiology*. 42:592-604.
 257. Anwar Hussain and Shahida Hasnain. 2011. Interactions of bacterial cytokinins and IAA in the rhizosphere may alter phytostimulatory efficiency of rhizobacteria. *World Journal of Microbiology and Biotechnology*, 27: 2645-2654.
 258. Syed Kashif Nawaz and Shahida Hasnain. 2011. Effect of ACE polymorphisms on the association between noise and hypertension in a Pakistani population. *Journal of the Renin-Angiotensin-Aldosterone System*. XX(X): 1-5.
 259. Syed Kashif Nawaz and Shahida Hasnain. 2011. Effects of noise exposure on catalase activity of growing lymphocytes. *Bosnian Journal of Basic Medical science*, 11(4):164-167.
 260. Hussain, N., Jaffery, G, Sabri, A.N. and Hasnain, S. 2011. Mutational Analysis of *CTLA4* Gene in PAKISTANI SLE Patients. *World Academy of Science, Engineering and Technology*, 78:316-318
 261. Sumaira Mazhar and Shahida Hasnain, 2011. Screening of native plant growth promoting cyanobacteria and their impact on *Triticum aestivum* var Uqab 2000 growth. *African Journal of Agricultural Research*. 6(17):3988-3993.
 262. Syed Muhammad Akmal Rahim, Shahida Hasnain and Jabeen Farkhanda. 2011. Effect of calcium, magnesium, sodium and potassium on farm plantations of various agroecological zones of Punjab, Pakistan. *Botanika: African Journal of Plant Sciences*, 5:1-11
 263. Syed Muhammad Akmal Rahim, Shahida Hasnain and Jabeen Farkhanda, 2011. Effect of nitrogen and phosphorous on Farm Plantations in various agroecological zones of Punjab, Pakistan. *African Journal of Environmental Science and Technology*, 5(11) :964-971
 264. Saba Riaz, Muhammad Faisal and Shahida Hasnain. 2011. Antibiotic susceptibility pattern and multiple antibiotic resistances (MAR) calculation of extended spectrum β -lactamase (ESBL) producing *Escherichia coli* and *Klebsiella* species in Pakistan. *African Journal of Biotechnology*,, 10 (33): 6325-633.
 265. Nighat Naheed, Nazia Jamil and Shahida Hasnain. 2011. Screening of contaminated soils for biodegradable plastic producing bacteria and profiling of their resistance markers. *African Journal of Microbiological Research*, 5(24): 4097-4104.
 266. Saba Riaz, Muhammad Faisal, Shahida Hasnain and Naveed Ahmad Khan, 2011. Antimicrobial and cytotoxic activities of *Acacia nilotica* Lam (Mimosaceae) methanol extracts against extended spectrum beta-lactamase producing *Escherichia coli* and *Klebsiella* species. *Tropical Journal of Pharmaceutical research*, 10(6):785-791.
 267. Shahzadi Noreen, Basharat Ali and, Shahida Hasnain. 2012. Growth promotion of *Vigna mungo* (L.) by *Pseudomonas* spp. exhibiting auxin production and ACC-deaminase activity. *Annals of Microbiology*, 62: 411-417 DOI:10.1007/s13213-011-0277-7
 268. Rabia Tanvir, Rubeena Hafeezand Shahida Hasnain. 2012. Prevalence of Multiple Drug Resistant *Escherichia coli* in Patients of Urinary Tract Infection Registering at a Diagnostic Laboratory in Lahore, Pakistan. *Pak J. Zool.*, vol. 44(3), 707-712
 269. Hira Muzzamal, Rabbia Sarwar, Imran Sajid and Shahida Hasnain. 2012. Isolation,identification and screening of endophytic bacteria antagonistic to biofilm formers. *Pakistan Journal of Zoology*, 44(1): 249-257.
 270. Samreen Sarwar, Mehboob Ahmed, Shahida Hasnain, 2012. Phylogenomic analysis of polyketide synthase genes in actinomycetes: Structural analysis of KS domains and modules of polyketide synthases. *International Journal of Computational Biology and Drug Design* ,5:89-110.

271. Rida Batool, Kim Yarjala and Shahida Hasnain. 2012. Hexavalent chromium reduction by bacteria from tannery effluent. *Journal of Microbiology and Biotechnology*, 22 (4):547-554.
272. Cody S. Sheik, Tyler W. Mitchell, Fariha Z. Rizvi, Yasir Rehman, Muhammad Faisal, Shahida Hasnain, Michael J. McInerney, Lee R. Krumholz. 2012. Exposure of Soil Microbial Communities to Chromium and Arsenic Alters Their Diversity and Structure. *PLoS ONE*, 7(6): e40059
273. Abdul Hameed and Shahida Hasnain. 2012. Isolation and molecular identification of metal resistant *Synechocystis* from polluted areas. *African Journal of Microbiology Research*, 6(3), pp. 648-652.
274. Anwar Hussain and Shahida Hasnain. 2012. Comparative assessment of the efficacy of bacterial and cyanobacterial phytohormones in plant tissue culture. *World Journal of Microbiology and Biotechnology*, 28: 1459-1466.
275. Sikander Sultan and Shahida Hasnain. 2012. Chromium (VI) Reduction by Cell Free Extract of *Ochrobactrum anthropi* Isolated from Tannery Effluent. *Bulletin of Environmental Contamination and Toxicology*, 89: 152-157.
276. Munuaza Kiran, Shazia Afrasayab, Zaigham Abbas, Muhammad Faisal, and Shahida Hasnain. 2012. Plant growth promoting capability of *Azotobacter* as mono and mix culture on *Vigna radiata*. *African Journal of Microbiology Research*, 6: 1291-1296.
277. Nighat Naheed, Nazia Jamil, Shahida Hasnain and Ghulam Abbas. 2012. Biosynthesis of polyhydroxybutyrate in *Enterobacter* sp. SEL2 and *Enterobacteriaceae* bacterium sp. PFW1 using sugar cane molasses as media. *African Journal of Biotechnology*, 11(16) 3321-3332.
278. Junaid Ahmed Khan, Hafiz Muhammad Imran Arshad, Kamran Saleem, Ahmed Faraz Sandhu, Shahida Hasnain, Muhammad Masood Babar, 2012. Evaluation of resistance genes in rice against local isolates of *Xanthomonas oryzae* pv. *oryzae* in Punjab Province of Pakistan. *Archives of Phytopathology and Plant Protection*, 45(15):1826-1839.; DOI:10.1080/03235408.2012.712830
279. Warda Fatima, Adeela Shahid, Muhammad Imran, Jaida Manzoor, Shahida Hasnain, Sobia Rana, Saqib Mahmood. 2011. Leptin deficiency and *leptin* gene mutations in obese children from Pakistan. *International Journal of Pediatric Obesity*, 6(5+6): 419-427 DOI: 10.3109/17477166.2011.608431.
280. Atia Iqbal and Shahida Hasnain. 2013. *Aeromonas punctata* PNS-1: a promising candidate to change the root morphogenesis of *Arabidopsis thaliana* in MS and sand system. *Acta Physiologiae Plantarum*. 35(3):657-665. DOI: 10.1007/s11738-012-1106-8
281. Sajid; I., Shaaban; K. A. and Hasnain, S. 2013. Purification and identification of bioactive angucyclinones from *Streptomyces matensis* BG5, isolated from the rhizosphere of *Rosa indica* L., *Preparative Biochemistry & Biotechnology* 01/2013; 43(1):22-32.
282. Syed Kashif Nawaz and Shahida Hasnain, 2013. Occupational noise exposure may induce oxidative DNA damage. *Polish Journal of Environmental Studies* 22(5):1547-1551.
283. Rabia Tanvir, Imran Sajid, Shahida Hasnain, 2013. Screening of endophytic Streptomyces isolated from *Parthenium hysterophorus* L. against nosocomial pathogens. *Pakistan Journal of Pharmaceutical Sciences*, 26(2):277-283
284. R. Tanvir, I. Sajid, and S. Hasnain, 2013. Screening for Type I Polyketide Synthases Genes of Endophytic *Streptomyces* Isolated from *Parthenium hysterophorus* L. *Molecular Genetics, Microbiology and Virology*, 28, No. 1, 32-39.
285. Rabia Tanvir, Imran Sajid, Shahida Hasnain. 2013. Biotechnological potential of endophytic actinomycetes associated with Asteraceae plants: isolation, biodiversity and bioactivities. *Biotechnology Letters* (Impact Factor: 1.85). **36**: 767-773. DOI:10.1007/s10529-013-1430-0
286. Yasir Rehman and Shahida Hasnain, 2013. Metagenomics to unveil Microbiome of human body (editorial). *Journal of Bacteriology and Parasitology*, 4(1):1000e118.

287. Yasir Rehman, Fariha Zakria Rizvi, Muhammad Faisal and Shahida Hasnain, 2013. Arsenic and chromium reduction in co-cultures of bacteria isolated from industrial sites in Pakistan. *Microbiology*, 82:428-433.
288. Atia Iqbal and Shahida Hasnain, 2013. Auxin Producing *Pseudomonas* Strains: Biological Candidates to Modulate the Growth of *Triticum aestivum* Beneficially. *American Journal of Plant Sciences*, 2013, 4, 1693-1700
289. Syed Muhammad Akmal Rahim, Shahida Hasnain, Farkhanda Jabeen, 2013. Land classification for choice of tree species on farm lands in the Attock District of Punjab, Pakistan, *Forestry Studies in China* 08/2013; 13(4). DOI:10.1007/s11632-013-0407-3
290. Sumaira Mazhar, Jerry D. Cohen and Shahida Hasnain. 2013. Auxin producing non-heterocystous Cyanobacteria and their impact on the growth and endogenous auxin homeostasis of wheat. *Journal of Basic Microbiology*, 53(12): 1521-4028. DOI - 10.1002/jobm.201100563
291. Imran Sajid, Khaled A. Shaaban and Shahida Hasnain. 2014. Purification and Structure Elucidation of the Polyether Antibiotic Alborixin from *Streptomyces pulcher* CRF17. *British Journal of Pharmaceutical Research*, 4(6): 695-704.
292. Faiz Ahmed Raza, Shafiq ur Rehman, Ruqyya Khalid, Jameel Ahmad, Sajjad Ashraf, Mazhar Iqbal, Shahida Hasnain, 2014. Demographic and clinico-epidemiological features of Dengue fever in Faisalabad, Pakistan. *PLOS One*, 9(3): e89868
293. Ahmed, M., Stal, L. J. and Hasnain, S. 2014. *Leptolyngbya* sp. MMG-1 from rice field: morphological studies and auxin synthesis potential. *Revista de Biología Tropical*, 62(3): 1251-1260.
294. Ahmed, M., Moerdijk, T., Wijnholads, A., Stal, L. J. and Hasnain, S. 2014. Isolation, characterization and localization of exo-polysaccharides from cyanobacterium *Arthrospira platensis* Strain MMG-9. *European Journal of Phycology*, 49(2) :143-150.
295. Ahmed, M., Stal, L. J. and Hasnain, S. 2014. Biofilm Formation and Indole 3-Acetic Acid Production by Two Rhizospheric Unicellular Cyanobacteria, *Journal of Microbiology and Biotechnology*, 24(8): 1015-1025.
296. Rimsha Munir, Hina Usman, Shahida Hasnain, Karine Smans, Hubert Kalbacher and Nousheen Zaidi. 2014. A typical plasma lipid profile in cancer patients: Cause or consequence? *Biochimie*, 4435: 1-10. (review artical)
297. Mehboob Ahmed, Lucas J. Stal & Shahida Hasnain, 2014. The morphology and bioactivity of the rice field cyanobacterium *Leptolyngbya*, Rev. Biol. Trop. (Int. J. Trop. Biol. ISSN-0034-7744) Vol. 62 (3): 1251-1260.
298. Rabia Tanvir, Imran Sajid, Shahida Hasnain, 2014. Larvicidal potential of Astraceae family endophytic actinomycetes against *Culex quinquefasciatus* mosquito larvae. *Natural Product Research*. 28:1-5.
299. Chaudhry M, Hasnain S, Snitz BE, Wang X, Rosenthal S, Demirci FY, Kamboh MI. 2014. Association of APOE polymorphisms and stressful life events with dementia in a Pakistani population. *Neuroscience Letters*. 570:42-46. doi: 10.1016/j.neulet.2014.04.008.
300. Fatima Ameer, Lisa Scandiuzzi, Shahida Hasnain, Hubert Kalbacher, Nousheen Zaidi. 2014. *De novo* lipogenesis in health and disease. *Metabolism - Clinical and Experimental*, 63 (7): 895–902.
301. Rida Batool, Kim Yrjala and Shahida Hasnain. 2014. Impact of environmental stress on biochemical parameters of bacteria reducing chromium. *Brazilian Journal of Microbiology*, 45(2): 573-583.
302. Ambreen Ahmad and Shahida Hasnain. 2014. Auxins as one of the factors of plant growth improvement by plant growth promoting rhizobacteria. *Polish Journal of Microbiology*, 63 (3): 261-266
303. Rida Batool and Shahida Hasnain, 2014. Cr+6 removal by indigenous bacteria in conjunction with different biowaste materials: an ecofriendly approach, *J. Chil. Chem. Soc.*, 59 (3): 2582-2587.
304. Rida Batool, Kim Yrjälä and Shahida Hasnain, 2014. Impact of environmental stress on biochemical parameters of bacteria reducing chromium. *Brazilian journal of microbiology* 45, 2, 573-583

305. Muhammad Ammar Athar · Ali Akbar · Yasir Hayat Khan · Imran Ali · Uqba Mehmood · Anjum Naseem Sabri · Shahida Hasnain. 2014. Characterization of Hydrocarbon Degrading Bacteria Isolated from Hydrocarbon Contaminated Soil . Journal of Pure and Applied Microbiology, 8(6):4509-4516.
306. Rida Batool, Kim Yrjälä and Shahida Hasnain, 2015. Alleviation of phyto-toxic effects of chromium by inoculation of chromium (vi) reducing *Pseudomonas aeruginosa* Rb-1 and *Ochrobactrum intermedium* Rb-2. International Journal Of Agriculture & Biology, 17: 21-30
307. Humaira Yasmineen and Shahida Hasnain. 2015. *In vitro* antioxidant effect of *Camellia sinensis* on human cell cultures. Pak. J. Pharm. Sci., 28(5):1573-1581
308. Saadia Ijaz and Shahida Hasnain. 2015. Antioxidant potential of indigenous cyanobacterial strains in relation with their phenolic and flavonoid contents. *Natural Product Research* ahead-of-print (2015): 1-4.
309. Abdul Hameed and Shahida Hasnain. 2015. Sequencing of glutathione synthetase gene from the chromium resistant *synechocystis* sp. AHZ-HB-MK and AHZ-HB-P2A. Science International, 27(3): 2235-2243
310. Abdul Hameed and Shahida Hasnain. 2015. Role of metal detoxification by glutaredoxin gene and its isolation from chromium resistant cyanobacteria. Science International, 27(2): 1219-1224
311. Shabana and Shahida Hasnain, 2015. Association of the leptin receptor Gln223Arg polymorphism with lipid profile in obese Pakistani subjects. Nutrition, 31(9): 1136-1140
312. Hina Usman, Rida Rashid, Fatima Ameer, Areeb Iqbal, Muhammad Zaid, Shahida Hasnain, Hubert Kalbacher, Nousheen Zaidi, 2015. Revisiting the dyslipidemia associated with acute leukemia. Clinica Chimica Acta, 444, 43-49.
313. Shabana and Shahida Hasnain, 2015. The fatty acid binding protein 2 (FABP2) and obesity in Pakistan: A population based study and a systematic meta-analysis. Gene, 574(1):106-111. DOI:10.1016/j.gene.2015.07.087
314. Batool, R., Yrjälä, K. and Hasnain, S. 2015. Study on cellular changes and potential endotrophy of wheat roots due to colonization of Chromium reducing bacteria. International Journal of Environmental Science and Technology, 12(10): 3263-3273. DOI 10.1007/s13762-015-0757-6.
315. Rida Batool, Kim Yrjälä, Kamran Shaukat, Nazia Jamil and Shahida Hasnain, 2015. Production of EPS under Cr(VI) challenge in two indigenous bacteria isolated from a tannery effluent. Journal of Basic Microbiology, 55(9): 1064-1074. DOI: 10.1002/jobm.201400885
316. Chaudhry, M., Wang, X., Bamne, M.N., Hasnain, S., Demirci, F.Y., Lopez, O.L., Kamboh, M.I. 2015. Genetic Variation in Imprinted Genes is Associated with Risk of Late-Onset Alzheimer's disease. Journal of Alzheimer 's Disease, 44, 3; 989-994.
317. Chaudhry, M., Hasnain, S., Wang, SB., Bamne, MN., Rosenthal, S., Demirci, FY, Kamboh, MI., Snitz, BE, 2015. Association analysis of 23 susceptibility loci with risk of dementia in a Pakistani population. Psychiatry Research, 225: (1-2): 223-224
318. Shabana, Shahida Hasnain , 2015. Prevalence of R236G mutation in Pakistan Obesity Research & Clinical Practice 11/2015; DOI:10.1016/j.orcp.2015.10.007
319. Shahbana and Shahida Hasnain, 2015. Effect of common FTO (Fat mass and obesity association) gene variants on obesity in Pakistani population. A case control study. Biomed Research International, <http://dx.doi.org/10.1155/2015/852920>.
320. Seher Mahmood, Yasir Rehman and Shahida Hasnain. 2015. Cross kingdom pathogenicity across plants and human beings.Journal of Bacteriology and Parasytology, 6(4): (Editorial) 1000e124.
321. Sinha Liaqat, Shahida Hasnain, Saima Muzammil, Sumreen Hayat, 2015. Polymorphism analysis in estrogen receptors alpha and beta genes and their association with infertile population in Pakistan. EXCLI Journal 10/2015; 14:1085-1094. DOI:10.17179/excli2015-559
322. Shabana and Hasnain, S. 2016. Obesity, More than a 'Cosmetic' Problem. Current Knowledge and Future Prospects of Human Obesity Genetics. Biochemical Genetics 54(1):1-28 .

323. Shabana and Hasnain S. 2016. Leptin promoter variant G2548A is associated with serum leptin and HDL-C levels in a case control observational study in association with obesity in a Pakistani cohort. *Journal of Biosciences*. 41(2):251-255.
324. Rabia Tanvir, Imran Sajid, Shahida Hasnain, Andreas Kulik and Stephanie Grond, 2016. Rare actinomycetes *Nocardia caishijiensis* and *Pseudonocardia carboxydivorans* as endophytes, their bioactivity and metabolites evaluation. *Microbiological Research*, 185: 22–35
325. Shahid SU, Shabana, Rehman A, Hasnain S. 2016. Role of a common variant of Fat Mass and Obesity associated (FTO) gene in obesity and coronary artery disease in subjects from Punjab, Pakistan: a case control study. *Lipids Health Disease*.15(1):29. doi: 10.1186/s12944-016-0200-0..
326. Shabana and Hasnain S. 2016. The p. N103K mutation of leptin (LEP) gene and severe early onset obesity in Pakistan. *Biological Research*. 49(23):1-5. doi: 10.1186/s40659-016-0082-7.
327. Shahzadi S, Shabana, Chaudhry M, Arooj I, Hasnain S 2016. A Single-Nucleotide Polymorphism in C12orf43 Region is Associated with the Risk of Coronary Artery Disease in a Pakistani Cohort. *Biochemical Genetics*.54: 676-68
328. Usman, H., Ameer, F., Munir, R., Iqbal, A., Zaid, M., Hasnain, S., Scandiuzzi, L., N. Zaidi, 2016. Leukemia cells display lower levels of intracellular cholesterol irrespective of the exogenous cholesterol availability. *Clin Chim Acta*, 457:12-17.
329. Raza, F., Sabri, A.N, Rehman, A and Hasnain, S, 2016. Characterization of thermophilic alkaline lipase produced by *Staphylococcus aureus* suitable for leather and detergent industries. *Iranian Journal of Science and Technology. Transaction A, Science*, In press. on line on
330. Shabana, Shahid, S.U., Li, K.W., Acharya, J., Cooper, J. A., Hasnain, S., Humphries, S. E.2016. Effect of six type 2 diabetes susceptibility loci and the FTO variant rs9939609 on Obesity in Pakistani Obese subjects'. *European Journal of Human Genetics*, 24(6): 903-910.
331. Humaira Yasmeen, Shahida Hasnain, Sarmad Toma, Natalie Killeen, Letizia Foroni, 2016. Molecular characterization of the beta globin gene of thalassemia reveals new and rare mutations in Pakistani population. *Eur J Med Genet*, 59(8): 255-362.
332. Shabana and Shahida Hasnain.2016. Prevalence of R236G mutation in Pakistan. *Obesity Research and Clinical Practice*. 10S: S110-116.
333. Huma Butt, Shabana and Shahida Hasnain, 2016. The C1431T polymorphism of peroxisome proliferator activated receptor γ (PPAR γ) is associated with low risk of diabetes in a Pakistani cohort. *Diabetology & Metabolic Syndrome*, 8:67
334. Batoor, F., Rehman, Y. and Hasnain, 2016. Phylloplane associated plant bacteria of commercially superior wheat varieties exhibit superior plant growth promoting abilities. *Frontiers in Life Sciences*, 9(4): 313-322.
335. Yasmeen, H. and Hasnain, S. 2016. Comparative Analysis of Different Bioactivities of *Curcuma longa*, *Nigella sativa* Seeds and *Camellia sinensis* extracted by four different methods: A green way to reduce oxidative stress. *Food Science Biotechnology*, 25(3): 811-819.
336. Hammad Tufail Chaudhary, Shahida Hasnain. 2016. Can dipstick method help in bacterial detection in platelet bags? A tertiary care hospital's blood bank r. *Journal of the Pakistan Medical Association*, 66(10):1258-1261.
337. Hammad Tufail Chaudhary, Shahida Hasnain. 2016. In-silico analysis; analysis of s-303 binding to cd-61 of platelets. *Professional Medical Journal*, 23(2): 217-222.
338. Alajlani, M; Shiekh, A; Hasnain, S; Brantner, A. 2016. Purification of Bioactive Lipopeptides Produced by *Bacillus subtilis* Strain BIA. *Chromatographia*, 79(21): 1527-1532.
339. Siddiqua, A., Rehman, Y. and Hasnain, S. 2016. Rhizoplane microbiota of superior wheat varieties possess enhanced plant growth promoting abilities that contribute to superior growth of the varieties. *Frontiers in Biology*, 11(6):481-487.
340. Ameer, F., Munir, R., Usman, H., Rashid, R., Shahjahan, M., Hasnain, S., and Zaidi, N. 2017. Lipid-load in peripheral blood mononuclear cells: Impact of food-consumption, dietary-macronutrients, extracellular lipid availability and demographic factors. *Biochimie*, 135: 104-110.

341. Zaid, M., Ameer, F., Munir, R., Rashid, R., Farooq, N., Hasnain, S., and Zaidi, N. 2017. Anthropometric and metabolic indices in assessment of type and severity of dyslipidemia. *Journal of Physiological Anthropology*, 36(1): 19-28.
342. Zahid Mukhtar and Shahida Hasnain, 2017. Transgenic basmati rice transformed with the Xa21 gene shows resistance against bacterial leaf blight. *Turkish Journal of Botany*, 41: 1-10. TÜBİTAK doi:10.3906/bot-1602-17.
343. Warda Fatima, Shahida Hasnain, Saqib Mahmood, 2017. Gene-environment interactions in schizophrenia: features from a Pakistani family. *Punjab University Journal of Zoology*, 32 (1): 021-024
344. Qamar N, Rehman Y, Hasnain S. 2017. Arsenic-resistant and plant growth promoting Firmicutes and γ -Proteobacteria species from industrially polluted irrigation water and corresponding cropland. *Journal of Applied Microbiology*. 123(3):569-779. doi: 10.1111/jam.13535.
345. Qadeer MI, Amar A, Mann JJ, Hasnain S (2017) Polymorphisms in dopaminergic system genes; association with criminal behavior and self-reported aggression in violent prison inmates from Pakistan. PLoS ONE 12(6): e0173571. <https://doi.org/10.1371/journal.pone.0173571>
346. Uqba Mehmood · Shahida Hasnain, 2017. Evidence of involvement of proteins in germination of germination defective spores of bacillaceae, with alanine. *International Journal of Technical Research & Science(online)*, 2(1): 30-35.
347. Anwar Hussain, Ihsan Ullah, Shahida Hasnain, 2017. Microbial Manipulation of Auxins and Cytokinins in Plants. In: Methods in Molecular Biology, book series (MIMB, volume 1569), pp 61-72.
348. Tanvir, R.; Sajid, I.; Hasnain, S. 2017. Diversity of Bioactive Endophytic Streptomyces sp. Residing in a Common Weed, Parthenium hysterophorus (Asteraceae: Heliantheae). In *Proceedings of the 3rd Int. Electron. Conf. Med. Chem.*, 1–30 November 2017; Sciforum Electronic Conference Series, Vol. 3, 2017 ; doi:10.3390/ecmc-3-04704
349. Shabana, Farah Ehsan and Shahida Hasnain. 2017 Association of Gly482Ser Variant of PPARGC1 α Gene with Diabetes in Pakistani Population. *Pakistan J. Zoology*, Vol. 49 (5): 1933-1936
350. Fatima W, Mahmood S, Hasnain S, Rana NH, Khan NS, Naeem F, Ayub M. Parental Consanguineous Marriages are Associated with Early Age of Onset of Schizophrenia in a Pakistani Cohort. *International Journal of Human Genetic*., 2017, 17 (3):135-139
351. Sana Khurshid; Chand Zahid; Shahida Hasnain. 2017. Indoleacetic Acid Production and Chromium Reduction By Cyanobacteria Synechocystis Sp. P2a (Chroococcales) Immobilized In Alginate Beads. *Biosci. J.*, Überlândia, 33 (6) 1592-1600
352. Mehwish Yousaf, Yasir Rehman, Shahida Hasnain. 2017. High-yielding wheat varieties harbour superior plant growth promoting-bacterial endophytes. *Applied Food Biotechnology*, 4 (3):143-154
353. Faiz Ahmed Raza, Anjum Nasim Sabri, Abdul Rehman, Shahida Hasnain. 2017. Characterization of Thermophilic Alkaline Lipase Produced by *Staphylococcus aureus* Suitable for Leather and Detergent Industries. *Iranian Journal of Science and Technology, Transactions A: Science*, 41(2): 287–294
354. Uqba Mehmood and Shahida Hasnain. 2017. Antimicrobial activity of pseudomonas spp under different pH, temperature and nutritional values. *International Journal of Science and Research (IJSR)* 6(6):6-391
355. Shabana, Saleem Ullah Shahid, Shahida Hasnain, 2018. Identification of genetic basis of obesity and mechanistic link of genes and lipids in Pakistani population, *Bioscience Reports BSR20180281*; DOI: 10.1042/BSR20180281
356. Zaid, M. and Hasnain, S. 2018. Plasma lipid abnormalities in Pakistani population: trends, associated factors, and clinical implications. *Brazilian Journal of Medical and Biological Research*. 51(9): e7239. Doi.org/10.1590/1414.431X20187239
357. Faiz Ahmad Raza, Sajjad Ashraf, Shahida Hasnain, Jameet Ahmad and Mazhar Iqbal. 2018. Dengue seroprevalence and its socioeconomic determinants in Faisalabad, Pakistan: a cross-sectional study. *Revista da Sociedade Brasileira de Medicina Tropical*, 51(4):503-507: doi:10. 1590/8682-0246-2017

358. Shabana, Saleem Ullah Shahid and Shahida Hasnain. 2018. Use of a gene score of multiple low-modest effect size variants can predict the risk of obesity better than the individual SNPs. *Lipids in Health and Disease*, 17:155
359. Iqra Arooj, and Shahida Hasnain. 2018. Association of Loci 6q25.1/rs6922269 and 9p21.3/rs1333049 with Risk of Coronary Heart Disease in Patients Visiting Hospitals of Gujranwala and Lahore Divisions. *Pakistan Journal of Zoology*, 50(6): 2295-2300.
360. Faiz Ahmad Raza, Mazhar Iqbal, Jameet Ahmad and Shahida Hasnain 2018. Epidemiological features of Dengue fever in a four year hospital-based study in Faisalabad, Pakistan. *Journal of Fatima Jinnah Medical University*, 12: 50-55
361. Sarfraz, M. and Hasnain, S. 2018. Inhibitor method based detection of Amp C beta lactamases producing *Escherichia coli* and *Klebsiella pneumoniae* among clinical isolates in Lahore. *Pakistan Punjab University Journal of Zoology*.33(2): 107-111.
362. Zahid Mukhtar and Shahida Hasnain. 2018. Optimization of particle bombardment conditions for rice (*Oryza sativa* L.) transformation. *Pakistan Journal of Agricultural Sciences* 55(2):271-278. DOI: 10.21162/PAKJAS/18.3678
363. Sumaira Mazhar, Jerry David Cohen and Shahida Hasnain. 2019. Novel Approach for the Determination of Nitrogen Fixation in Cyanobacteria. *Journal of the Chemical Society of Pakistan*, 41, No. 02, April 2019 41 (Issue 1) 105- 112.
364. Ammara Khalid, Sara Aslam, Mehboob Ahmed, Shahida Hasnain, Aimen Aslam. 2019. Risk assessment of *FLT3* and *PAX5* variants in B-acute lymphoblastic leukemia: a case-control study in a Pakistani cohort. *PeerJ— the Journal of Life and Environmental Sciences*, 7: e719 <https://doi.org/10.7717/peerj.7195>
365. Humaira Yasmin and Shahida Hasnain. 2019. Epidemiology and risk factors of transfusion transmitted infections in thalassemia major: a multicenter study in pakistan. *Hematology, Transfusion and Cell Therapy*, 41 (4): 316-323. (Revista Brasileira de Hematologia e Hemoterapia). <https://doi.org/10.1016/j.htct.2019.03.008>
366. Humaira Yasmeen, Shahida Hasnain. 2019. Quality of Life of Pakistani Children with β-Thalassemia Major. *Hemoglobin* 42(5+6):320-326, DOI: 10.1080/03630269.2018.1553183
367. Sana Riaz, Mahboob Ahmad and Shahida Hasnain. 2020. Virtual screeing of antitumour phytochemical against peroxisome proliferators activated receptor protiens PPARs. *Pakistan Journal of Pharmaceutical Sciences*. 33: 379-383. [Doi.org/10.36721/PJPS](https://doi.org/10.36721/PJPS)
368. Sadia Bashir, AtiaI qbal and Shahida Hasnain. 2020. Comparative analysis of endophytic bacterial diversity between two varieties of sunflower *Helianthus annuus* with their PGP evaluation. *Saudi Journal of Biological Sciences*. 27(2): 720-726.
369. Warda Fatima, Sabeen Riaz, Muhammad Aiman Shahzad, Zara Naz, Saqib Mahmood and Shahida Hasnain, 2020. Chromosomal region 1q24.1 is associated with increased risk of schizophrenia in Pakistani population. *Gene* 734:144390. DOI: 10.1016/j.gene.2020.144390
370. Gur Charn Singh, Mehboob Ahmed, Muhammad Zaid and Shahida Hasnain. 2020. Biochemical, serological, and genetic aspects related to gene HLA-DQB1 and its association with type 1 diabetes mellitus (T1DM). *Molecular Genetics and Genomic Medicine*. 8(5): 1147, DOI: 10.1002/mgg3.1147
371. Naila Noureen, Mohsin Tassawar Cheema, Sumaira Anwar, Shahida Hasnain, and Imran Sajid. 2020. PCR-based Screening Approach: A Rapid Method to Detect the Biosynthetic Potential of Antimicrobials in Actinobacterial Strains. *Polish Journal of Microbiology*, 69(2): 139–149. doi: 10.33073/pjm-2020-016
372. Ambreen Ahmaed and Shahida Hasnain. 2020. Extraction and evaluation of bacterial IAA from *Enterobacter*, *Bacillus*, *Halomonas*, *Cronobacter*, *Exiguobacterium*, *Kushneria* and *Arthrobacter* spp. *Journal of Animal and Plant Sciences*. 30(4): 1024-1036.
373. Sumbal Sarwar, Shabana and Shahida Hasnain. 2020. Classification of ventricular septal defects (vsds) on the basis of genetics. *Pakistan Heart Journal*, 53(4): 285-291.
374. Hafsa Amat-ur-Rasool, Fenella Symes, David Tooth, Larissa-Nele Schaffert, Ekramy Elmorsy, Mehboob Ahmed, Shahida Hasnain and Wayne G. Carter. 2020. Potential Nutraceutical Properties of

- Leaves from Several Commonly Cultivated Plants. *Biomolecules*, 10 (11): 1556. doi 10.3390/biom10111556
375. Sumbal Sarwar, Shabana, Farah Ehsan, Amna Tahir, Mahrukh Jamil, Saleem Ullah Shahid, Shahida Hasnain, Asim Khan and Syed Najam Hyder, 2020. Hematological and demographic profile of Pakistani children with isolated ventricular septal defects (VSDs). *Egyptian Journal of Medical Human Genetics* **volume 21**, Article number: 36
376. Saiqa Razi, Shahida Hasnain, Byung-Gee-Kim. 2020. Proteomic Analysis of Cr (VI) Reducing *Synechocystis* sp. AHZ-HB-MK and its Mutant Obtained by Gamma Irradiation. *LGUJLS*, 4 (02): 172-184.
377. Tahira Fatima, Sabika Rafiq, Atia Iqbal and Shahida Hasnain. 2020. Prevalence and Antibiogram of MDR *E. coli* Strains Isolated from UTI Patients—1-Year Retrospective Study at Nishtar Medical Hospital, Multan. *SN Comprehensive Clinical Medicine* 2(12). DOI: [10.1007/s42399-020-00246-8](https://doi.org/10.1007/s42399-020-00246-8)
378. Saleem S, Iqbal A, Hasnain S. 2020. Bacterial mediated silver nanoparticles and their efficacy against MRSA. *Tropical Biomedicine*, 37(2):482-488. PMID: 33612817
379. Hafsa Amat-ur-Rasool, Mehboob Ahmed, Shahida Hasnain and Wayne G. Carter. 2021. Anti-Cholinesterase Combination Drug Therapy as a Potential Treatment for Alzheimer's Disease. *Brain Science*, 11(2), 184; <https://doi.org/10.3390/brainsci11020184>
380. Muhammad Imran Qadeer, Ali Amar, Yung-Yu Huang, Eli Min, Hanga Galfalvy, Shahida Hasnain & J. John Mann. 2021. Association of serotonin system-related genes with homicidal behavior and criminal aggression in a prison population of Pakistani Origin. *Scientific Reports*, 11, Article No: 1670
381. Sumbal Sarwar, Shabana, Shahida Hasnain (2021) Association of variable number of tandem repeats (VNTR) and T941G polymorphism of monoamine oxidase (MAO-A) gene with aggression in Pakistani subjects. *African Health Sciences*, Vol. 21(1); 180-188.
382. Sumbal Sarwar, Farah Ehsan, Shabana, Amna Tahir, Mahrukh Jamil, Saleem Ullah Shahid, Asim Khan & Shahida Hasnain. (2021) First report of polymorphisms in *MTRR*, *GATA4*, *VEGF*, and *ISL1* genes in Pakistani children with isolated ventricular septal defects (VSD). *Italian Journal of Pediatrics* **volume 47**, Article number: 70
383. Sadia Bashir, Atia Iqbal, Shahida Hasnain and James Francis White. 2021. Screening of sunflower associated bacteria as biocontrol agents for plant growth promotion. *Archives of Microbiology*, 203, 4901–4912
384. Faiz Ahmed Raza, Hasnain Javed, Muhammad Mujeeb Khan, Obaid Ullah, Areeba Fatima, Muhammad Zaheer, Saima MohsinID, Shahida Hasnain, Ruqyya KhalidID, Arslan Ahmed Salam. 2021. Dengue and Chikungunya virus co-infection in major metropolitan cities of provinces of Punjab and Khyber Pakhtunkhwa: A multi-center study. *PLOS Neglected Tropical Diseases*.15(9): e0009802.
385. Syeda Zainab Ilyas, Sumbal Sarwar, Shabana, Shahida Hasnain. 2021. Association of PPAR Gamma Gene Polymorphism; C161T with Diabetes in Population of Pakistan *The Journal Of Microbiology And Molecular Genetics*, 2(1): 31-43. DOI: <https://doi.org/10.52700/jmmg.v2i1.27>
386. Sumbal Sarwar, Shabana, Amna Tahir, Zainab Liaqat, Saher Naseer, Rani Summeya Seme, Sabahat Mehmood, Saleem Ullah Shahid & Shahida Hasnain. 2022. Study of variants associated with ventricular septal defects (VSDs) highlights the unique genetic structure of the Pakistani population *Italian Journal of Pediatrics*, 48, Article number: 124
387. Hafsa Amat-ur-Rasool, Mehboob Ahmed, Shahida Hasnain, Abrar Ahmed, Wayne Grant Carter. 2022. In Silico Design of Dual-Binding Site Anti-Cholinesterase Phytochemical Heterodimers as Treatment Options for Alzheimer's disease. *CIMB (Current Issues In Molecular Biology)*, 44(1): 152-175 [10.3390/cimb44010012](https://doi.org/10.3390/cimb44010012)
388. Malika Uzma, Atia Iqbal, Shahida Hasnain. 2022. Drought tolerance induction and growth promotion by indole acetic acid producing *Pseudomonas aeruginosa* in *Vigna radiata*. *PLOS ONE*, 17(2): e0262932 <https://doi.org/10.1371/journal.pone.0262932>

PUBLICATIONS IN FOREIGN / IMPACT FACTOR JOURNALS

Sr. No.	Author, Title (s), Journal's details	IF
1.	Hasnain, S., Sammons, R., Roberts, I. and Thomas, C.M. 1985. Cloning and deletion analysis of genomic segment of <i>Bacillus subtilis</i> coding for <i>sdh A. B. C.</i> (Succinate dehydrogenase) and <i>gerE</i> (spore germination) loci. <i>Journal of General Microbiology</i> , 131 :2269-2279. (now MICROBIOLOGY SGM)	2.268
2.	Hasnain, S., and Thomas, C.M. 1986. Construction of a novel gene bank of <i>Bacillus subtilis</i> using low copy number vector in <i>Escherichia coli</i> . <i>Journal of General Microbiology</i> , 132 :1863-1874. (now MICROBIOLOGY SGM)	2.268
3.	Philips, M.K., Hederstedt, L., Hasnain, S., Rutberg, L. and Gust, J.R. 1987. Nucleotide sequence encoding the flavoprotein and iron sulfur protein subunits of the <i>Bacillus subtilis</i> PY79 succinate dehydrogenase complex. <i>Journal of Bacteriology</i> , 169 :864-873.	3.586
4.	Hasnain, S. and Taskeen, N. 1989. Characterization of salt tolerant bacteria isolated from the rhizosphere of <i>Leptochloa fusca</i> and <i>Atriplex rhogodoides</i> . <i>Pakistan Journal of Pharmaceutical Science</i> , 2(2) :47-53.	0.682
5.	Hasnain, S., and Sabri, A.N. 1990. Gram-negative bacteria harbouring mercury resistant plasmid and some factors affecting conjugal plasmid transfer. <i>Pakistan Journal of Zoology</i> , 22(4) :335-343.	0.478
6.	Hasnain, S. and Sherwani, S. 1991. Plasmid stability analysis under various levels of antibiotic (kanamycin) selection pressure. <i>Pakistan Journal of Zoology</i> , 23(4) :291-295.	0.478
7.	Hasnain, S. and Sabri, A.N. 1992. Effects of temperatures and pH on conjugal transfer of zinc-resistant plasmids residing in Gram-negative bacteria isolated from industrial effluents. <i>Environmental Pollution</i> , 76(3) :245-249.	4.143
8.	Qazi, S.H.A. and Hasnain, S. 1992. Comparative studies of <i>Agrobacterium tumefaciens</i> from different plants of Punjab. <i>Pakistan Journal of Zoology</i> , 24(4) :333-339.	0.478
9.	Sabri, A.N. and Hasnain, S. 1992. Identification of hybrid plasmid capable of reverting spore forming ability of <i>Bacillus subtilis divIVA</i> mutant strain. <i>Pakistan Journal of Zoology</i> , 24(2) :321-327.	0.478
10.	Hasnain, S., Zafar, F., Bilal, R. and Malik, K.A. 1993. Characterization of diazotrophs associated with the roots of <i>Leptochloa fusca</i> (L) Kunth. <i>Pertanika Journal of Tropical Agricultural Science</i> , 16(1) :17-24.	Malaysia
11.	Hasnain, S., Yasmin, S. and Yasmin, A. 1993. Effects of lead resistant <i>Pseudomonads</i> on growth of <i>Triticum aestivum</i> seedling under lead stresses. <i>Environmental Pollution</i> , 81 :179-184.	4.143
12.	Yasmin, A. and Hasnain, S. 1993. Salt tolerant rhizoplane and histoplane bacteria from <i>Desmostachya bipinnata</i> and <i>Heleochochloa schnoites</i> . <i>Pakistan Journal of Zoology</i> , 25(1) :27-35.	0.478
13.	Sabri, A.N. and Hasnain, S. 1994. Temperature effects on cell morphology of <i>divIVA⁺</i> and <i>divIVA⁻</i> transformants of <i>Bacillus subtilis</i> . <i>Pakistan Journal of Zoology</i> , 26(2) :149-161.	0.478
14.	Sultan, S. and Hasnain, S. 1994. Conjugal transfer of chromium resistant plasmids residing in Pseudomonads. <i>Pakistan Journal of Zoology</i> , 26(3) :219-226	0.478
15.	Qazi, S.H.A. and Hansain, S. 1994. Transformation and auxin independent growth of <i>Brassica oleracea</i> calli mediated by salt tolerant oncogenic <i>Agrobacterium tumefaciens</i> strains. <i>Pakistan Journal of Zoology</i> , 26(4) : 293-300.	0.478
16.	Sabri, A.N. and Hasnain, S. 1994. Effect of pH on the cell morphology of <i>divIVA⁺</i> and <i>divIVA⁻</i> transformants of <i>Bacillus subtilis</i> . <i>Pakistan Journal of Zoology</i> , 26(4) :309-320.	0.478

17.	Sabri, A.N., and Hasnain, S. 1996. Starvation effects on the cell morphology of <i>divIVA</i> ⁺ and <i>divIVA</i> ⁻ transformants of <i>Bacillus subtilis</i> . <i>Pakistan Journal of Zoology</i> , 28(1) :25-33.	0. 478
18.	Hasnain, S. and Sherwani, S.K. 1996. Altered stability of hybrid plasmid by deleting genomic segments of <i>Bacillus subtilis</i> . <i>Pakistan Journal of Zoology</i> , 28(2) :109-114.	0. 478
19.	Sabri, A.N. and Hasnain, S. 1996. Effects of temperature and pH on the peptidoglycan content of <i>divIVA</i> ⁺ and <i>divIVA</i> ⁻ strains of <i>Bacillus subtilis</i> . <i>Pakistan Journal of Zoology</i> , 28(2) :145-150.	0. 478
20.	Sabri, A.N. and Hasnain, S. 1996. Spore germination analysis of <i>Bacillus subtilis</i> <i>divIVA</i> mutant strain in ALA and AGFK system. <i>Pakistan Journal of Zoology</i> , 28(3) :213-224.	0. 478
21.	Qazi, S.H.A. and Hasnain, S., 1996. <i>Agrobacterium tumefaciens</i> from some plants of Pakistan. Host range, host specificity and T-DNA expression in tissue culture. <i>Pakistan Journal of Zoology</i> , 28(4) :283-290.	0. 478
22.	Sabri, A.N. and Hasnain, S. 1996. Polypeptide products in <i>divIVA</i> ⁺ and <i>divIVA</i> ⁻ strains of <i>Bacillus subtilis</i> under varying temperature, pH and starvation conditions. <i>Pakistan Journal of Zoology</i> , 28(4) :303-309.	0. 478
23.	Hasnain, S., Akhtar, N. and Sabri, A.N. 1996. Alleviation of cadmium toxicity and growth enhancement of <i>Helianthus annuus</i> and <i>Triticum aestivum</i> seedling through bacterial inoculation. <i>Pertanika Journal of Tropical Agricultural Science</i> , 19(2-3) :163-169	Malaysia
24.	Hasnain, S. and Thomas, C.M. 1996. Two related rolling circle replication plasmids from salt tolerant bacteria. <i>Plasmid</i> . 36 :191-199.	1.732
25.	Qazi, S.H.A and Hasnain, S. 1997. Plasmid associated salt tolerance property of <i>Agrobacterium tumefaciens</i> from plants of Punjab, <i>Pakistan Journal of Zoology</i> , 29(1) :7-13.	0. 478
26.	Qazi, S.H.A. and Hasnain, S. 1997. Host range and host specificity spectrum of indigenous <i>Agrobacterium tumefaciens</i> strains from Pakistan. <i>Pakistan Journal of Zoology</i> . 29(2) :113-122.	0. 478
27.	Yasmin, A., and Hasnain, S. 1997. Moderately halophilic bacteria associated with the roots of <i>Chenopodium album</i> , <i>Oxalis corniculata</i> and <i>Lycium edgeworthii</i> . <i>Pakistan Journal of Zoology</i> , 29(3) :249-257.	0. 478
28.	Hasnain, S. and Sabri, A.N. 1997. Growth stimulation of <i>Triticum aestivum</i> seedlings under Cr-stresses by non rhizospheric pseudomonad strains. <i>Environmental Pollution</i> . 97 (3) :265-273.	4.143
29.	Afrasayab, S. and Hasnain, S. 2001. Salt tolerant bacteria differential affecting the growth of <i>Triticum aestivum</i> varieties under NaCl stresses. <i>Pakistan Journal of Botany</i> , 33 (special issue):605-617.	0.658
30.	Faisal, M. and Hasnain, S. 2001. Reduction of toxic hexavalent chromium by bacterial strains isolated from effluents of tanneries. <i>Pakistan Journal of Botany</i> , 33 (special issue):605-617.	0.658
31.	Sultan, S. and Hasnain, S. 2003. Pseudomonad strains exhibiting high level Cr(VI) resistance and Cr(VI) detoxification potential. <i>Bulletin of Environmental Contamination and Toxicology</i> , 71 (3) :473-480.	1.191
32.	Mehmood, U and Hasnain, S. 2003. Evidence of nutrient induced spore germination in bacteria from stress environment. <i>Pakistan Journal of Botany</i> , 35 (5) :835-842	0.658
33.	Faisal. M and Hasnain.S 2003. Accumulation and reduction of Cr (VI) in industrial effluent by <i>Bacillus</i> sp- strain CrM-1. <i>Pakistan Journal of Botany</i> , 35 (5) :797-804	0.658
34.	Faisal, M and Hasnain, S. 2004. Comparative Study of Cr(VI) Reduction in Industrial Effluent by <i>Ochrobactrum intermedium</i> vs. <i>Bravibacterium</i> sp. <i>Biotechnology Letters</i> , 26(21) : 1623-1628.	1.639
35.	Faisal, M and Hasnain, S. 2004. Microbial Conversion of Cr (VI) in to Cr (III) in Industrial Effluent. <i>African Journal of Biotechnology</i> , 3(11) :610-617.	0.578
36.	Ahmad, H. and Hasnain, S. 2004. Meiotic analysis in the induced autotetraploids of <i>Brassica</i>	China

	rapa. <i>Acta Botanica Yunnanica</i> , 26 (3) :321-328	
37.	Ashraf, M., Hasnain, S., Berge, O. and Mahmood, T. 2004. Inoculating wheat seedlings with exopolysaccharide-producing bacteria restricts sodium uptake and stimulates plant growth under salt stress. <i>Biology and Fertility of Soils</i> , 40 : 157-162.	3.069
38.	Faisal, M and Hasnain, S. 2004. Bacterial Reduction of Toxic Cr (VI) in to Cr (III). <i>Chinese Journal of Biotechnology</i> , 20 (5) :774-778	5.0
39.	Saeed, M., Behjatnia, S.A.A. Mansoor, S. Zafar, Y. Hasnain, S. and Rezaian, M.A. 2005. A Single Complementary-Sense Transcript of a Geminiviral DNA beta Satellite Is Determinant of Pathogenicity. <i>Molecular Plant Microbe Interactions</i> , 18 (1) :7-14.	4.145
40.	Faisal, M; Hameed, A and Hasnain, S. 2005. Chromium resistant bacteria and cyanobacteria: Impact on Cr(VI) reduction potential and plant growth. <i>Journal of Industrial Microbiology Biotechnology</i> , 32 :615-621.	2.732
41.	Faisal, M. and Hasnain, S. 2005. Chromate reductant <i>Bacillus cereus</i> augments Sunflower growth by reducing toxicity of Cr (VI). <i>Journal of Plant Biology</i> , 48 (2) :187-194.	1.671
42.	Faisal, M and Hasnain, S. 2005. Bacterial Cr (VI) reduction concurrently improves <i>Helianthus annuus</i> growth. <i>Biotechnology Letters</i> , 27(13) : 943-947.	1.639
43.	Faisal, M and Hasnain, S. 2005. Beneficial role of hydrophytes in removing Cr(VI) from wastewater along with bacterial strains. <i>International Journal of Phytoremediation</i> , 7(2) :271-277.	2.085
44.	Faisal, M. and Hasnain, S. 2005. Colonization of <i>Vigna radiata</i> roots by chromium resistant bacterial strains of <i>Ochrobactrum intermedium</i> , <i>Bacillus cereus</i> and <i>Brevibacterium</i> sp. <i>Chinese Journal of Applied and Environmental Biology</i> , 11 :528-530.	China
45.	Sultan, S. and Hasnain, S. 2005. Chromate reduction capable of a gram-positive bacterium isolated from effluent of dying industry. <i>Bulletin of Environmental Contamination and Toxicology</i> , 75(4) :699-706.	1.191
46.	Hameed, A. and Hasnain S (2005). Cultural characteristics of chromium resistant unicellular cyanobacteria isolated from local environment in Pakistan. <i>Chinese Journal of Oceanology and Limnology</i> , 23 :433-441.	0.547
47.	Faisal, M and Hasnain, S. 2005. Growth improvements of sunflower seedlings by chromium resistant bacteria. <i>Iranian Journal of Biotechnology</i> , 3(4) :114-120	0.309
48.	Faisal, M and Hasnain, S. 2006. Detoxification of Cr(VI) by <i>Bacillus cereus</i> . <i>Research Journal of Microbiology</i> , 1 (1) : 45-50.	0.52
49.	Faisal, M and Hasnain, S. 2006. Plant growth promotion by <i>Brevibacterium</i> under chromium stress. <i>Research Journal of Botany</i> , 1(1) :24-29.	USA
50.	Al-Ajlani, M. M. and Hasnain, S. 2006. Simple and rapid isolation of a novel antibiotic from <i>Bacillus subtilis</i> Mz-7. <i>Journal of Liquid Chromatography & Related Technologies</i> , 29(5) :639-647.	0.669
51.	Ashraf, M., Hasnain, S and Berge, O. 2006. Effect of exopolysaccharides producing bacterial inoculation on growth of roots of wheat (<i>Triticum aestivum</i> L.) plants grown in a salt-affected soil. <i>International Journal of Environmental Science and Technology</i> , 3(1) :43-51.	1.844
52.	Sultan, S. and Hasnain, S. 2006. Characterization of an <i>Ochrobactrum intermedium</i> strain STCr-5 manifesting high-level Cr(VI) resistance and reduction potential. <i>Enzyme and Microbial Technology</i> , 39(4) :883-888.	2.624
53.	Faisal, M and Hasnain, S. 2006. Hazardous Impact of Chromium on Environment and its appropriate Remediation. <i>Journal of Pharmacology and Toxicology</i> , 1(3) :248-258.	USA
54.	Kamran Shaukat, Shazia Afrasayab and Shahida Hasnain. 2006. Growth Responses of <i>Triticum aestivum</i> to plant Growth Promoting Rhizobacteria used as a Biofertilizer. <i>Research Journal of Microbiology</i> , 1(4) :330-338.	0.52
55.	Kamran Shaukat, Shazia Afrasayab and Shahida Hasnain. 2006. Growth Responses of <i>Helianthus annuus</i> to plant Growth Promoting Rhizobacteria used as a Biofertilizer.	USA

	<i>International Journal of Agricultural Research</i> , 1(6):573-581.	
56.	Hussain, N., Jaffery, G., Hasnain, S., and Anwar., M.S., 2006. Seroprevalence of Rubella IgG and IgM Infants Suspected of Having Rubella Infection. <i>Biomedica</i> , 22 (1):25-30.	0.587
57.	Razi, S., and Hasnain, S. 2006. Gamma irradiation: Impact on chromate resistant cyanobacteria. <i>Science Asia</i> , 32(1):107-111.	0.197
58.	Faisal, M and Hasnain, S. 2007. Growth stimulatory effect of <i>Ochrobatrum intermedium</i> and <i>Bacillus cereus</i> on <i>Vigna radiata</i> . <i>Letters in Applied Microbiology</i> , 43:461-466.	1.579
59.	Sultan, S. and Hasnain, S. 2007. Reduction of toxic hexavalent chromium by <i>Ochrobactrum intermedium</i> strain SDCr-5 stimulated by heavy metals. <i>Bioresource Technology</i> , 98(2):340-344.	4.917
60.	Basharat Ali and Shahida Hasnain, 2007. Efficacy of bacterial auxin on in vitro growth of <i>Brassica oleracea</i> L. <i>World Journal of Microbiology & Biotechnology</i> , 23:779-784	1.532
61.	Iftikhar, S., Faisal, M and Hasnain, S. 2007. Cytosolic reduction of Toxic Cr(VI) by Microorganism. <i>Research Journal of Environmental Sciences</i> , 1(2):77-81.	USA
62.	Basharat Ali and Shahida Hasnain, 2007. Potential of bacterial indole acetic acid to induce adventitious shoots in plant tissue culture. <i>Letters in Applied Microbiology</i> , 45:128-133.	1.579
63.	Anwar, S., Sabri, A.N and Shahida Hasnain. 2007. Study of varying temperature on bacterial cell morphology of wild type (PY79) and sporulation defective strains of <i>Bacillus</i> . <i>Research Journal of Microbiology</i> , 2 (1): 66-73.	0.52
64.	Muaaz Mutaz Al-Ajlani, Muhammad Abid Sheikh, Zeeshan Ahmad, Shahida Hasnain. 2007. Production of surfactin from <i>Bacillus subtilis</i> MZ-7 grown on pharmamedia commercial medium. <i>Microbial Cell Factories</i> 2007, 6:17	3.744
65.	Muaaz Mutaz Al-Ajlani and Shahida Hasnain (2007) Antagonistic activity against nosocomial clinical isolates with <i>Bacillus subtilis</i> MZ-7. <i>Annals of Microbiology</i> . 57(3): 419-424.	1.232
66.	Saira Anwar, Anjum Nasim Sabri, Hazir Rehman, Muhammad Faisal and Shahida Hasnain. 2007. Impact of Temperatures and pH on Soluble Protein Content and Protein Profile of PY79 (Wild Type) and Sporulation Defective Mutant Strains of <i>Bacillus</i> . <i>Research Journal of Microbiology</i> , 2(11): 866-870.	0.52
67.	Iqbal, U., Mehmood, S., Faisal, M and Hasnain, S. 2007. Chromosomal analysis of girls with short stature and puberty failure. <i>Trends in Medical Research</i> , 2(4): 2(4): 204-207.	USA
68.	Arshad, MU., Jamil, N., Naheed N and Hasnain, S. 2007. Analysis of bacterial strains from contaminated and non-contaminated sites for the production of biopolymers. <i>African Journal of Biotechnology</i> , 6(9): 1115-1121.	0.578
69.	Shafiq-ur-Rehman, Jamil, J and Hasnain, S. 2007. Screening of different contaminated environments for polyhydroxyalkonates- producing bacterial strains. <i>Biologia, Bratislava</i> , 626: 650-656	0.719
70.	Afrasyab, S., Faisal, M. and Hasnain, S. 2007. Induction of Salinity Tolerance in Plants through Indigenous Bacteria. In: <i>Application of Biotechnology</i> , Aavishkar publisher's distributers, India, pp98-119.	India
71.	Saima Zaidi, Azra Yasmin, Muhammad Faisal and Shahida Hasnain, 2007. Inoculation effect of bacteria isolated from <i>Trianthema portulacastrum</i> , <i>Rumex dentatus</i> , and <i>Coronopus Didymus</i> plants on <i>Vigna radiata</i> seedlings. <i>World Journal of Agricultural Sciences</i> , 3(6):796-800.	USA
72.	Ali, B. and Hasnain, S. 2007. <i>In vitro</i> plant growth induction potential of indoleacetic acid of <i>Halomonas desiderata</i> REI and <i>H. variabilis</i> HTI. <i>Proceedings of 12th Conference of Microbiology</i> ; Cairo, Egypt, March 18-20, 2007.	Egypt
73.	Ian Colbeck, Zaheer Ahmad Nasir, Shahida Hasnain and Sikander Sultan. 2008. Indoor Air Quality at Rural and Urban Sites in Pakistan. <i>Water Air Soil Pollution: Focus</i> , 8: 61-69.	1.551
74.	Najma Arshad, Shahida Hasnain and Hess Michael, 2008. Among several plant species	2.694

	tested only <i>Peganum harmala</i> or its β-carboline alkaloids inhibit in vitro the growth of certain antibiotics resistant strains of important bacteria and selected protozoa isolated from poultry. <i>Phytotherapy Research</i> , 22 :1533-1538.	
75.	N Arshad, C. Neubauer, S. Hasnain and M. Hess. 2008. <i>Peganum harmala</i> can minimize <i>Escherichia coli</i> infection in poultry, but long-term feeding may induce side effects. <i>Poultry Science</i> , 87 : 240-249.	1.685
76.	Khushi Muhammad, Azra Yasmin, Hazir Rehman, Muhammad Faisal and Shahida Hasnain. 2008. Growth responses of <i>Vigna radiata</i> to arid land bacteria exhibiting antimicrobial activity. <i>Research Journal of Environmental Sciences</i> , 2 (2):139-144.	USA
77.	Furrukh Mehmood Alvi and Shahida Hasnain. 2008. AGT gene variants in Pakistani Hypertensive population of Punjab. <i>Journal of the Renin-Angiotensin-Aldosterone System</i> , 9 (1):22-26.	2.350
78.	Hanif M., Saddiq A., Hasnain S., Ahmad S., Rabbani G. and Isab A. 2008. Preparation, spectral characterization and antibacterial studies of silver (I) complexes of 2-mercaptopypyridine and thiomalate. <i>Spectroscopy</i> , 22 :51-56.	0.418
79.	Rehman, A., Farooq, H. and Hasnain, S. 2008. Biosorption of copper by yeast, <i>Lodderomyces elongisporus</i> isolated from industrial effluents: its potential use in wastewater treatment. <i>Journal of Basic Microbiology</i> , 48 :195-201.	1.585
80.	Ambreen Ahmad, Anjum Nasim Sabri and Shahida Hasnain, 2008. Effect of varying temperature on growth, morphology and soluble protein content of <i>div IV</i> and <i>div V</i> mutant strains of <i>Bacillus subtilis</i> . <i>African Journal of Biotechnology</i> , 7 (10):1505-1511.	0.578
81.	Rehman, A., Zahoor, A., Muneer, B. and Hasnain, S. 2008. Chromium tolerance and reduction potential of a <i>Bacillus</i> sp.ev3 isolated from metal contaminated wastewater. <i>Bulletin of Environmental Contamination and Toxicology</i> , 81 :25-29	1.191
82.	Sajid, I., Shabaan, K. A., Frauendorf. H., Hasnain, S. and Laatsch. H. 2008. Val-Geninthiocin: MS structure elucidation of thiopeptide antibiotics produced by <i>Streptomyces</i> sp. RSF18. <i>Zeitschrift fur Natureforschung</i> , 63b :1223 - 1230	0.886
83.	Sajid, I., Yao. C .F, Shabaan, K. A., Hasnain, S. and Laatsch. H. 2008. Antifungal and antibacterial activities of indigenous <i>Streptomyces</i> isolates of saline farmlands, prescreening, ribotyping, and metabolic diversity. <i>World Journal of Microbiology & Biotechnology</i> , 25 :601-610.	1.532
84.	Nageen Hussain, Ghazala Jaffery, Anjum Nasim Sabri, Shahida Hasnain and Nighat Mir. 2008. Budd Chiari Syndrome in a Fifteen-Year Old girl with Systematic Lupus Erythematosus. <i>International Journal of Health Research</i> , 1 (2):45-49.	3.624
85.	Hussain, N., Jaffery, G. and Hasnain, S. 2008. Serum complement C3 and C4 levels in relation to diagnosis of lupus nephrosis. <i>Tropical Journal of Pharmaceutical Research</i> , 7 (4):1117-1121.	0.543
86.	Nageen Hussain, Ghazala Jaffery, and Shahida Hasnain. 2008. Association of ribosomal anti-P antibodies with different parameters of lupus. <i>African Journal of Biotechnology</i> , 7 (24):4437-4440.	0.578
87.	Ali, B., Sabri, A.N., Ljung, K. and Hasnain, S. 2009. Quantification of indol-3-acetic by plant associated <i>Bacillus</i> spp. And their phytostimulatory effect on <i>Vigna radiata</i> (L.). <i>World journal of Microbiology and Biotechnology</i> , 25 (3):519-526.	1.532
88.	Syed Kashif Nawaz, Samreen Riaz, Saba Riaz and Shahida Hasnain, 2009. Screening for anti-methicillin resistant <i>Staphylococcus aureus</i> (MRSA) bacteriocin producing bacteria. <i>African Journal of Biotechnology</i> , 8 (3):365-368.	0.578
89.	Ali, B., Sabri, A.N., Ljung, K. and Hasnain, S. 2009. Auxin production by plant associated bacteria: impact on endogenous IAA content and growth of <i>Triticum aestivum</i> L. <i>Letters in Applied Microbiology</i> . 48 :542-547.	1.579

90.	Syed Kashif Nawaz, Shahida Hasnain, .Pleiotropic effects of ACE polymorphism (Review Article). <i>Biochemia Medica</i> , 2009;19(1):36–49	3.051
91.	Ghafoor, A. and Hasnain, S. 2009. Production dynamics of <i>Bacillus subtilis</i> strain AG-1 and EAG-2, producing moderately alkaline proteases. <i>African Journal of Microbiology Research</i> , 3(5):258–263.	0.41
92.	Bashir, K., Hussain, N., Hasnain, S. and Elahi, S. 2009. Seroprevalence of hepatitis E virus immunoglobulin G and M antibodies in adults: A hospital-based study. <i>Indian Journal of Medical Microbiology</i> , 27(2):139-41	1.006
93.	Afia Ghafoor, Shahida Hasnain, 2009, Characteristics of an extracellular protease isolated from <i>Bacillus subtilis</i> AG-1 and its performance in relation to detergent components. <i>Annals of Microbiology</i> . 59 (3):559-563.	1.232
94.	Samreen Riaz, Saadia Shahzad Alam, Mehreen Raza, Shahida Hasnain and M. Waheed Akhtar. 2009. Obesity as risk factor and study of obesity related proteins in diabetes mellitus. <i>African Journal of Biotechnology</i> , 8 (5):737–744.	0.578
95.	Saba Riaz, Adeel Ahmad and Shahida Hasnain, 2009. Antibacterial activity of soaps against daily encountered bacteria, <i>African Journal of Biotechnology</i> ,8 (8):1431-1436	0.578
96.	Farrakh M. Alvi and Shahida Hasnain. 2009. ACE ID and G2350A Polymorphisms in Pakistani Hypertensive Population of Punjab. <i>Clinical and Experimental Hypertension</i> , 31(5): 471–480.	1.307
97.	Syed Kashif Nawaz and Shahida Hasnain, 2009. Comparison of the optimized conditions for genotyping of ACE ID polymorphism using conventional and direct blood PCR. <i>African Journal of Biotechnology</i> . 8 (20):5189-5192	0.578
98.	Anwar Hussain and Shahida Hasnain. 2009. Cytokinin production by some bacteria: Its impact on cell division in cucumber cotyledons. <i>African Journal of Microbiology Research</i> , 3(11):704-712	0.41
99.	Ambreen Ahmad and Shahida Hasnain, 2010. Auxin producing <i>Bacillus</i> sp.: Auxin quantification and effect on the growth of <i>Solanum tuberosum</i> . <i>Pure and Applied Chemistry</i> , 82(1):313-319.	2.615
100.	Abdul Rehman, S. Awais Butt and Shahida Hasnain. 2010. Isolation and characterization of arsennite oxidizing <i>Pseudomonas lubricans</i> and its potential use in bioremediation of wastewater. <i>African Journal of Biotechnology</i> , 9(10):1493-1498.	0.578
101.	Ghafoor, A. and Hasnain, S. 2010. Purification and characterization of extracellular protease from <i>Bacillus subtilis</i> EAG-2 strain isolated from ornamental plant nursery. <i>Polish Journal of Microbiology</i> . 59(2):107-112	0.750
102.	Attia Razzaq, Nazia Jamil, Nighat Naheed and Shahida Hasnain. 2010. Bacteria from contaminated urban and hilly areas as a source of polyhydroxyanoates production. <i>African Journal of Biotechnology</i> , 9:1919-1925.	0.578
103.	Riaz S, Nawaz S.K., Hasnain S. 2010. Bacteriocins produced by <i>L. fermentum</i> and <i>L.acidophilus</i> can inhibit cephalosporin resistant <i>E.coli</i> . <i>Brazilian Journal of Microbiology</i> . 41: 643-648.	0.865
104.	Anwer Hussain and Shahida Hasnain, 2010. Rapid determination of cytokinins and auxin in cyanobacteria. <i>Current Microbiology</i> , 61: 361-369.	1.519
105.	Shazia Afrasayab, Muhammad Faisal and Shahida Hasnain. 2010. Comparative study of wild and transformed salt tolerant bacterial strains on <i>Triticum aestivum</i> growth under salt stress. <i>Brazilian Journal of Microbiology</i> , 41(4):946-955.	0.865
106.	Uzma Iqbal, Nazia Jamil, Iftikhar Ali and Shahida Hasnain. 2010. Effect of zinc-phosphate-solubilizing bacterial isolates on growth of <i>Vigna radiate</i> . <i>Annals of Microbiology</i> , 60:243-248.	1.232
107.	Mehboob Ahmed, Lucas J. Stal and Shahida Hasnain, 2010. The production of indole-3-acetic acid by the cyanobacterium <i>Arthospira platensis</i> strain-MMG-9. <i>Journal</i>	1.685

	<i>Microbiology and Biotechnology</i> , 20(9) :1259-1265.	
108	Mehboob Ahmed, Lucas J. Stal and Shahida Hasnain, 2010. Associations of non-heterocystous cyanobacteria with crop plants. <i>Plant and Soil</i> , 336 :363-375.	2.969
109	Syed Kashif Nawaz and Shahida Hasnain, 2010. Noise induced hypertension and prehypertension in Pakistan. <i>Bosnian Journal of Basic Medical sciences</i> , 10(3) :239-244.	0.652
110	Syed Muhammad Akmal Rahim and Shahida Hasnain. 2010. Agroforestry trends in Punjab, Pakistan. <i>African Journal of Environmental Science and Technology</i> , 4(10) :639-650.	Nigeria
111	Saima Riaz, Muhammad Faisal and Shahida Hasnain. 2010. <i>Cicer arietinum</i> growth promotion by <i>Ochrobactrum intermedium</i> and <i>Bacillus cereus</i> in the presence of CrCl ₂ and K ₂ CrO ₄ . <i>Annals of Microbiology</i> , 60 : 729-733.	1.232
112	Malik, S., Kakar, N., Hasnain, S., Ahmad, j., Wilcox, ER and Naz, S. 2010. Epidemiology of Van der Woude syndrome from mutational analysis in affected patients from Pakistan. <i>Clinical Genetics</i> , 78 : 247-256.	3.892
113	Basharat Ali, Anjum Nasim Sabri and Shahida Hasnain. 2010. Rhizobacterial potential to alter auxin content and growth of <i>Vigna radiata</i> (L). <i>World Journal of Microbiology & Biotechnology</i> , 26 :1379-1384.	1.532
114	Abdul Rehman, Muhammad Sohail Anjum, and Shahida Hasnain.2010. Cadmium biosorption by yeast, <i>Candida tropicalis</i> CBL-1, isolated from industrial wastewater. <i>Journal of General and Applied Microbiology</i> , 56 :359-368	1.000
115	Hussain N., Jaffery G., Hasnain S. and Anjum Nasim Sabri. 2010. Angiotensin-converting enzyme gene ID polymorphism in Pakistani systemic lupus erythematosus patients. <i>African Journal of Biotechnology</i> , 9(48) :8134-8138.	0.578 Kenya
116	Syed Muhammad Akmal Rahim, Shahida Hasnain and R. A. Shamsi. 2010. Land suitability classification of trees species in district Rahim Yar Khan, Punjab, Pakistan. <i>African Journal of Agricultural Research</i> , 5(23) :3219-3229.	Nigeria
117	Anwar Hussain and Shahida Hasnain. 2011. Phytostimulation and biofertilization in wheat by cyanobacteria. <i>Journal of Industrial Microbiology & Biotechnology</i> , Springer, Germany, 38 :85-92.	2.745
118	Mehboob Ahmed, Lucas J. Stal and Shahida Hasnain. 2011. DTAF: an efficient probe to study cyanobacterial-plant interaction using confocal laser scanning microscopy (CLSM). <i>Journal of Industrial Microbiology & Biotechnology</i> , Springer, Germany, 38 :249-255.	2.745
119	Muhammad Rizwan, Yasir Rehman, Muhammad Faisal and Shahida Hasnain. 2011. Seasonal effects of domestic wastewater on the Cr (VI) reduction potential of <i>Bacillus cereus</i> S-6 and <i>Ochrobactrum intermedium</i> CrT-1. <i>Biology and Environment</i> , 111B : 33-40.	0.326
120	Syed Kashif Nawaz and Shahida Hasnain . 2011.Association of ACE ID and ACE G2350A polymorphism with increased blood pressure in persons exposed to different sound levels in Pakistan. <i>International Archives of Occupational and Environmental Health</i> , 84(4) :355-360.	2.061
121	Sajid, I.,Shaaban, K. A. and Hasnain, S.2011. Antitumor Compounds from a Saline Soil Isolate <i>Streptomyces griseoincarnatus</i> CTF15. <i>Natural Product Research</i> , 25(5) :549-559.	1.057
122	Waqas Nasir Chaudhry, Nazia Jamil, Iftikhar Ali, Mian Hashim Ayaz and Shahida Hasnain. 2010. Screening for polyhydroxyalkanoate (PHA)-producing bacterial strains and comparison of PHA production from various inexpensive carbon sources. <i>Annals of Microbiology</i> . 61 :623-629.	1.232
123	Furrukh Mahmood Alvi, Anwar Choudhri and Shahida Hasnain. 2011. Blood selenium status in normal Punjabi population of Pakistan. <i>Biological Trace Element Research</i> , 143 : 163-166.	1.798
124	Imran Sajid; Khaled A. Shaaban; Shahida Hasnain. 2011 Identification, isolation and optimization of antifungal metabolites from the <i>Streptomyces malachitofuscus</i> ctf9. <i>Brazilian Journal of Microbiology</i> . 42 :592-604.	0.865
125	Anwar Hussain and Shahida Hasnain. 2011. Interactions of bacterial cytokinins and IAA in	1.532

	the rhizosphere may alter phytostimulatory efficiency of rhizobacteria. <i>World Journal of Microbiology & Biotechnology</i> , 27 :2645-2654.	
126	Syed Kashif Nawaz and Shahida Hasnain. 2011. Effect of ACE polymorphisms on the association between noise and hypertension in a Pakistani population. <i>Journal of the Renin-Angiotensin-Aldosterone System</i> , 12(4) :516-520.	2.350
127	Syed Kashif Nawaz and Shahida Hasnain. 2011. Effects of noise exposure on catalase activity of growing lymphocytes. <i>Bosnian Journal of Basic Medical Sciences</i> , 11(4) :164-167.	0.652
128	Sumaira Mazhar and Shahida Hasnain, 2011. Screening of native plant growth promoting cyanobacteria and their impact on Triticum aestivum var Uqab 2000 growth. <i>African Journal of Agricultural Research</i> , 6(17) :3988-3993.	Nigeria
129	Syed Muhammad Akmal Rahim, Shahida Hasnain and Jabeen Farkhanda,2011. Effect of nitrogen and phosphorous on Farm Plantations in various agroecological zones of Punjab, Pakistan. <i>African Journal of Environmental Science and Technology</i> , 5(11) :964-971	
130	Saba Riaz, Muhammad Faisal and Shahida Hasnain. 2011. Antibiotic susceptibility pattern and multiple antibiotic resistances (MAR) calculation of extended spectrum β -lactamase (ESBL) producing <i>Escherichia coli</i> and <i>Klebsiella</i> species in Pakistan. <i>African Journal of Biotechnology</i> , 10 (33) :6325-633.	0.578 Kenya
131	Nighat Naheed, Nazia Jamil and Shahida Hasnain. Screening of contaminated soils for biodegradable plastic producing bacteria and profiling of their resistance markers. <i>African Journal of Microbiology Research</i> , 5(24) :4097-4104.	0.41 Nigeria
132	Saba Riaz, Muhammad Faisal, Shahida Hasnain and Naveed Ahmad Khan, 2011. Antimicrobial and cytotoxic activities of <i>Acacia nilotica</i> Lam (Mimosaceae) methanol extracts against extended spectrum beta-lactamase producing <i>Escherichia coli</i> and <i>Klebsiella</i> species. <i>Tropical Journal of Pharmaceutical Research</i> , 10(6) :785-791.	0.543
133	Shahzadi Noreen, Basharat Ali and, Shahida Hasnain. 2 012. Growth promotion of <i>Vigna mungo</i> (L.) by <i>Pseudomonas</i> spp. exhibiting auxin production and ACC-deaminase activity. <i>Annals of Microbiology</i> , 62 : 411-417	1.232
134	Rabia Tanvir, Rubeena Hafeezand Shahida Hasnain. 2012. Prevalence of Multiple Drug Resistant <i>Escherichia coli</i> in Patients of Urinary Tract Infection Registering at a Diagnostic Laboratory in Lahore, Pakistan. <i>Pakistan Journal of Zoology</i> , 44(3) :707-712	0.478
135	Hira Muzzamal, Rabbia Sarwar, Imran Sajid and Shahida Hasnain. 2012. Isolation,identification and screening of endophytic bacteria antagonistic to biofilm formers. <i>Pakistan Journal of Zoology</i> , 44(1) :249-257.	0.478
136	Samreen Sarwar, Mehboob Ahmed, Shahida Hasnain, 2012. Phylogenomic analysis of polyketide synthase genes inactinomycetes: Structural analysis of KS domains and modules of polyketide synthases. <i>International Journal of Computational Biology and Drug Design</i> , 5 :89-110	UK
137	Rida Batool, Kim Yarjala and Shahida Hasnain. 2012. Hexavalent chromium reduction by bacteria from tennary effluent. <i>Journal of Microbiology and Biotechnology</i> , 22(4) :547-554.	1.532
138	Cody S. Sheik, Tyler W. Mitchell, Fariha Z. Rizvi, Yasir Rehman, Muhammad Faisal, Shahida Hasnain, Michael J. McInerney, Lee R. Krumholz. 2012. Exposure of Soil Microbial Communities to Chromium and Arsenic Alters Their Diversity and Structure. <i>PLoS ONE</i> , 7(6) :e40059	3.057
139	Abdul Hameed and Shahida Hasnain. 2012. Isolation and molecular identification of metal resistant <i>Synechocystis</i> from polluted areas. <i>African Journal of Microbiology Research</i> , 6(3) :648-652	0.41 Kenya
140	Anwar Hussain and Shahida Hasnain.2012. Comparative assessment of the efficacy of bacterial and cyanobacterial phytohormones in plant tissue culture. <i>World Journal of Microbiology & Biotechnology</i> , 28 :1459-1466.	1.532

141	Sikander Sultan and Shahida Hasnain. 2012. Chromium (VI) Reduction by Cell Free Extract of <i>Ochrobactrum anthropi</i> Isolated from Tannery Effluent. <i>Bulletin of Environmental Contamination and Toxicology</i> , 89 :152-157.	1.191
142	Munuaza Kiran, Shazia Afrasayab, Zaigham Abbas, Muhammad Faisal, and Shahida Hasnain. 2012. Plant growth promoting capability of <i>Azotobacter</i> as mono and mix culture on <i>Vigna radiate</i> . <i>African Journal of Microbiology Research</i> , 6 :1291-1296	0.41 Kenya
143	Nighat Naheed, Nazia Jamil, Shahida Hasnain and Ghulam Abbas. 2012. Biosynthesis of polyhydroxybutyrate in <i>Enterobacter</i> sp. SEL2 and <i>Enterobacteriaceae</i> bacterium sp. PFW1 using sugar cane molasses as media. <i>African Journal of Biotechnology</i> , 11(16) :3321-3332	0.578 Kenya
144	Junaid Ahmed Khan, Hafiz Muhammad Imran Arshad, Kamran Saleem, Ahmed Faraz Sandhu, Shahida Hasnain, Muhammad Masood Babar, 2012. Evaluation of resistance genes in rice against local isolates of <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> in Punjab Province of Pakistan. <i>Archives of Phytopathology and Plant Protection</i> , 45(15) :1826-1839.	Germany
145	Warda Fatima, Adeela Shahid, Muhammad Imran, Jaida Manzoor, Shahida Hasnain, Sobia Rana, Saqib Mahmood. 2012. Leptin deficiency and <i>leptin</i> gene mutations in obese children from Pakistan. <i>International Journal of Pediatric Obesity</i> , 6 (5-6) :419-27 DOI: 10.310917477166.2011.608431.	2.276
146	Atia Iqbal and Shahida Hasnain. 2013. <i>Aeromonas punctata</i> PNS-1: a promising candidate to change the root morphogenesis of <i>Arabidopsis thaliana</i> in MS and sand system. <i>Acta Physiologiae Plantarum</i> , 35(3) :657-665 DOI: 10.1007s11738-012-1106-8	1.563
147	Sajid; I., Shaaban; K. A. and Hasnain,S. 2013. Purification and identification of bioactive angucyclinones from <i>Streptomyces matensis</i> BG5 isolated from the rhizosphere of <i>Rosa indica</i> L. <i>Preparative Biochemistry & Biotechnology</i> , 43(1) :22-32.	1.114
148	Syed Kashif Nawaz and Shahida Hasnain, 2013. Occupational noise exposure may induce oxidative DNA damage. <i>Polish Journal of Environmental Studies</i> 22(5) :1547-1551	0.790
149	Rabia Tanvir, Imran Sajid, Shahida Hasnain, 2013. Screening of endophytic Streptomycetes isolated from <i>Parthenium hysterophorus</i> L. against nosocomial pathogens. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 26(2) :277-283	0.581
150	R. Tanvir, I. Sajid, and S. Hasnain, 2013. Screening for Type I Polyketide Synthases Genes of Endophytic <i>Streptomyces</i> Isolated from <i>Parthenium hysterophorus</i> L. <i>Molecular Genetics, Microbiology and Virology</i> , 28(1) : 32–39.	0.183
151	Rabia Tanvir, Imran Sajid, Shahida Hasnain. 2013. Biotechnological potential of endophytic actinomycetes associated with Asteraceae plants: isolation, biodiversity and bioactivities. <i>Biotechnology Letters</i> , 36(4) :767-773 DOI:10.1007s10529-013-1430-0	1.639
152	Yasir Rehman and Shahida Hasnain, 2013. Metagenomics to unveil Microbiome of human body (editorial). <i>Journal of Bacteriology and Parasitology</i> , 4(1) :1000e118.	USA
153	Yasir Rehman, Fariha Zakria Rizvi, Muhammad Faisal and Shahida Hasnain, 2013. Arsenic and chromium reduction in co-cultures of bacteria isolated from industrial sites in Pakistan. <i>Microbiology</i> , 82 :428-433.	0.796
154	Atia Iqbal and Shahida Hasnain, 2013. Auxin Producing <i>Pseudomonas</i> Strains: Biological Candidates to Modulate the Growth of <i>Triticum aestivum</i> Beneficially. <i>American Journal of Plant Sciences</i> , 4 : 1693-1700	USA
155	Syed Muhammad Akmal Rahim, Shahida Hasnain, Farkhanda Jabeen, 2013. Land classification for choice of tree species on farm lands in the Attock District of Punjab, Pakistan. <i>Forestry Studies in China</i> , 13(4) :290-298. DOI:10.1007s11632-013-0407-3	China
156	Sumaira Mazhar, Jerry D. Cohen and Shahida Hasnain. 2013. Auxin producing non-heterocystous Cyanobacteria and their impact on the growth and endogenous auxin homeostasis of wheat. <i>Journal of Basic Microbiology</i> , 53(12) :996-1003 1521-4028. DOI - 10.1002/jobm.201100563	1.585
157	Imran Sajid, Khaled A. Shaaban and Shahida Hasnain. 2014. Purification and Structure	UK

	Elucidation of the Polyether Antibiotic Alborixin from <i>Streptomyces pulcher</i> CRF17. <i>British Journal of Pharmaceutical Research</i> , 4(6) :695-704.	
158	Faiz Ahmed Raza, Shafiq ur Rehman, Ruqya Khalid, Jameel Ahmad, Sajjad Ashraf, Mazhar Iqbal, Shahida Hasnain, 2014. Demographic and clinico-epidemiological features of Dengue fever in Faisalabad, Pakistan. <i>PLOS One</i> , 9(3) : e89868	3.057
159	Ahmed, M., Stal, L. J. and Hasnain, S. 2014. <i>Leptolyngbya</i> sp. MMG-1 from rice field: morphological studies and auxin synthesis potential. <i>Revista de Biología Tropical</i> (Accepted)	0.441
160	Ahmed, M., Moerdijk, T., Wijnholads, A., Stal, L. J. and Hasnain, S. 2014. Isolation, characterization and localization of exo-polysaccharides from cyanobacterium <i>Arthrosphaera platensis</i> Strain MMG-9. <i>European Journal of Phycology</i> , 49(2) :143-150	2.205
161	Ahmed, M., Stal, L. J. and Hasnain, S. 2014. Biofilm Formation and Indole 3-Acetic Acid Production by Two Rhizospheric Unicellular Cyanobacteria. <i>Journal of Microbiology and Biotechnology</i> , 24(8) :1015-1025	1.523
162	Rimsha Munir, Hina Usman, Shahida Hasnain, Karine Smans, Hubert Kalbacher and Nousheen Zaidi. 2014. A typical plasma lipid profile in cancer patients: Cause or consequence? <i>Biochimie</i> , 102 : 9-18 4435: 1-10. (review artical)	3.017
163	Mehboob Ahmed, Lucas J. Stal & Shahida Hasnain, 2014. The morphology and bioactivity of the rice field cyanobacterium <i>Leptolyngbya</i> , <i>Revista de Biología Tropical</i> , (Int. J. Trop. Biol. ISSN-0034-7744) 62 (3) : 1251-1260	0.61
164	Rabia Tanvir, Imran Sajid, Shahida Hasnain, 2014. Larvicidal potential of Astraceae family endophytic actinomycetes against <i>Culex quinquefasciatus</i> mosquito larvae. <i>Natural Product Research</i> . 28 :1-5.	1.057
165	Chaudhry M, Hasnain S, Snitz BE, Wang X, Rosenthal S, Demirci FY, Kamboh MI. 2014. Association of APOE polymorphisms and stressful life events with dementia in a Pakistani population. <i>Neuroscience Letters</i> . 570 :42-46. doi: 10.1016/j.neulet.2014.04.008.	2.107
166	Fatima Ameer, Lisa Scandiuzzi, Shahida Hasnain, Hubert Kalbacher, Nousheen Zaidi. 2014. <i>De novo</i> lipogenesis in health and disease. <i>Metabolism - Clinical and Experimental</i> , 63 (7) : 895–902.	4.375
167	Rida Batool, Kim Yrjala and Shahida Hasnain. 2014. Impact of environmental stress on biochemical parameters of bacteria reducing chromium. <i>Brazilian Journal of Microbiology</i> , 45(2) : 573-583.	0.865
168	Ambreen Ahmad and Shahida Hasnain. 2014. Auxins as one of the factors of plant growth improvement by plant growth promoting rhizobacteria. <i>Polish Journal of Microbiology</i> , 63(3) : 261–266	0.750
169	Rida Batool and Shahida Hasnain, 2014. Cr+6 removal by indigenous bacteria in conjunction with different biowaste materials: an ecofriendly approach. <i>Journal of Chilean Chemical Society</i> , 59(3) : 2582-2587.	0.429
170	Muhammad Ammar Athar · Ali Akbar · Yasir Hayat Khan · Imran Ali · Uqba Mehmood · Anjum Naseem Sabri · Shahida Hasnain. 2014. Characterization of Hydrocarbon Degrading Bacteria Isolated from Hydrocarbon Contaminated Soil . <i>Journal of Pure and Applied Microbiology</i> , 8(6) :4509-4516.	0.07
171	Rida Batool, Kim Yrjälä and Shahida Hasnain, 2015. Alleviation of phyto-toxic effects of chromium by inoculation of chromium (vi) reducing <i>Pseudomonas aeruginosa</i> Rb-1 and <i>Ochrobactrum intermedium</i> Rb-2. <i>International Journal Of Agriculture & Biology</i> , 17 :21-30	0.758
172	Humaira Yasmeen and Shahida Hasnain. 2015. <i>In vitro</i> antioxidant effect of <i>Camellia sinensis</i> on human cell cultures. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 28(5) :1573-1581	0.682
173	Saadia Ijaz and Shahida Hasnain. 2016. Antioxidant potential of indigenous cyanobacterial strains in relation with their phenolic and flavonoid contents. <i>Natural product</i>	1.057

	<i>research</i> , ahead-of-print (2015): 1-4. 30(11) :1297-1300	
174	Shabana, Hasnain S., 2015. Association of the leptin receptor Gln223Arg polymorphism with lipid profile in obese Pakistani subjects, <i>Nutrition</i> , 31(9) :1136-1140 doi: 10.1016/j.nut.2015.05.001	2.839
175	Hina Usman, Rida Rashid, Fatima Ameer, Areeb Iqbal, Muhammad Zaid, Shahida Hasnain, Hubert Kalbacher, Nousheen Zaidi, 2015. Revisiting the dyslipidemia associated with acute leukemia. <i>Clinica Chimica Acta</i> , 444 :43-49.	2.799
176	Shabana and Shahida Hasnain, 2015. The fatty acid binding protein 2 (FABP2) and obesity in Pakistan: A population based study and a systematic meta-analysis. <i>Gene</i> , 574(1) :106-111 DOI:10.1016/j.gene.2015.07.087	2.319
177	R. Batool, K. Yrjälä, S. Hasnain. 2015. Study on cellular changes and potential endotrophy of wheat roots due to colonization of Chromium reducing bacteria. <i>International Journal of Environmental Science and Technology</i> . 12(10) :3263-3272 DOI:10.1007/s13762-015-0757-6	2.344
178	Rida Batool, Kim Yrjälä, Kamran Shaukat, Nazia Jamil, Shahida Hasnain. 2015. Production of EPS under Cr(VI) challenge in two indigenous bacteria isolated from a tannery effluent: EPS Production under Cr(VI) stressed condition . <i>Journal of Basic Microbiology</i> . 55(9) : 1064-1073 DOI:10.1002/jobm.201400885 .	1.585
179	Chaudhry, M., Wang, X., Bamne, M.N., Hasnain, S., Demirci, F.Y., Lopez, O.L., Kamboh, M.I. 2015. Genetic Variation in Imprinted Genes is Associated with Risk of Late-Onset Alzheimer's disease. <i>Journal of Alzheimers Disease</i> , 44 (3) : 989-994.	3.920
180	Chaudhry, M., Hasnain, S., Wang, SB., Bamne, MN., Rosenthal, S., Demirci, FY, Kamboh, MI., Snitz, BE, 2015. Association analysis of 23 susceptibility loci with risk of dementia in a Pakistani population. <i>Psychiatry Research</i> , 225: (1-2) : 223-224	2.466
181	Shahbana and Shahida Hasnain, 2015. Effect of common FTO (Fat mass and obesity association) gene variants on obesity in Pakistani population. A case control study. <i>Biomed Research International</i> , volume 2015 Article ID 852920, 8 pages	2.134
182	Seher Mahmood, Yasir Rehman and Shahida Hasnain. 2015. Cross kingdom pathogenicity across plants and human beings. <i>Journal of Bacteriology and Parasytology</i> , 6(4) : (Editorial) 1000e124.	USA
183	Sinha Liaqat, Shahida Hasnain, Saima Muzammil, Sumreen Hayat, 2015. Polymorphism analysis in estrogen receptors alpha and beta genes and their association with infertile population in Pakistan. <i>EXCLI Journal</i> , 14 :1085-1094. DOI:10.17179/excli2015-559	1.292
184	Shabana and Hasnain, S. 2016. Obesity, More than a 'Cosmetic' Problem. Current Knowledge and Future Prospects of Human Obesity Genetics. <i>Biochemical Genetics</i> , 54(1) :1-28 .	0.952
185	Shabana and Hasnain S. 2016. Leptin promoter variant G2548A is associated with serum leptin and HDL-C levels in a case control observational study in association with obesity in a Pakistani cohort. <i>Journal of Biosciences</i> . 41(2) :251-255.	1.419
186	Rabia Tanvir, Imran Sajid, Shahida Hasnain, Andreas Kulik and Stephanie Grond, 2016. Rare actinomycetes <i>Nocardia caishijiensis</i> and <i>Pseudonocardia carboxydivorans</i> as endophytes, their bioactivity and metabolites evaluation. <i>Microbiological Research</i> , 185 : 22–35	2.723
187	Humaira Yasmeen and Shahida Hasnain. 2016. Comparative analysis of different bioactivities of Curcuma longa, Nigella sativa seeds and Camellia sinensis extracted from four different methods: A green way to reduce oxidative stress. <i>Food Science and Biotechnology</i> , 25(3) : 811-819	0.699
188	Shahid SU, Shabana, Rehman A, Hasnain S. 2016. Role of a common variant of Fat Mass and Obesity associated (FTO) gene in obesity and coronary artery disease in subjects from Punjab, Pakistan: a case control study. <i>Lipids Health Disease</i> . 15(1) :29. doi:	2.137

	10.1186/s12944-016-0200-0.	
189	Shabana and Hasnain S. 2016. The p. N103K mutation of leptin (LEP) gene and severe early onset obesity in Pakistan. <i>Biological Research</i> . 49(23) :1-5. doi: 10.1186/s40659-016-0082-7.	1.328
190	Shahzadi S, Shabana, Chaudhry M, Arooj I, Hasnain S. 2016. A Single-Nucleotide Polymorphism in C12orf43 Region is Associated with the Risk of Coronary Artery Disease in a Pakistani Cohort. <i>Biochemical Genetics</i> . 54 : 676-68	0.952
191	Usman, H., Ameer, F., Munir, R., Iqbal, A., Zaid, M., Hasnain, S., Scandiuzzi, L., N. Zaidi, 2016. Leukemia cells display lower levels of intracellular cholesterol irrespective of the exogenous cholesterol availability. <i>Clin Chim Acta</i> , 457 :12-17.	2.799
192	Raza, F., Sabri, A.N, Rehman, A and Hasnain, S, 2016. Characterization of thermophilic alkaline lipase produced by <i>Staphylococcus aureus</i> suitable for leather and detergent industries. <i>Iranian Journal of Science and Technology. Transaction A, Science</i> , In press. on line on	0.128
193	Shabana, Shahid, S.U., Li, K.W., Acharya, J., Cooper, J. A., Hasnain, S., Humphries, S. E.2016. Effect of six type 2 diabetes susceptibility loci and the FTO variant rs9939609 on Obesity in Pakistani Obese subjects'. <i>European Journal of Human Genetics</i> , 24(6) : 903-910.	4.580
194	Humaira Yasmeen, Shahida Hasnain, Sarmad Toma, Natalie Killeen, Letizia Foroni, 2016. Molecular characterization of the beta globin gene of thalassemia reveals new and rare mutations in Pakistani population. <i>European Journal of Medical Genetics</i> , 59(8) : 355-362.	1.810
195	Shabana, Shahida Hasnain, 2016. Prevalence of POMC R236G mutation in Pakistan <i>Obesity Research & Clinical Practice</i> , 10 :110-116 11/2015; DOI:10.1016/j.orcp.2015.10.007	2.094
196	Huma Butt, Shabana and Shahida Hasnain, 2016. The C1431T polymorphism of peroxisome proliferator activated receptor γ (PPAR γ) is associated with low risk of diabetes in a Pakistani cohort. <i>Diabetology & Metabolic Syndrome</i> , 8 :67	2.119
197	Batool, F., Rehman, Y. and Hasnain, 2016. Phylloplane associated plant bacteria of commercially superior wheat varieties exhibit superior plant growth promoting abilities. <i>Frontiers in Life Science</i> , 9(4) :313-322.	0.864
198	Alajlani, M; Shiekh, A; Hasnain, S; Brantner, A. 2016. Purification of Bioactive Lipopeptides Produced by <i>Bacillus subtilis</i> Strain BIA. <i>Chromatographia</i> , 79(21) :1527-1532.	1.332
199	Siddiq, A., Rehman, Y. and Hasnain, S. 2016. Rhizoplane microbiota of superior wheat varieties possess enhanced plant growth promoting abilities that contribute to superior growth of the varieties. <i>Frontiers in Biology</i> , 11(6) :481-487.	China
200	Hammad Tufail Chaudhary, Shahida Hasnain. 2016. Can dipstick method help in bacterial detection in platelet bags? A tertiary care hospital's blood bank r..Journal of the Pakistan Medical Association, 66(10) :1258-1261.	0.488
201	Ameer, F., Munir, R., Usman, H., Rashid, R., Shahjahan, M., Hasnain, S., and Zaidi, N. 2017. Lipid-load in peripheral blood mononuclear cells: Impact of food-consumption, dietary-macronutrients, extracellular lipid availability and demographic factors. <i>Biochimie</i> , 135 : 104-110.	3.017
202	Zaid, M., Ameer, F., Munir, R., Rashid, R., Farooq, N., Hasnain, S., and Zaidi, N. 2017. Anthropometric and metabolic indices in assessment of type and severity of dyslipidemia. <i>Journal of Physiological Anthropology</i> , 36(1) :19-28.	1.694
203	Uqba Mehmood · Shahida Hasnain, 2017. Evidence of involvement of proteins in germination of germination defective spores of bacillaceae, with alanine. International Journal of Technical Research & Science (online) 2(1): 30-35.	India

204	Zahid Mukhtar and Shahida Hasnain, 2017. Transgenic basmati rice transformed with the Xa21 gene shows resistance against bacterial leaf blight. <i>Turkish Journal of Botany</i> , 41: 1-10. TÜBİTAK doi:10.3906/bot-1602-17.	1.178
205	Warda Fatima , Shahida Hasnain , Saqib Mahmood, 2017. Gene-environment interactions in schizophrenia: features from a Pakistani family. <i>Punjab University Journal of Zoology</i> , 32 (1): 021-024	0.478
206	Qamar N, Rehman Y, Hasnain S. 2017. Arsenic-resistant and plant growth promoting Firmicutes and γ -Proteobacteria species from industrially polluted irrigation water and corresponding cropland. <i>Journal of Applied Microbiology</i> . 123(3):569-779. doi: 10.1111/jam.13535.	2.099
207	Qadeer MI, Amar A, Mann JJ, Hasnain S (2017) Polymorphisms in dopaminergic system genes; association with criminal behavior and self-reported aggression in violent prison inmates from Pakistan. PLoS ONE 12(6): e0173571. https://doi.org/10.1371/journal.pone.0173571	3.057
208	Anwar Hussain, Ihsan Ullah, Shahida Hasnain, 2017. Microbial Manipulation of Auxins and Cytokinins in Plants. In: Methods in Molecular Biology, book series (MIMB, volume 1569), pp 61-72.	
209	Tanvir, R.; Sajid, I.; Hasnain, S. 2017. Diversity of Bioactive Endophytic Streptomyces sp. Residing in a Common Weed, Parthenium hysterophorus (Asteraceae: Heliantheae). <i>In Proceedings of the 3rd Int. Electron. Conf. Med. Chem.</i> , 1–30 November 2017; Sciforum Electronic Conference Series, Vol. 3, 2017 ; doi:10.3390/ecmc-3-04704	
210	Shabana, Farah Ehsan and Shahida Hasnain. 2017 Association of Gly482Ser Variant of PPARGC1 α Gene with Diabetes in Pakistani Population. <i>Pakistan J. Zoology</i> , Vol. 49 (5): 1933-1936	0.478
211	Fatima W, Mahmood S, Hasnain S, Rana NH, Khan NS, Naeem F, Ayub M. Parental Consanguineous Marriages are Associated with Early Age of Onset of Schizophrenia in a Pakistani Cohort. <i>International Journal of Human Genetic</i> ., 2017, 17 (3):135-139	2.471
212	Sana Khurshid; Chand Zahid; Shahida Hasnain. 2017. Indoleacetic Acid Production And Chromium Reduction By Cyanobacteria Synechocystis Sp. P2a (Chroococcales) Immobilized In Alginate Beads. <i>Biosci. J.</i> , Überlândia, V. 33 (6): 1592-1600	0.404
213	Mehwish Yousaf, Yasir Rehman, Shahida Hasnain. 2017. High-yielding wheat varieties harbour superior plant growth promoting-bacterial endophytes. <i>Applied Food Biotechnology</i> , 4 (3):143-154	
214	Faiz Ahmed Raza, Anjum Nasim Sabri, Abdul Rehman, Shahida Hasnain. 2017. Characterization of Thermophilic Alkaline Lipase Produced by <i>Staphylococcus aureus</i> Suitable for Leather and Detergent Industries. <i>Iranian Journal of Science and Technology, Transactions A: Science</i> , 41(2): 287–294	0.732
215	Uqba Mehmood and Shahida Hasnain. 2017. Antimicrobial activity of pseudomonas spp under different pH, temperature and nutritional values. <i>International Journal of Science and Research (IJSR)</i> 6(6):6-391	
216	Shabana, Saleem Ullah Shahid, Shahida Hasnain, 2018. Identification of genetic basis of obesity and mechanistic link of genes and lipids in Pakistani population, <i>Bioscience Reports BSR20180281</i> ; DOI: 10.1042/BSR20180281	2.899
217	Zaid, M. and Hasnain, S. 2018. Plasma lipid abnormalities in Pakistani population: trends, associated factors, and clinical implications. <i>Brazilian Journal of Medical and Biological Research</i> . 51(9): e7239. Doi.org/10.1590/1414.431X20187239	0.61
218	Faiz Ahmad Raza, Sajjad Ashraf, Shahida Hasnain, Jameet Ahmad and Mazhar Iqbal. 2018. Dengue seroprevalence and its socioeconomic determinants in Faisalabad, Pakistan: a cross-sectional study. <i>Revista da Sociedade Brasileira de Medicina Tropica</i> , 51(4):503-507:	0.66

	doi:10. 1590/8682-0246-2017	
219	Shabana, Saleem Ullah Shahid and Shahida Hasnain. 2018. Use of a gene score of multiple low-modest effect size variants can predict the risk of obesity better than the individual SNPs. <i>Lipids in Health and Disease</i> , 17:155	2.663
220	Faiz Ahmad Raza, Mazhar Iqbal, Jameet Ahmad and Shahida Hasnain 2018. Epidemiological features of Dengue fever in a four year hospital-based study in Faisalabad, Pakistan. <i>Journal of Fatima Jinnah Medical University</i> , 12: 50-55	
221	Sarfraz, M. and Hasnain, S. 2018. Inhibitor method based detection of Amp C beta lactamases producing <i>Escherichia coli</i> and <i>Klebsiella pneumoniae</i> among clinical isolates in Lahore. <i>Pakistan Punjab University Journal of Zoology</i> . 33(2):107-111.	
222	Iqra Arooj, and Shahida Hasnain. 2018. Association of Loci 6q25.1/rs6922269 and 9p21.3/rs1333049 with Risk of Coronary Heart Disease in Patients Visiting Hospitals of Gujranwala and Lahore Divisions. <i>Pakistan Journal of Zoology</i> , 50(6): 2295-2300.	0.478
223	Zahid Mukhtar and Shahida Hasnain. 2018. Optimization of particle bombardment conditions for rice (<i>Oryza sativa</i> L.) transformation. <i>Pakistan Journal of Agricultural Sciences</i> 55(2):271-278. DOI: 10.21162/PAKJAS/18.3678	
224	Sumaira Mazhar, Jerry David Cohen and Shahida Hasnain. 2019. Novel Approach for the Determination of Nitrogen Fixation in Cyanobacteria. <i>Journal of the Chemical Society of Pakistan</i> , 41, No. 02, 105-112.	0.28
225	Ammara Khalid, Sara Aslam, Mehboob Ahmed, Shahida Hasnain, Aimen Aslam. 2019. Risk assessment of <i>FLT3</i> and <i>PAX5</i> variants in B-acute lymphoblastic leukemia: a case-control study in a Pakistani cohort. <i>PeerJ — the Journal of Life and Environmental Sciences</i> , 7: e719 https://doi.org/10.7717/peerj.7195	2.35
226	Humaira Yasmeen & Shahida Hasnain. 2019. Quality of Life of Pakistani Children with β -Thalassemia Major, Hemoglobin, 42 (5+6):320-325. DOI: 10.1080/03630269.2018.1553183	0.462
227	Humaira Yasmin and Shahida Hasnain. 2019. Epidemiology and risk factors of transfusion transmitted infections in thalassemia major: a multicenter study in pakistan. <i>Hematology, Transfusion and Cell Therapy</i> , 41 (4): 316-323. (Revista Brasileira de Hematologia e Hemoterapia). https://doi.org/10.1016/j.htct.2019.03.008	
228	Sadia Bashir, AtiaI qbal and Shahida Hasnain. 2020. Comparative analysis of endophytic bacterial diversity between two varieties of sunflower <i>Helianthus annuus</i> with their PGP evaluation. <i>Saudi Journal of Biological Sciences</i> 27(2): 720-726.	2.820
229	Warda Fatima, Sabeen Riaz, Muhammad Aiman Shahzad, Zara Naz, Saqib Mahmood and Shahida Hasnain, 2020. Chromosomal region 1q24.1 is associated with increased risk of schizophrenia in Pakistani population. <i>Gene</i> 734:144390. DOI: 10.1016/j.gene.2020.144390	2.638
230	Sana Riaz, Mahboob Ahmad and Shahida Hasnain. 2020. Virtual screeing of antitumour phytochemical against peroxisome proliferators activated receptor protiens PPARs. <i>Pakistan Journal of Pharmaceutical Sciences</i> . 33: 379-383. Doi.org/10.36721/PJPS	0.596
231	Gur Charn Singh, Mehboob Ahmed, Muhammad Zaid and Shahida Hasnain. 2020. Biochemical, serological, and genetic aspects related to gene HLA-DQB1 and its association with type 1 diabetes mellitus (T1DM). <i>Molecular Genetics and Genomic Medicine</i> . 8(5): 1147,. DOI: 10.1002/mgg3.1147	2.448
232	Naila Noureen, Mohsin Tassawar Cheema, Sumaira Anwar, Shahida Hasnain, and Imran Sajid. 2020. PCR-based Screening Approach: A Rapid Method to Detect the Biosynthetic Potential of Antimicrobials in Actinobacterial Strains. <i>Polish Journal of Microbiology</i> , 69(2): 139–149. doi: 10.33073/pjm-2020-016	0,897

233	Ambreen Ahmaed and Shahida Hasnain. 2020. Extraction and evaluation of bacterial IAA from Enterobacter, Bacillus, Halomonas, Cronobacter, Exiguobacterium, Kushneria and Arthrobacter spp. <i>Journal of Animal and Plant Sciences</i> . 30(4): 1024-1036.	0.233
234	Hafsa Amat-ur-Rasool, Fenella Symes, David Tooth, Larissa-Nele Schaffert, Ekramy Elmorsy, Mehboob Ahmed, Shahida Hasnain and Wayne G. Carter. 2020. Potential Nutraceutical Properties of Leaves from Several Commonly Cultivated Plants. <i>Biomolecules</i> , 10 (11): 10.3390/biom10111556	4.694
235	Saiqa Razi, Shahida Hasnain, Byung-Gee-Kim. 2020. Proteomic Analysis of Cr (VI) Reducing Synechocystis sp. AHZ-HB-MK and its Mutant Obtained by Gamma Irradiation. <i>LGUJLS</i> , 4 (02): 172-184.	
236	Saleem S, Iqbal A, Hasnain S. 2020. Bacterial mediated silver nanoparticles and their efficacy against MRSA. <i>Tropical Biomedicine</i> , 37(2):482-488. PMID: 33612817	0.509
237	Hafsa Amat-ur-Rasool, Mehboob Ahmed, Shahida Hasnain and Wayne G. Carter. 2021. Anti-Cholinesterase Combination Drug Therapy as a Potential Treatment for Alzheimer's Disease. <i>Brain Science</i> , 11(2), 184; https://doi.org/10.3390/brainsci11020184	3.332
238	Muhammad Imran Qadeer, Ali Amar, Yung-Yu Huang, Eli Min, Hanga Galfalvy, Shahida Hasnain & J. John Mann. 2021. Association of serotonin system-related genes with homicidal behavior and criminal aggression in a prison population of Pakistani Origin. <i>Scientific Reports</i> , 11, Article No: 1670	3.998
239	Sumbal Sarwar, Shabana, Shahida Hasnain (2021) Association of variable number of tandem repeats (VNTR) and T941G polymorphism of monoamine oxidase (MAO-A) gene with aggression in Pakistani subjects. <i>African Health Sciences</i> , Vol. 21(1); 180-188.	0.821
240	Sumbal Sarwar, Farah Ehsan, Shabana, Amna Tahir, Mahrukh Jamil, Saleem Ullah Shahid, Asim Khan & Shahida Hasnain. (2021) First report of polymorphisms in <i>MTRR</i> , <i>GATA4</i> , <i>VEGF</i> , and <i>ISL1</i> genes in Pakistani children with isolated ventricular septal defects (VSD). <i>Italian Journal of Pediatrics</i> , 47, Article number: 70	2.185
241	Faiz Ahmed Raza, Hasnain Javed, Muhammad Mujeeb Khan, Obaid Ullah, Areeba Fatima, Muhammad Zaheer, Saima MohsinID, Shahida Hasnain, Ruqyya KhalidID, Arslan Ahmed Salam. 2021. Dengue and Chikungunya virus co-infection in major metropolitan cities of provinces of Punjab and Khyber Pakhtunkhwa: A multi-center study. <i>PLOS Neglected Tropical Diseases</i> , 15(9): e0009802.	4.466
242	Sadia Bashir, Atia Iqbal, Shahida Hasnain and James Francis White. 2021. Screen of sunflower associated bacteria as biocontrol agents for plant growth promotion. <i>Archives Microbiology</i> , 203, 4901-4912	2.552
243	Hafsa Amat-ur-Rasool, Mehboob Ahmed, Shahida Hasnain, Abrar Ahmed, Wayne Grant Carter. 2021. In Silico Design of Dual-Binding Site Anti-Cholinesterase Phytochemical Heterodimers as Treatment Options for Alzheimer's Disease. <i>CIMB (Current Issues In Molecular Biology)</i> , 44(1): 152-175 10.3390/cimb44010012	2.695
244	Malika Uzma , Atia Iqbal, Shahida Hasnain. 2022. Drought tolerance induction and growth promotion by indole acetic acid producing <i>Pseudomonas aeruginosa</i> in <i>Vigna radiate</i> . <i>PLOS ONE</i> , 17(2): e0262932 https://doi.org/10.1371/journal.pone.0262932	3.24
245	Sumbal Sarwar, Shabana, Amna Tahir, Zainab Liaqat, Saher Naseer, Rani Summeya Seme, Sabahat Mehmood, Saleem Ullah Shahid & Shahida Hasnain. 2022. Study of variants associated with ventricular septal defects (VSDs) highlights the unique genetic structure of the Pakistani population. <i>Italian Journal of Pediatrics</i> , 48, Article number: 124	2.638
246	Total	305.365