

## DR. SHAHIDA HASNAIN

### RESEARCH PUBLICATIONS:

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.
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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.
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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.
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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.
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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.
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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.
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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.
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