

# Department of Biotechnology and Biochemistry, SBSPGI

## Research Papers

1. Singh, S.K., K. Sachin (2015) “Cyanobacteria in Biotechnology” In Goyal, P., Chauhan, A., Kaushik, P. (Ed.) Plant & Microbes...an innovative approach; pp. 411-26; SBW Publishers, New Delhi.
2. Irina Pader, Rajib Sengupta, Marcus Cebula, Jianqiang Xu, Jon O. Lundberg, Arne Holmgren, Katarina Johansson, and Elias S. J. Arnér (2014) **Thioredoxin related protein of 14 kDa is an efficient L-cystine reductase and S-denitrosylase**. Proc. Natl. Acad. Sci. 111 (19): 6964-6969 [DOI: 10.1073/pnas.1317320111, PMID: 24778250]
3. **Singh RR**, Goyal SP, Mukherjee SK and Sharma CP. Tibetan Antelope – Illegal Trade and Wildlife Forensic Techniques to Identify Shatoosh Wool and Shawls, 2010. Published by Wildlife Institute of India, Dehradun. **Translated in Turkish by CITES, TWIN Project in 2014-2015**.
4. Chandra Shekhar Sharma and **Rina Rani Singh 2015**. Characterization of Rhinoceros Horn Using Biological Techniques. CHEMCON, SBSPGI, Balawala, Dehradun. 11<sup>th</sup> -12<sup>th</sup> Feb. 2015. Poster presentation and received consolation awards.
5. **Rina Rani Singh** was invited for discussion in 1 day Workshop on “Women Empowerment Strategies in Himalayan State of Uttarakhand”. Organized by IUCN on 30<sup>th</sup> April 2014.
6. **Rina Rani Singh** was invited as a **resource person** to provide training to field officers of Uttarakhand and Uttar Pradesh in **Training Workshop organized by Forest Department**, Uttarakhand on 06<sup>th</sup> Dec. 2014.
7. **Rina Rani Singh** reviewed a scientific paper in the Journal “The Indian Forester” entitled “Duttaphrynus in India, Bangladesh & Sri Lanka in July 2014.
8. Rawat, T., Jadon, V.S. & **Gupta, S (2015)** Antioxidant potential of *Angelica glauca* of Uttarakhand Region. **J. Biologically Active Molecule from Nature (in press). Taylor and Francis**.
9. Gupta, N., Bhatt, J.P., Jadon, V., Rajput, V & **Gupta, S (2014)** Decolorization capability of an isolated strain Fusarium moniliformes in relation to ligninolytic enzyme activity in digested distillery waste water. **J. Advanced Microbiology 1(4) 219-217**.
10. Seth, R., Mohan, M., Singh, P. Singh, R., Gupta, V.K., Dobhal, R., Uniyal, D.P. and Gupta, S (2015) Assessment of seasonal variations in surface water quality of bageshwar district, Uttarakhand for drinking and irrigation purposes. **Procd. Natt. Acad. Sci. India. Sect A, 2015. DOI 10.1007/s40010-014-0195-8 Springer Impact Factor: 0.7**
11. **Kandari, V., Bajpayee, I., Kamal, B., Jadon and Sanjay Gupta (2014)** Production of Bioethanol from enzymatic and dilute acid hydrolysate of Lantana camara in batch fermentation. **J. Advanced Microbiology 1(3) 170-183**
12. **Gupta, N., Bhatt, J.P. Jadon, V.S., Nautiyal, R & Gupta, S (2014)** Decolourization of molasses based distillery waste water by using calcium alginate immobilized fungal strain. **J. Advanced Microbiology 1(2) 107-118**
13. **Rana, R., Tiwari, S.C., Jadon, V.S. & Gupta, S (2014)** Bacterial isolates for Biocontrol of

Fusarium Wilt of Pigeon Pea. **J. Dynamics in Agriculture Res**, 1(3) 14-22.

14. Rana, R. S, Kandari, V, Singh, P, Singh, R and **Gupta, S. (2014)** A Review on characterization and bioremediation of pharmaceutical industries wastewater: an Indian perspective. **Applied Water Science** DOI: 10.1007/s13201-014-0225-3, **Springer**.
15. Srivastava, N., Jadon, V. S., Rana, R. S., Singh, P & **Gupta, S. (2014)** Determination of location of phenol resistant gene in phenol degrading bacterial strains expressing phenol hydroxylase activity. **J. Advanced Microbiology** 1(1) 45-51.
16. Shashi Ranjan, Vikash S. Jadon, and **Sanjay Gupta (2014)** Studies on the anti-inflammatory and analgesic activities of *Allium stracheyi*, a medicinal plant of alpine Himalayas of Uttarakhand. **Drug Discovery and Development** 1(1) 27-34.
17. Gupta, A.K., Gaur, V.S., Pathak, R.K., **Sanjay Gupta** and Kumar, A. (2014) Dof1 transcription factor interacts with only specific regions of the promoters driving the expression of genes involved in carbon and nitrogen metabolism. **International Journal of Computational Bioinformatics and In Silico Modeling** 3 (4) 412-422.
18. Seth, R., Mohan, M., Dobhal, R., Gupta, V.K., Singh, P., Singh, R and **Gupta, S. (2014)** Application of Chemometric Techniques in the Assessment of Groundwater Quality of Udham Singh Nagar, Uttarakhand, India. **Water Quality Exposure and Health**, DOI 10.1007/s12403-014-0127-5, **Springer**.
19. Seth, R., Mohan, M., Singh, P., Singh, R., Dobhal, R., Singh, K.P. & **Gupta, S. (2014)** Water quality evaluation of Himalayan Rivers of Kumaun region, Uttarakhand, India. **Applied Water Science**, DOI 10.1007/s13201-014-0213-7, **Springer**
20. Rana, R S, Kandari, V, Singh P & **Gupta, S (2014)** Assessment of heavy metals in pharmaceutical Industries waste water of pharmacy, selaqui, dehradun. **J. Anal. Chem. Letts.** 4(1) 29-39, **Taylor and Francis**.
21. Kandari, V, Vajpae, I, Kumar, D & **Gupta, S (2014)** Optimization of sugar production for dilute acid pretreatment of lignocellulosic biomass and bioethanol production. **Asian Acad. Res. J. Multidisciplinary** 20 (1) 375-396. **Impact factor: 0.50**
22. Rana, R S, Singh, P, Singh, R & **Gupta, S (2014)** Assessment of physico-chemical pollutants in pharmaceutical industries waste water of pharmacy, selaqui, dehradun. **Int. J. Env. Chem Res.** 4 (2) 136-142. **Impact factor: 0.431**
23. Sharma, P, **Gupta, S** and Arora, S (2014) Effect of silver nanoparticles on antioxidant status of *Brassica juncea* callus. **Indian J. Research (2014)** 8 (1& 2), 23-29. **Impact factor:**

0.231