

Research Projects/ Innovation Projects Completed:

(i) SSNC 205 (2013-2014) Project Investigator Assessment of Microbial & Chemical quality of drinking water samples from various technologies available to make it potable.

(ii) SSNC 301 (2015-2016) Project Investigator Solid State Fermentation of Urban Waste into Food, through *Pleurotus* Cultivation.

Publications

1. Study of Autoxidation of Ascorbic Acid in Acetonitrile by Electronic Absorption Spectra Seema Gupta, Sushil Kumar, and Harish Chandra Journal of Applied Spectroscopy 72(2) (2005) 291-293
2. UV spectroscopic study of the mechanism of oxidation of VitaminC in non-aqueous phase. Seema Gupta, Sushil Kumar and Harish Chandra ICOB-4 & ISCNP-24 IUPAC International Conference on Biodiversity and Natural Products: Chemistry and Medical Applications, 26-31 January 2004, New Delhi (India)
3. Electronic Spectroscopic Study on Cholesterol: A comment on plaque formation Sushil Kumar, Seema Gupta and Harish Chandra ICOB-4 & ISCNP-24 IUPAC International Conference on Biodiversity and Natural Products: Chemistry and Medical Applications, 26-31 January 2004, New Delhi (India)
4. Electronic Spectroscopic Study of L-Ascorbic Acid (Vit.C) in non-aqueous Media. Seema Gupta, R. K Sharma, and Harish Chandra Journal of Applied Spectroscopy 73(2): pp 297-300 (2006)
5. Infrared and UV Spectroscopic study of aggregation of Cholesterol Sushil Kumar, Seema Gupta and Harish Chandra Spectroscopy Letters, 40(4): 583-590 2007
6. Evaluating Microbial & Chemical Quality of Delhi-NCR Drinking Water, enhancing its Standard & Spreading mass awareness; A. Archana, Parvinder Kaur, Saraswati Kanodia, Seema Gupta, Priyanka, Purnati Khuntia, Kumar Anadi Anant, Manti Kumar Saha, Shweta Jaiswal, Ayush Sharma, Ashish Tiwari, Anju Mehra, Anjali Panchal and Sumit Kumar; Journal of Undergraduate Research and Innovation Volume 1, Issue 1, Feb 2015; ISSN 2395 – 2334
7. Conversion of dried fallen leaves of Ashoka tree (*Polyalthia longifolia*) into food by *Pleurotus* cultivation; Parveen Garg, Geeta Saxena, Saraswati Kanodia, Seema Gupta, Vijay Kumar Goel and Surender Kumar Sagar; Global Journal of Applied Agricultural Research 2016, 6 (1), page 1-3 ISSN 2248-9991
8. Conversion of Urban Waste into Highly Nutritious Food by *Pleurotus* Cultivation; Parveen Garg, Geeta Saxena, Saraswati Kanodia, Seema Gupta, Vijay Kumar Goel, Rajan, Gaurav, Siddhant,

- Mohini, Nidhi, Mohit, Ankush, Juned, Akanksha and Priyanka; IOSR Journal of Biotechnology and Biochemistry (IOSR-JBB), (2017) Volume 3 (4), PP 15-18; ISSN: 2455-264X
9. Total Biomass Benefits due to a Plant Hormone (Kinetin) Application on Oyster Mushroom (P. Sajor-caju) Cultivated on Wheat Straw Renu Garg, Seema Gupta, Usha Singh Gaharwar , Parveen Garg *Inventum Biologicum: An International Journal of Biological Research* 2022, Vol. 2, Issue 2, pp. 60-63
 10. Effect of repeated exposure of Auxin (indole 3 acetic acid) in *Pleurotus Sajor -caju* Mushroom Cultivation: A case study Renu Garg, Usha Singh Gaharwar, Seema Gupta, Prof. Parveen Garg *Journal of Advances and Scholarly Researches in Allied Education* Vol. 19, Issue No. 3, April-2022, ISSN 2230-7540
 11. Enhancement of Biomass of *Pleurotus* Mushroom Grown on Wheat Straw Using Plant Growth Hormone Gibberellin: A Case Study Parveen Garg, Renu Garg & Seema Gupta *Shodh Drishti (An International Peer Reviewed Refereed Research Journal)*, Vol. 13, No. 4, April, 2022 ISSN: 0976-6650
 12. Synthesis of Novel Spiro [imidazolidine- pyrazoline]-2, 4-dione Derivatives Manju Mehta, Bhupinder Mehta, Seema Gupta, Vijay Kumar Goel *Indian Journal of Advances in Chemical Science* 10 (2), 172-176, 2022 ISSN: **2320-0898**.
 13. Electronic Spectroscopic Study of Stability of L-Ascorbic Acid (Vitamin C) in Aqueous Solutions of Salts (NaHCO₃, NaCl, and KCl) Seema Gupta & Vijay Kumar Goel *Indian Journal of Pure & Applied Physics* Vol. 61, September 2023, pp. 751-753.

Chapter in Book:

Progress in Environmental Management Indian Experiences (January, 2014)

Edited by Subhash Anand

Publisher Research India Press New Delhi (India)

Chapter 18: Scientific Appraisal of Waste Water Treatment Page 297-308

ISSN: 978-81-89131-91-3