**DR. SANTOSH KUMAR SINGH**

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**Contact No.:** +919935434134

**SUMMARY**

A dexterous and dynamic professional having 14 years of experience in Botany, Agriculture, Plant Breeding, Genetics, Plant Physiology, Biotechnology and Life Science. Has hands-on experience in performing exceptional experiments and analyzing the research work in Biotechnology. Having in-depth knowledge of extraction and purification of DNA from different plants, analytical and biochemical techniques, gel documentation system, etc. Holds expert level familiarity with the niceties of university level teaching, hence capable of mentoring students so that they can sail through their academic journey. Has comprehensively contributed in different publications and also attended various conferences. Adept at working in high pressure environments with strict deadlines and multiple deliverables to implement best practices that consistently deliver outstanding results.

**KEY SKILLS**

* Academic Project Guidance & Support
* Student Performance Improvisation
* Academic Progress Evaluation & Monitoring
* NTSYS Software Proficiency
* Analytical & Biochemical Techniques Knowhow
* Phylogenetic Dendrogram Preparation
* Instructional Methods Development
* Research Guidance & Faculty Support
* Image Processing & Data Analysis
* SPSS, Origin and Sigma Plot Knowledge
* Pressure Handling & Time Management
* Interpersonal & Managerial Skills

**PROFESSIONAL EXPERIENCE**

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| **Employer** | Sri Sathya Sai University for Human Excellence, Kalaburagi, Karnataka |
| **Designation** | Assistant professor |
| **Duration** | 2nd July 2021 to till date |

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| **Employer** | Tula’s Institute of Engineering and Management, Dehradun |
| **Designation** | Assistant professor |
| **Duration** | 3rd March 2021 to 30th April 2021 |

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| **Employer** | Beehive College of Management & Technology, Beehive Group of Institutions, Selaqui, Dehradun |
| **Designation** | Assistant professor |
| **Duration** | September 2018 to 01-03-2021 |

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| **Employer** | The Glocal University, Saharanpur (Uttar Pradesh) |
| **Designation** | Assistant Professor & Associate Professor |
| **Duration** | 1st August 2014 to 14th September 2017 (Assistant Professor); Associate Professor (15th September 2017 to 27th June 2018) |

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| **Employer** | S.B.S. (P.G.) Institute of Biomedical Sciences and Research, Balawala, Dehradun |
| **Designation** | Assistant Professor |
| **Duration** | February 2011 to June 2014 |

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| **Employer** | Gayatri College of Bio-Medical Sciences, Dehradun |
| **Designation** | Assistant Professor |
| **Duration** | February 2010 to February 2011 |

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| **Employer** | BFIT Group of Institutions, Suddhowala, Dehradun |
| **Designation** | Lecturer |
| **Duration** | September 2008 to February 2010 |

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**RESEARCH EXPERIENCE (2003-2008)**

* Worked as Junior Research Fellow for 3 years in University of Allahabad (CSIR- JRF)
* Worked as Senior Research Fellow for 2 years in University of Allahabad

**APPOINTMENTS/ DUTIES ASSIGNED BY THE UNIVERSITIES**

**2010**

* Appointed as the member of ‘Flying Squad’ in Semester Examination-2010/ UPTU by Uttarakhand Technical University, Dehradun From 17th May to 10 June
* Appointed as External Examiner in Combined (P.G.) Institute of Medical Sciences, Dehradun, for B.Sc. Medical Microbiology 2nd Year (Practical I& Practical III) & for B.Sc. Medical Microbiology 3rd Year (Practical III) by H.N.B. Garhwal University, Srinagar, Garhwal

**2012**

* Appointed as External Practical Examiner in BFIT, Dehradun, for M.Sc. Biotechnology, Semester I (Lab work I & II) by Uttarakhand Technical University, Dehradun
* Had been an External Practical Examiner in Sai Institute of Paramedical & Allied Sciences, Dehradun, for M.Sc. Biochemistry IInd Year (Lab course III &IV); Combined (P.G.) Institute of Medical Sciences (C.I.M.S.), Dehradun, for B.Sc. Medical Lab Technology, 1st Year, 2nd Year and 3rd Year (Microbiology) & M.Sc. Medical Microbiology, 2nd Year (Immunopathology &Serodiagnostics) by H.N.B. Garhwal University, Srinagar, Garhwal

**2013**

* Appointed as External Practical Examiner in BFIT, Dehradun, for M.Sc. Food Technology, Semester III (Lab work I & II) by Uttarakhand Technical University, Dehradun & in Doon Paramedical College & Hospital, Dehradun, for M.Sc. Biochemistry IIIrd Semester(Practical II) by H.N.B. Garhwal University, Srinagar, Garhwal

**2014**

* Had been an External Practical Examiner in Sai Institute of Paramedical & Allied Sciences, Dehradun, for M.Sc. Biochemistry

**2015**

* Appointed as External Practical Examiner in Doon Paramedical College & Hospital, Dehradun, for M.Sc. Biochemistry IV Semester by H.N.B. Garhwal University, Srinagar, Garhwal

**ACADEMIC CREDENTIALS**

* Doctor of Philosophy from University of Allahabad in 2009

**Topic:** Assessment of Biodiversity in *Ocimum* species using different Molecular Markers

* Post Graduation in Botany from Udai Pratap College Varanasi affiliated with V.B.S. Purvanchal University, Jaunpur in 2001
* Graduation in Botany, Zoology and Chemistry from Udai Pratap College Varanasi affiliated with V.B.S. Purvanchal University, Jaunpur in 1999.

**TRAININGS/FDP/Event Coordination**

1. Undergone one week Orientation Training Course on “Ground Water Development and Management” in 2011, held at Uttarakhand State Council for Science and Technology (UCOST), Dehradun, (Uttarakhand), organized by Rajiv Gandhi Ground Water Training and Research Institute and Central Ground Water Board (CGWB), Ministry of Water Resources, Government of India
2. Undergone Short Term Training Course on “Current Trends in Protein Chemistry relevant to Biological Sciences, sponsored by DBT and organized by the Interdisciplinary Biotechnology unit, Aligarh Muslim University during November 7-23, 2017
3. Attended Faculty Development Programme (FDP) organized by Uttarakhand Technical University, Dehradun during March 04-05th 2017.
4. Coordinated in organizing an event on World Food Day (16th October 2017) in Glocal School of Life & Allied Health Sciences, Glocal University, Saharanpur, Uttar Pradesh.
5. Attended Faculty Development Programme (FDP) on research methods and data analysis through advanced software during 23rd to 30th April 2018. The program was organized and supported by Shri Ram College of Management, Muzaffarnagar and Dr. APJ Abdul Kalam Technical University, Lucknow.
6. Attended the Faculty Development Program (online mode) on “Advances in Bioinformatics sponsored by Ministry of Electronics and Information Technology (MeitY), GOI, organized by Department of Biotechnology, NITW and E&ICT Academy, NIT, Warangal during 10-16th May 2021 under AICTE Training and Learning (ATAL) scheme.
7. Attended the Faculty Development Program (5 days/online mode) on “AI and IoT- Based Technology for Precision Farming and Smart Agriculture from 7th June to 11th June 2021 organized by KGiSL Institute of Technology, Coimbatore, Tamil Nadu; under AICTE Training and Learning (ATAL) scheme.
8. Attended the Faculty Development Program (5 days/online mode) on ““Biovalorisation: Trend and Prospects of Value- added Products” from 3rd to 7th January 2022 organized by Department of Biotechnology, National Institute of Technology, Andhra Pradesh.
9. Participated in International online workshop on ‘Multivariate analysis and its interpretation using SPSS’ on 20th August 2021 to 22nd August 2021; organized by **Global Institute of Statistical Solutions (GISS).**
10. **Attended Workshop on ‘Various dimension of Vedic Sciences, 2022’ on 11-19th February 2022, organized by Maharshi Research University, Netherland, Sri Sathy Sai University for Human Excellence, Vedic Science Centre, BHU.**
11. Participated in Interdisciplinary Six-Day National Webinar cum Faculty Development Programme on Emerging Trends and Technologies in Development of Skills in Higher Education from 21.11.2022 to 26.11.2022 jointly organized by Department of English and Zoology, JMJ College for Women (Autonomous), Tenali, Andhra Pradesh.
12. Attended a workshop on Whole Genome Sequencing Data Analysis organized by NEGENOME Bio Solutions Pvt Ltd India on 8th and 9th July 2023.
13. Attended a national FDP cum workshop on ‘Research Methodology in Practice’ organized by Research India Foundation on 15th October 2023.
14. Participated in “Gita Sar Sarita-Para Vidya Shibiram” a 21 days Orientation programme on Bhagwad Gita from 5th July to 25th July 2023, organized by the Department of Sanskrit & Vedic Studies, Sri Sathya Sai University for Humsan Excellence, Kalburgi, Karnataka.

**PROJECTS**

**Research Projects under review**

* R&D Project, the topic entitled “Biodiversity & Proteomic studies in relation to UV-B stress in endangered plants endemic to Panchgiri Hills, Karnataka” has been submitted for Vision Group of Science & Technology, Government of Karnataka

**Projects Awarded/Implemented**

Details of the Research Projects being implemented/ completed as Principal Investigators/ Co-PI along with its salient features:

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| **S. No.** | **Reference no.** | **Title** | **Duration (Years)** | **Cost (Rs)** | **Funding agency** | **Salient Features** |
| **1.** | UCS&T/R&D/LS-42/11-12/4353;  Dated: 14.03.2012  **Project-Investigator** | Generation of somatic hybrids of gold-rush (Yarshagumba) and establishment of highly efficient cell culture based bioreactor system | **2** | 4.54 Lakhs | Uttarakhand State Council for Science & Technology (UCOST), Uttarakhand | Optimization of cell culture based metabolite production &Somatic hybridization |
| **2.** | 768Guard-7/R.N. Singh/R&D (Rural)/Balawala/2012; dated: 22.08.2012  **Co-Investigator** | Identification of novel pharmaceuticals from Cyanobacteria from high altitude origin and development of DNA-based biosensors | **2** | 5.68 Lakhs | Uttarakhand State Biotechnology Department  (USBD), Uttarakhand | Protein profiling of cyanobacteria with respect to UV-B toxicity and identification of compounds. |
| **3.** | Department of Biotechnology, Ministry of Science and Technology, Govt. of India. Project-Investigator | Title: "Analysis of photosynthetic activities and Proanthocyanidins accumulation in *in vitro* cultured cells of *Trichodesma indicum*exposed to UV-B stress " | 1 | 8 Lakhs | DBT-PRAKASH LAB | Key Features: Mass propagation and optimization of cell cultures for desired metabolite/s production and establishment of UV-screening potential in cell culture based bioreactor system. |
| **4.** | DRIC/2021/SMGR1/0001  (01/09/2022) | Title: In vitro propagation for biodiversity conservation and DNA Bar Coding of medicinal plant | **1** | 1.5 Lakh | A seed grant Project by Sri Sathya Sai University for Human Excellence, Kalburgi, Karnataka |  |
| **Total Project Cost (Rs) till date:** | | | | | | **Rs. 19.72 Lakhs** |

**SEMINARS/ SYMPOSIS**

* Participated in the “National Symposium on Sustainable Management of Portable Water” organized by The Institute of Applied Sciences, Allahabad, on March 29-30, 2008
* Attended a Symposium on Molecular Approaches in Cytogenetics, on October 20th to 22nd in the Department of Zoology, University of Allahabad, in the Year 2005
* Participated in an International Seminar of Indo- Russian Centre for Biotechnology entitled “Indo-Russian Seminar on Recent trends in applied Bioinformatics and Medi-informatics” organized by Indian Institute of Information Technology, Allahabad during November 6-7th , 2005

**REVIEWER/ REFEREE IN NATIONAL AND INTERNATIONAL JOURNALS**

**PROFESSIONAL RECOGNITION, AWARDS, FELLOWSHIPS RECEIVED**

* Awarded Junior Research Fellowship (CSIR-JRF) by Council of Scientific and Industrial Research, New Delhi; Government of India, India from July 2003 to June 2005 and promoted to CSIR-SRF from July 05-June 2008
* The Poster presented in 6th Indian Agricultural Scientists and Farmers Congress-2004’ was awarded as the ‘Best Poster’
* The Paper topic entitled “Establishment of Somatic Hybrid Cell Culture based Bioreactor System in Yarshagumba”, authored by Praveen Kaushik, Santosh Kumar Singh & Brijmohan Sharma (2012) was awarded as Best Poster and Young Scientist Award, under the section: Biotechnology, Biochemistry & Microbiology, in the 7th Uttarakhand State Science and Technology Congress, 2012
* Appointed as a ‘Resource Person’ by Uttarakhand State Council of Science and Technology to deliver a lecture on ‘Somatic Hybridization Technique’ in BFIT, Dehradun
* Member of National Digital Library of India (NDLI).
* Coordinator, Criteria III, Research & Innovations, NAAC, SSSUHE

**BOOKS/ MONOGRAPHS/ CHAPTERS PUBLISHED IN PRESS**

1. Santosh Kumar Singh (2011). Biodiversity Assessment in Ocimum using molecular markers. LAP LAMBERT Academic Publishing GmbH & Co. KG Heinrich-Bocking-Str. 6-8 66121, Saarbrucken, Germany (Printed in USA and U.K.), ISBN-978-3-8473-1113-3
2. Santosh Kumar Singh and Kumar Sachin, the chapter topic entitled ‘Cyanobacteria in Biotechnology’ in the book “Plants and Microbes”, ISBN: 9788185708300. SBW Publisher, New Delhi
3. Fouzia Ishaq, Santosh Kumar Singhand Amir Khan (2015). Chapter 8: Application of biotechnology in agricultural production. In ‘Environmental Biotechnology: A new Approach’ Pp: 131-146. Publisher: Daya Publishing House (A division of Astral International Pvt Ltd), New Delhi. ISBN 9789351247364
4. Santosh Kumar Singh& Amir Khan (2015). Chapter 21: Cordyceps sinensis, a magical medicinal mushroom. In ‘Environmental Biotechnology: A new Approach’ Pp: 347-359. Publisher: Daya Publishing House (A division of Astral International Pvt Ltd), New Delhi. ISBN 9789351247364
5. Fouzia Ishaq, Santosh Kumar Singh and Amir Khan (2015). Chapter 19: Phytotechnology and its techniques to combat environmental pollution of terrestrial and aquatic systems. In ‘Environmental Biotechnology: A new Approach’ Pp: 287-308. Publisher: Daya Publishing House (A division of Astral International Pvt Ltd), New Delhi. ISBN 9789351247364
6. Santosh Kumar Singh, Devendra D.N. & Imran Husain, Artificial Intelligence equipped with IoT for automation and enhanced crop yield. In Futuristic trends in Agriculture Engineering & Food Science, Edited by Dr Parmar Hitendra Kumar, Dr Bhawna Kalra, Dr Prabhakar Singh, Niranjan Ravindra Thakur (series ID: IIPV3EBS04\_G86). IIP International Publishers, USA & India (accepted for publication and will be published in December 2023).
7. Santosh Kumar Singh, Praveen Kumar T.C., Sai Giridhar Nayak M., A. Sankara Narayanan, Sheeba Rizwan & Imran Hussain, Chapter entitled ‘Detection of plant growth promoting cyanobacterial community from soil and root, in the book entitled, ‘Protocol on Plant Microbiome Engineering’, Springer Nature Publications (Accepted for publication:).
8. Santosh Kumar Singh, Devendra D.N. & Imran Hussain, Chapter entitled, ‘Artificial Intelligence equipped with IOT for automation and enhanced crop yield’ in the book, ‘Futuristic Trends in Agriculture Engineering & Food Sciences’ IIP Series, Volume 3, Iterative International Publishers (IIP) (Accepted for publication).

**REGULAR RESEARCH PAPERS PUBLISHED (Google Scholar citation 389, H-index: 12, I10 Index: 14)**

1. Abdulaziz Umar Kurya, Usama Aliyu, Abdulrahman Ibrahim Tudu, A.G Usman, Mohd Yusuf, Suneel Gupta, Aleem Ali, M.G., **Santosh Kumar Singh** , Imran Hussain , Mu’azu Abubakar Gusau (2022). Graft-Versus-Host Disease: Therapeutic Prospects of improving the Long-term Post-Transplant Outcomes. Transplantation Reports, 7: 100107, Elsevier (Scopus-Indexed) (ISSN: 2451-9596) DOI: <https://doi.org/10.1016/j.tpr.2022.100107>
2. Yousuf, S.; Singh, S.K. *In vitro* Axillary Mass Multiplication of *Trichodesma indicum*. Indo Global J. Pharm. Sci., 2022; 12: 141-144. **DOI**: <http://doi.org/10.35652/IGJPS.2022.12015>
3. Shameema Yousuf, Ashok Kumar & Santosh Kumar Singh (2021). Assessment of genetic diversity in *Trichodesma indicum* accessions. Journal of the Maharaja Sayajirao university of Baroda. 55 (1): 638.
4. Shivraj Gautam, Rina Rani singh, Santosh Kumar Singh (2020). Axillary mass multiplication *in vitro a*nd tolerance towards salt sensitivity in *Acmella oleracea*. J. Pharm. Sci. & Res. 12(2): 305-309 (Scopus, Elsevier, **ISSN: 0975-1459**).
5. Shivsharan Singh, Satish K Verma, Santosh K Singh (2020). *In vitro* investigation of anti-cancer potential of *Spilanthes acmella.* J. Pharm. Sci. & Res. 12(1): 124-128 (Scopus, Elsevier, **ISSN: 0975-1459**).
6. Shazia Ansari and Santosh K. Singh (2017). Temporal and Spatial distribution of Rotifera in a Polluted Water body. Journal of Environmental Science, Computer Science and Engineering & Technology, (6) 4: 491-507. ISSN: 2278–179X, DOI: 10.24214/jecet.A.6.4.49107 Impact Factor: 5.857
7. Ravindra Nath Singh, A. Bahuguna, P. Chauhan, V.K. Sharma, S. Kaur, Santosh Kumar Singh (2016). Production, purification and characterization of thermo stable α-amylase from soil isolate Bacillus sp. strain B-10 J. Bio Sci. Biotechnology. 5(1): 37-43
8. Shazia Ansari and Santosh Kumar Singh (2017). Limnological Studies with reference to Phytoplankton Diversity in Ponds of Semi-arid zone of Western Uttar Pradesh. Biological Forum – An International Journal 9(2): 129-147 ((Thompson Reuter indexed). Impact Factor: 2.9
9. Santosh Kumar Singh, B. Sharma, Praveen K., Amir K. & R.N. Singh (2015). Characterization and optimization of culture conditions of Cordycepssinensis. Journal of Environmental and Applied Bioresearch, 03(02): 79- 83. Impact Factor: 3.690
10. Shivsharan Singh Satish Kumar Verma and Santosh Kumar Singh (2017). Analysis of anticancer potential of Terminalia Arjuna. International Journal of Advanced Scientific Research and Management, 2 (11): 82-87. Impact Factor: 3.005
11. Arun K., Jayata C., Santosh Kumar Singh, Amir Khan and R. N. Singh (2015). Biodegradation of azo dyes by Bacillus subtilis‘RA29’. Der Pharmacia Lettre, 7 (6):234-238. Impact Factor: 1.96
12. Arun K., Ashutosh B., Ashok M., Santosh K.S., Amir K. R.N. Singh (2015). Anthracene degradation by novel strain of Geobacillus stearothermophilus “AAP7919”. Journal of Environmental and Applied Bioresearch, 03(02): 65 – 72. Impact Factor: 3.690
13. Shanthy Sundaram, Shalini Purwar, Santosh Kumar Singh and Priyanka Dwivedi (2014). Diversity among 20 accession of three germplasm of the medicinal plant, Ocimum (O. gratissimum, O. sanctum and O. basilicum, Lamiaceae). Journal of Medicinal Plant Research, 8(17), pp. 640-645.Global impact factor: 0.244. DOI: 10.5897/JMPR12.1188 (h5 index: 35)
14. Santosh Kumar Singh, Satish Kumar Verma, Md. Aslam Siddiqui, Devendra Singh & Brij Mohan Sharma (2012). Alterations in antioxidant potentials of Synechococcusspp. Exposed to hexazinone toxicity, Indian Forester, 138 (6): 541-546. **DOI**: [10.36808/if/2012/v138i6/4679](http://dx.doi.org/10.36808/if%2F2012%2Fv138i6%2F4679)
15. Santosh Kumar Singh, Satish Kumar Verma, Md Aslam Siddiqui, Sheeba & Brij Mohan Sharma (2011).A reliable rapid protocol for Characterization of in vitrototipotency in Spilanthesoleracea. Environment Conservation Journal. 12 (3): 67-71; I.F. 0.854)
16. Abhishek Mathur, Satish K. Verma, Sajad Yousuf, Santosh K. Singh, G.B.K.S. Prasad & V. K. Dua (2011), Antimicrobial potential of roots of Riccinuscommunis against pathogenic microorganisms, International J. Pharma and Biosciences, Vol: 2(1): 545-548 (Impact Factor: 6.268) DOI://doi.org/10.22376/ijpbs SCImago Ranking: 0.274, ICV VALUE 116
17. Agrawal Pavan Kumar, Agrawal S., Verma Satish K., Singh Santosh Kumar and Shukla Keshav Prasad. (2011) Characterization of plant growth promoting bacteria from soil of Central and Upper Himalayan region. Asian J Pharm Clin Res, Vol 4, Suppl 1, 2011, 98-99 (Impact Factor: 0.74)
18. Abhishek Mathur, Satish K. Verma, Santosh Kr. Singh, Archana Prakash, GBKS Prasad & V.K. Dua, Isolation and determination of biochemical nature of anticoagulant from earthworm, Environment Conservation Journal, 12(1&2): 75-77.(I.F. 0.854)
19. Dua, V.K., Mathur, A., Verma, S.K. &Singh, S.K. (2011). Photochemical investigation and in vitro antioxidant activity of some medicinally important plants of Uttarakhand. Int Res J Pharmacy, 2(6): 116-122. Impact factor: 0.751 DOI: 10.7897/2230-8407
20. Abhishek Mathur, Satish K. Verma, Santosh K. Singh, Archana Prakash, GBKS Prasad and VK Dua (2011). Anti-inflammatory activity of Earthworm extracts. International Journal of Pharmaceutical Sciences & Research, Vol.2 (2): 278-281 (Impact factor: 1.79; ICV 90.24, Thomson Reuter indexed)
21. Abhishek Mathur, Satish K. Verma, Vinay Gupta, Santosh K. Singh, Shivsharan Singh, Deepika Mathur, RakshandaBhat, G.B.K.S. Prasad and V.K. Dua (2011). Comparative studies on different varieties of Apple (Pyrusmalus. L.) of Kashmir (J&K) on the basis of PPO activity, total phenolic content (TPC) and in vitro antioxidant activity. Pharma Science Monitor, 986-991. (Impact factor: 3.958).-UGC approved Journal
22. Satish Kumar Verma, Santosh K. Singh, Shivsharan Singh and Abhishek Mathur (2010). Evaluation of immunomodulatory and microbicidal potential of Thuja occidentalis. Environment Conservation Journal, 11(3): 85-88. (I.F= 0.854)
23. Satish Kumar Verma & Santosh Kumar Singh (2012).Evaluation of anticancerous and immunomodulatory potentials of Thuja occidentalis, Indian Forester, 138 (1): 47-51. H index: 10
24. Rajat S., R.K. Bachheti, Shiva S. &Santosh Kumar Singh (2012). Assessment of Phytochemical and Biological Potentials of Bauhinia variegata. International Journal of Pharmaceutical Research, 4(1): 95-100. Impact factor: 1.3
25. Shanthy Sundaram & Santosh Kumar Singh, Axillary shoot multiplication from nodal explants of Ocimum basilicum L. (Sweet Basil)”, Proc. Nat. Sci. India, 78(B), 1, 2008, 79-83. (Impact factor: 0.396)
26. Santosh Kumar Singh, Ankur Anand, Satish Kumar Verma, Md Aslam Siddiqui, Abhishek Mathur, & Sonia Saklani (2011). Analysis of phytochemical and antioxidant potential of Ocimum kilimandscharicum Linn. International J Curr Pharma Res, 3(2): 40-46. (Scientific Journal impact factor: 4.510)
27. Mathur Abhishek, Gupta Vinay, Verma Satish K., Singh Santosh K., Prakash Archana, Prasad GBKS, Dua VK. (2011). Anti-Inflammatory Activity of Different Fractions of Leucascephalotus Leaves Extract. Int J Current Pharma Review and Research, 1(3): 28-32. Impact factor:2.364
28. Pavan Kr Agrawal, Shruti Agrawal, Satish Kumar Verma, Santosh Kr. Singh and Keshav Prashad Shukla (2011). Characterization of plant growth promoting bacteria from soil of central and upper Himalayan region. Int J Applied Biol Pharma Tech, 2 (1): 363-369. Impact factor: 1.45. DOI: 10.21276/ Ijabpt
29. Abhishek Mathur, Satish K. Verma, Santosh Kr. Singh, GBKS Prasad, V.K. Dua (2011). Investigation of the antimicrobial, antioxidant and anti-inflammatory compound isolated from Murrayakoenigii, Int J Applied BiolPharma Tech. 2(1): 470-477. Impact factor: 1.45. DOI: 10.21276/Ijabpt
30. Vishal Rajput, Santosh Kumar Singh, Arpita, Kirti and Abhishek (2012). Comparative toxicity of Butachlor, Imidacloprid and Sodium fluoride on protein profile of the walking cat fish Clariasbatrachus. Journal of Applied Pharmaceutical Science 02 (06): 121-124. Impact factor: 0.649 (h-index: 20) UGC approved journal
31. Santosh Kumar Singh, Satish Kumar Verma, Md. Aslam Siddiqui &Brij Mohan Sharma (2011). Effect of colchicine and maleic hydrazide on different cultivars of Cheilanthes (C. rufa, C. tenuifolia and C. farinosa).” J. Env. Bio-Sci., 25(1): 93-97
32. Santosh Kumar Singh, Satish Kumar Verma, Abhishek Mathur, Md. Aslam Siddiqui, D.K. Gupta &Brij Mohan Sharma (2011). Alterations in ant oxidative potential of Ocimum cultivars as a method to characterize UV-B tolerance. Recent Res Science Tech, 3(4): 140-148
33. Santosh Kumar Singh, Alok Kumar Singh, Satish Kumar Verma, Sheeba, H.V. Singh and A.K. Mishra (2011). Biochemical estimations in fern cultivars exposed to UV-B radiations. Advances in Plant Sciences, 24 (1): 235-239. (NAAS index = 2.7)
34. Santosh Kumar Singh, etal., 2011. Physiological and biochemical studies in cyanobacteria exposed to the cadmium stress. Flora and Fauna, 17 (2): 379-386. NAAS rating: 4.55
35. Satish K. Verma, Santosh K. Singh, Shivsharan Singh and Abhishek Mathur (2011). Immunomodulatory activity of Calotropisprocera. Flora and Fauna, 17 (1): 181-184. NAAS rating: 4.55
36. Satish Kumar Verma, Santosh Kumar Singh, Md. Aslam Siddiqui, Brij Mohan Sharma (2011). “Evaluation of antimicrobial potency of Argemonemexicana against gastrointestinal pathogens”, J. Env. Bio-Sci., 25(1): 133-135
37. Alok Kr Singh, Santosh Kr Singh, Satish K Verma, H.V. Singh, A.K. Mishra, Pavan K Agrawal, Abhishek Mathur and Md Aslam Siddiqui (2011). Accumulation of Natural Antioxidants in Ferns Exposed to Mutagenic Stress. International J Chem Environ Pharma Res., 2(1): 52-55
38. Abhishek Mathur, A. Rawat, G. Bhatt, S. Baweja, F. Ahmad, Aditi Grover, K. Madhav, M. Dhand, Deepika Mathur, S. K. Verma, Santosh Kr. Singh& V.K. Dua(2011). Isolation of Bacillus producing chitinase from soil: production and purification of chito-oligosaccharides from chitin extracted from fresh water crustaceans and antimicrobial activity of chitinase. Recent Res Science Tech, 3(11): 1-6
39. Abhishek Mathur, Vabprita Sharma, Aprajita Bhardwaj, Sajad Yousuf, Satish K. Verma, Santosh K. Singh and V.K. Dua (2011). Pectin content as an index for screening different varieties of apple (PyrusMalusL.) of Kashmir (J&K) on the basis of antimicrobial activity. J. Chemical Pharma. Res., 3(2): 886-891
40. Abhishek M., Gautam K. Singh, Satish KV, Sajad Y., Aprajita B., Santosh K. Singh, GBKS Prasad and V.K. Dua (2011). Phytochemical investigation and in vitro antimicrobial activity of different parts of FicusracemosaL. Der Pharmacia Sinica, 2(2): 270-275.Global Impact Factor (2015): 0.654
41. Abhishek Mathur, Satish Kr. Verma, Santosh Kr. Singh, Deepika Mathur, G.B.S.K. Prasad & V.K. Dua(2011). Investigation of Anti-inflammatory properties of Swertiachirayta and Gloriosasuperba, Recent Res Science Tech, 3(3): 40-43
42. Abhishek Mathur, Satish K. Verma, Reena Purohit, Vinay Gupta, VK Dua, GBKS Prasad, Deepika Mathur, Santosh K. Singhand Shivsaran Singh (2011). Evaluation of in vitro antimicrobial and antioxidant activities of peel and pulp of some Citrus fruits. Journal of Biotechnology and Biotherapeutics, Vol 1 (2): 1-17
43. Santosh Kumar Singh, Satish Kumar Verma, Md. Aslam Siddiqui & Sachin Chauhan (2010). Alterations in the activity of enzymes as a method to characterize herbicide tolerance, Int J Chem Environ and Pharma Res, 1(2): 74-79
44. Satish K. Verma, Santosh K. Singhand Abhishek Mathur (2010). In vitrocytotoxicity of Calotropisprocera and Trigonella foenumgraecum against human cancer cell lines. Journal of Chemical and Pharmaceutical Research, 2(4):861-865
45. Abhishek Mathur, Satish K. Verma, Santosh K. Singh, GBKS Prasad and VK Dua, (2010). Phytochemical investigation and in vitro antioxidant activities of some plants of Uttarakhand, IJPI’s Journal of Pharmacognosy and Herbal Formulations, Vol 1(1): pp: 1-7
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**TECHNICAL FORTE**

**Laboratory Techniques Knowledge**

* Plant Tissue Culture
* Extraction and purification of DNA from different plants, animals and bacterial samples
* Phylogenetic profiling using RAPD molecular Markers
* Analytical and biochemical techniques
* Flame photometry and Atomic Absorption Spectroscopy
* PCR, Protein profiling using Polyacrylamide Gel Electrophoresis (PAGE)
* Gel Documentation System
* Isolation, purification and Characterization of bacteria
* Fungi and cyanobacteria from various resources
* Preparation of competent bacterial cultures
* Antioxidant profiling in plants and microbes
* Synthesis of Nanoparticle from plants and microbes (Green Nanotechnology)

**IT SKILLS**

* Operating System: Win 98, XP Professional
* Software: MS Office (Word, Excel, Power Point and Front Page) Adobe Photoshop (Adobe Page maker, Photoshop and Image ready), Acrobat Reader, etc.
* MS Office, Internet Applications

**LIST OF Ph. D STUDENTS: 2**

* As Supervisor: 2

**PERSONAL DETAILS**

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| --- | --- |
| **Date of Birth** | July 05, 1979 |
| **Address** | Permanent: S/o Shri Braj Bhanu Singh, Village: Dharahara, Post: Pakari (Kala), District: Azamgarh, Uttar Pradesh, PIN: 276123  Corresponding: c/o Mr M.P. Thapaliyal, Mohanpur (Near Canal Road), Premnagar, Dehradun-248007, Uttarakhand |
| **Languages Known** | English and Hindi |

### Declaration:

It is here by declared that all the information’s given above are correct in the best of my knowledge and belief. I will be responsible for any mistake.

**Santosh Kumar Singh**