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Academic Qualification	M.Sc./ NET (CSIR)/ Ph.D
Research Area	Ethno-Medico-Botany, Plant Biotechnology, Phycology
Papers Published	<p>Number of Paper Published: 17</p> <ol style="list-style-type: none"> <li>1. <b>Priyanka Pandey &amp; Sugandha Tiwari.</b> Therapeutic Role of Ricinus Communis L. Root Bioactive Compounds in Rheumatoid Arthritis. International Journal of Pharmacy and Biological Sciences-IJPBS (2021) 11 (1): 99-104. <b>ISSN No. 2321-3272</b> <a href="https://doi.org/10.21276/ijpbs.2021.11.1.13">https://doi.org/10.21276/ijpbs.2021.11.1.13</a></li> <li>2. <b>Shikha Dixit &amp; Sugandha Tiwari.</b> Investigation of anti-diabetic plants used among the ethnic communities of Kanpur division, India. J Ethnopharmacol. 2020 May 10;253:112639. doi: 10.1016/j.jep.2020.112639. Epub 2020 Feb 4. PMID: 32032661.<b>Thomson Reuters impact</b></li> </ol>

**factor 5.195 (ClarivateAnalytics Journal Citation Reports).**

**ISSN No. 0378-8741**

<https://linkinghub.elsevier.com/retrieve/pii/S0378874119313467>

3. **Shikha Dixit & Sugandha Tiwari.** *Review on Plants for Management of Diabetes in India: An Ethno- Botanical and Pharmacological Perspective.* Pharmacognosy Journal. 2020;12(6s):1801-1810.

**ISSN No. 0975-3575**

<http://dx.doi.org/10.5530/pj.2020.12.243>

4. **Priyanka Pandey, Sugandha Tiwari.** Identification of different phytochemicals in methanolic extract of *Chenopodium album* (L.) leaf through GC-MS. Pharma Innovation 2020;9(3):175-178.

**ISSN No. 2349-8242**

<https://www.thepharmajournal.com/archives/?year=2020&vol=9&issue=3&ArticleId =4467>

5. **Priyanka Pandey and Sugandha Tiwari.** Therapeutic potential of Indian plants for the treatment of rheumatoid arthritis. J Pharmacogn Phytochem 2018;7(3):37-41.

**ISSN No. 2349-8234**

<https://www.phytojournal.com/archives/2018.v7.i3.4169>

6. **Sugandha Tiwari,** "Cyanobacterial and microalgal diversity from Kanpur, an industrial city in North Indian Gangetic plains." Phycos, 2017, Vol. 47, No. 2: 100-104.

ISSN: 0554-1182.

7. **Sugandha Tiwari,** "Efficient protocol for regeneration of transformed *artemisia annua* plants from hairy roots".

International Journal of pharma and Biosciences.  
2017.8.1.b396-401.

**ISSN No. 0975-6299**

<http://dx.doi.org/10.22376/ijpbs.2017.8.1.b396-401>

8. **Sugandha Tiwari**, "Cultivation of Artemisia annua in North Indian Gangetic Plains for antimalarial artemisinin." Biochemical and Cellular Archives, 2016, 306-310.

**ISSN No. 0972-1772**

9. **Sugandha Tiwari**, "Plants in Indian traditional system of medicine: An ethno medico botanical survey of Kanpur division". Trends in Biosciences 8, no. 22 (2015): 6222-6230.

**ISSN No. 0976-2485**

10. **Sugandha Tiwari**, "Recurrent Selection for Breeding High Artemisinin Containing Genotypes of Artemisia annua". Trends in Biosciences 2014, 922.

**ISSN No. 0976-2485**

11. **Sugandha Tiwari**, Recent advances in optimization and maximization of artemisinin yield for artemisinin based combination therapy. International Journal of Pharma and Biosciences 2012,686-696.

**ISSN No. 0975-6299**

12. **Sugandha Tiwari**, Traditional herbal remedies for gynecological problems practiced in Kanpur Division ( U.P.) India. Ethnobotany (International Journal of the society of Ethnobotanists) 2012,132-135.

**ISSN No. 0971-1252**

13. **Sugandha Tiwari**, "Effect of developmental stage and plant spacing on artemisinin and essential oil yield in Artemisia annua plants". Trends in Biosciences, 2011,222.

	<p><b>ISSN No. 0976-2485</b></p> <p>14. <b>S Kumar, S Banerjee, S Dwivedi, MM Gupta, RK Verma, DC Jain,</b>..Registration of Jeevan Raksha and Suraksha varieties of the antimalarial medicinal plant <i>Artemisia annua</i> J. Med. Aromat. Plant Sci 21, 47-48.</p> <p><b>ISSN No. 0253-7125</b></p> <p>15. <b>MP Darokar, A Mathur, S Dwivedi, R Bhalla, SPS Khanuja, S Kumar,</b> Detection of antibacterial activity in the floral petals of some higher plants. Current Science 1998, 75 (3), 187-189.</p> <p><b>ISSN No. 0011-3891</b></p> <p>16. <b>M Ram, MM Gupta, S Dwivedi, S Kumar,</b> Effect of plant density on the yields of artemisinin and essential oil in <i>Artemisia annua</i> cropped under low input cost management in north-central India. <b>Planta medica</b> 1997 63 (04), 372-374.</p> <p><b>ISSN No. 0032-0943</b></p>
Book Chapters	<p>Number of Book chapters Published: 02</p> <p>1. Dixit, S., Tiwari, S. (2022). Comparative Analysis of Bioactive Compounds for <i>Euphorbia Hirta</i> L. Leaves Extract in Aqueous, Ethanol, and Methanol Solvents Using GC-MS. In: Sharma, H., Vyas, V.K., Pandey, R.K., Prasad, M. (eds) Proceedings of the International Conference on Intelligent Vision and Computing (ICIVC 2021). ICIVC 2021. Proceedings in Adaptation, Learning and Optimization, vol 15. <b>Springer, Cham.</b>  <a href="https://doi.org/10.1007/978-3-030-97196-0_44">https://doi.org/10.1007/978-3-030-97196-0_44</a> Hardcover ISBN 978-3-030-97195-3, eBook ISBN 978-3-030-97196-0</p>

	<p>2. Sugandha Tiwari &amp; I.B. Pandey "Ethno-medico-botanical survey of phytotherapeutic resources for the treatment of skin diseases in Kanpur division (U.P) India." Proceedings of National Conference on Recent Advances in Plant Sciences, ISBN No. 978-93-81583-18-0.</p>
<p>Two varieties of antimalarial plant <i>Artemisia annua</i> (Variety Jeevanraksha and Suraksha) were developed and released</p>	<p>Two varieties of antimalarial plant <i>Artemisia annua</i> (Variety Jeevanraksha and Suraksha) were released with high artemisinin content which are used by pharma companies to make drugs for multidrug resistant malaria.</p> <p>The research work was carried out as a JRF and SRF at Genetic Resources and Biotechnology Division, CIMAP (CSIR), Lucknow under the Guidance of Dr Sushil Kumar (Former Director, CIMAP &amp; Shanti Swaroop Bhatnagar Award Winner).</p>
<p>Research Projects</p>	<p><b>1. "Phenological diversity of microalgae in district Kanpur and screening of lipid yielding microalgae for their potential application as a source of biofuel".</b> F.No.42-979/2013 (SR) Funding agency: UGC, New Delhi.</p> <p><b>2. "Detection of bioactive compounds from floral petals of angiospermic plants using bacteria as a biological screen."</b> No.F.5.1.3(Bot.)24/05(MRP/NRCB) Funding agency: UGC, New Delhi.</p> <p><b>3. " Strengthening of Life Science and Biotechnology Education and Training at undergraduate level" under Star College Scheme (Dept of Botany, Zoology, Chemistry).</b> Funding agency:Department of Biotechnology (DBT) Ministry of Science and Technology, Govt. of India.</p>

<p>National/ International Seminars/ Webinars Organized</p>	<ol style="list-style-type: none"> <li>1. Seminar on “ <b>Emerging Trends in Plant Sciences</b>”, organized by Department of Botany, Dayanand Girls P.G. College, Kanpur. December 24 &amp; 26, 2022.</li> <li>2. Lecture Series on “<b>Aroma Industry: Career and Business Opportunities</b>” was organized by the Department of Botany, D.G.P.G. College, Kanpur, December 07, 2022.</li> <li>3. Webinar on “<b>Recent Trends in Palaeobotany</b>” organized by Department of Botany, Dayanand Girls P.G. College, Kanpur. June 26, 2020.</li> <li>4. 1st International Conference on “ <b>Environment and Society</b>” ( ICES 2019) organized by Glocal Environment &amp; Social Association (GESA), New Delhi; HBTU, Kanpur, Dayanand Girls PG College, Kanpur; Indian Thinker’s Society; Asian Biological Research Foundation (ABRF), India. December 22 &amp; 23, 2019. (Sponsored by Department of Biotechnology, Govt. of India)</li> <li>5. National Seminar on “<b>Future India: Science and Technology</b>”, organized by Indian Science Congress Association, Kanpur Chapter; Dept. of Zoology, Dayanand Girls P.G. College, Kanpur; D.A.V. College &amp; C.S.J.M. University, Kanpur. November 23-25, 2018.</li> <li>6. National Seminar on “ <b>Recent Advances &amp; Emerging Challenges in Biological Techniques</b>”, organized by Dept. of Botany, Dayanand Girls P.G. College, Kanpur, September 20th &amp; 21, 2016. (Sponsored by Dept. of Biotechnology under Star College Scheme, Ministry of Science &amp; Technology, Govt. of India)</li> <li>7. National Seminar on “<b>Science and Technology for Indigenous Development in India</b>”, organized by Indian Science Congress Association, Kanpur Chapter &amp; Dept. of Zoology, Dayanand Girls P.G. College, Kanpur, January 28-29, 2016.</li> </ol>
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	<p>8. National Seminar on <b>“Science and Technology for Human Development ”</b>, organized by Indian Science Congress Association, Kanpur Chapter, December 8- 10, 2014.</p> <p>9. Regional Rural Science Congress on <b>“Innovations in Science and Technology for Inclusive Development”</b>, organized by Indian Science Congress Association, Kanpur Chapter, November 23-24, 2013.</p> <p>10. National Conference on <b>“Global perspective of biological research in the present scenario”</b>, Organized by Department of Botany, Dayanand Girls P.G. College, Kanpur, December 07-08, 2010. (Sponsored by U.G.C., New Delhi)</p> <p>11. National Seminar on <b>“Recent Trends in Biological Scenario”</b>, Organized by Department of Botany, Dayanand Girls P.G. College, Kanpur, December 03, 2009.</p> <p>12. National Seminar on <b>“New Horizons in Biosciences”</b>, Organized by Department of Botany, Dayanand Girls P.G. College, Kanpur, November 29-30 , 2005.</p>
Workshops Organized	National Workshop on <b>“ Basic Techniques in Microbiology”</b> , organized by Faculty of Science, Dayanand Girls P.G. College, Kanpur under Star College Scheme of Dept. of Biotechnology, Ministry of Science and Technology, Govt. of India, October 11-17, 2018.
Research Guidance	<p><b>Ph.D Awarded: Two</b></p> <p><b>Name of the Research Scholar:</b></p> <p><b>1.Priyanka Pandey (CSIR NET) (Enrollment No: 15060006)</b></p> <p><b>Topic of Research:</b> “Pharmacognostic and Phytochemical Evaluation of Selected Plants used in the Treatment of Rheumatoid Arthritis”.</p> <p><b>Year of award of Ph.D. Degree: 2022</b></p>

	<p><b>2. Shikha Dixit</b> (Enrollment No: 15060035)</p> <p><b>Topic of Research:</b> “Morpho-Taxonomic and Phytochemical Evaluation of Medicinal Plants with Potential Anti-Diabetic Activity”.</p> <p><b>Year of award of Ph.D. Degree: 2022</b></p> <p><b>Research scholar enrolled for Ph.D.</b></p> <p><b>3. Akhand Pratap Singh(CSIR NET &amp; GATE)</b> (Enrollment No: PHD202200002356)</p> <p><b>4. Hoshita Gupta</b> (Enrollment No. PHD202300000471)</p>
Life member of various Academic Bodies	<ul style="list-style-type: none"> <li>● Life Member of Indian Science Congress Association</li> <li>● Life Member of the Indian Botanical Society</li> <li>● Life Member of Indian Phycological Society</li> <li>● Life Member of Agricultural Biochemists</li> <li>● Life Member of Society of Ethnobotanists</li> <li>● Member of Higher Education Teaching &amp; Learning Society</li> <li>● Life Member of Shakti</li> </ul>
National/International Awards	<ol style="list-style-type: none"> <li>1. <b>Best Paper Presentation Award (Faculty &amp; Scientists Category) in the National Symposium (SYMBIOT)</b>, organized by Manipal Institute of Technology, Manipal on 26th September, 2019. (Title of the presented paper- <i>Agrobacterium rhizogenes</i> mediated transformation of <i>Artemisia annua</i>).</li> <li>2. <b>Award “ The Fellow of The Indian Society of Agricultural Biochemists”</b> by The Indian Society of Agricultural Biochemists, 2016.</li> <li>3. <b>Teaching Excellence Award</b> by Bharat Vikas Parishad, 2016.</li> </ol>



