

Bio-Data

Name: **Dr. Abha Shukla**

Present Position: Associate Professor

Address: Department of Chemistry, Kanya Gurukul,
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Haridwar-249407, Uttarakhand, India.

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Brief Academic Profile: M.Sc., Ph.D., P.G.D.C.A.

Field of Specialization: Organic Chemistry

Teaching Experience: 19 Yrs.

Research Experience: 27 Yrs.

Industrial Experience: 05 Yrs.

Research Field: Phytochemistry and Environmental Chemistry

Research Papers: 68 [**Annexure I**]

Book Chapters: 04 [**Annexure II**]

Seminars/Conferences Attended: 35

Research Project Completed
(Financed by UCOST): 01 [**Annexure II**]

Membership of Society/s: 03

- (i) Life Fellow, Indian Chemical Society, Kolkata.
- (ii) Life Fellow, Indian Association of Chemistry Teachers.
- (iii) Life Fellow, Indian Science Congress Association Haridwar Chapter.

No. of Students Guided for Ph.D.
(Awarded/Registered): 10

Ph.D. Thesis Awarded:

08

- (i) **Ravindra Kumar** (2015): “Synthesis and Biological Evaluation of Thiazolidinones and Azetidinones as Potential Antimycobacterial Agents”.
- (ii) **Anupriya Adhikari** (2015): “Synthesis and Characterization of Bifunctional Chelating Agents and Their Application in Developments of Targeted Molecular Imaging”.
- (iii) **Swati Vats** (2016): “Phytochemical Investigation and Pharmacological Evaluation of *Reinwardtia indica* and *Dracaena reflexa* of Dehradun Region for Biological Activities”.
- (iv) **Ritu Tyagi** (2018): “Phytochemical Investigation and Biological Evaluation of *Casearia tomentosa* of Dehradun Region”.
- (v) **Amanpreet Kaur** (2020): “Phytochemical Investigation and Pharmacological Analysis of *Ehretia acuminata* R. Br.”.
- (vi) **Anchal** (2021): “Phytochemical Analysis and Pharmacological Evaluation of *Boehmeria rugulosa* of Rishikesh Region”.
- (vii) **Priyanka Pokhriyal** (2022): “A Green Approach Towards Phytochemical and Pharmacological Study of *Ficus subincisa*”.
- (viii) **Supriya Dubey** (2024): “Integrated Green Chemical Approach of Phytochemical and Pharmacological Evaluation of *Heterospathe elata* and *Borassus Flabellifer*”.

Ph.D. students Registered:

02

- (i) **Palak Kansal**: “An Efficient Green Approach Towards Phytochemical and Pharmacological Study of *Ficus drupacea* and *Ficus rumphii* of Uttarakhand”.
- (ii) **Varnika Sharma**: “Valorization of *Aegle marmelos* Fruit Shell and *Brassica Oleracea*

waste through Phytochemical Profiling with Pharmacological and Other Applications”.

Annexure I

Research Papers

1. Palak Kansal, Abha Shukla, Anti-diabetic and Anti-inflammatory activities of Various Green Solvent Extracts of *Ficus drupacea* Leaves, Research J. Pharm. and Tech., Vol. 18(2): February 2025, pp. 619-624. DOI: <https://doi.org/10.52711/0974-360X.2025.00092> (SCOPUS)
2. Rishi Kumar Shukla, Kishan Prajapati, Deepak Painuly, Abha Shukla, Swati Vats, Steroid (novel) and flavonoid from *Litchi chinensis*, and their molecular docking against Spro and Mpro of SARS-CoV-2, and ADME analysis, Journal of Molecular Structure, February 2025, Vol. 1323, pp. 140578, DOI: <https://doi.org/10.1016/j.molstruc.2024.140578> (SCOPUS & WOS) (Elsevier)
3. Supriya Dubey, Abha Shukla, Rishi Kumar Shukla, Ajay Kumar Nutritional value, phytochemical content, and pharmacological screening of *Borassus flabellifer* L. fruits, Natural Product Research, January 2025 (online). DOI: <https://doi.org/10.1080/14786419.2025.2453511> (SCOPUS & WOS) (Taylor & Francis)
4. Abha Shukla, Palak Kansal, Rishi Kumar Shukla, Comprehensive nutritional, anti-nutritional, ICP-MS and FTIR profiling of *Ficus rumphii* leaves: a potential source for dietary enhancement, Natural Product Research, January 2025 (online). DOI: <https://doi.org/10.1080/14786419.2025.2453508> (SCOPUS & WOS) (Taylor & Francis)
5. Kishan Prajapati, Rishi Kumar Shukla, Abha Shukla, Zinc Oxide Nanorods from *Prunus domestica* L.: Bio-Assisted Synthesis, Characterization, Antioxidant and Cytotoxic Activities, Indian Journal of Biochemistry and Biophysics, January 2025, Vol. 62, pp. 78-87, DOI: <http://dx.doi.org/10.56042/ijbb.v62i1.12810>
6. Abha Shukla, Palak Kansal, Traditional Uses, Medicinal Properties and Phytoconstituents of Some Indian *Ficus* Species: A Review, International Journal of Biology Pharmacy and Allied

- Sciences, December 2024, Vol. 13(12): pp. 6267-6281. DOI: <https://doi.org/10.31032/IJBPAS/2024/13.12.8502> (WOS)
7. Kishan, Rishi Kumar Shukla, Abha Shukla, Pankaj Budhlakoti. Therapeutic potentials of characterized isolate from column chromatography by GC-MS and molecular docking of principle active of *Prunus domestica* L. Indian Journal of Chemistry. Vol. 63, July 2024, 692-700
 8. Abha Shukla, Palak Kansal, Supriya Dubey, Rishi Kumar Shukla, Mahendra Pal Singh Parmar, Wild edible *Ficus* fruits of Uttarakhand, India: a natural remedy towards malnutrition and human health enrichment, Natural Product Research, May 2024 (online). DOI: <http://dx.doi.org/10.1080/14786419.2024.2352877> (SCOPUS & WOS) (Taylor & Francis)
 9. Palak Kansal, Abha Shukla, and Rishi Kumar Shukla, Lipidomic Profiling and Pharmacological Activities of *Ficus drupacea* Oil: Comparative Study Between Conventional vs. Green Solvent, Chem. Biodiversity, Vol. 21(4), February 2024, e202302124, pp. 1- 12. DOI: <https://doi.org/10.1002/cbdv.202302124> (SCOPUS & WOS) (WILEY)
 10. Supriya Dubey, Abha Shukla, Anti diabetic and Anti-inflammatory activity of Green Solvent Extracts of *Heterospatha elata* fruits, Research J. Pharm. and Tech., Vol. 17(1): January 2024, pp. 163-168. DOI: [10.52711/0974-360X.2024.00026](https://doi.org/10.52711/0974-360X.2024.00026)
 11. Abha Shukla, Supriya Dubey, Rishi Kumar Shukla, Ajay Kumar, Swati Vats and Priyanka Pokhriyal, A Comparative Study and Characterization of Green Solvent and Hexane Extracted Bioactive lipids from *Heterospatha elata* fruit, Biomedical & Pharmacology Journal, Vol. 16(4), December 2023, pp. 2041-2050. DOI: <https://dx.doi.org/10.13005/bpj/2780>
 12. Ajay Kumar, Abha Shukla, Supriya Dubey, *Curcuma aromatica* Salisb.: An Update on Its Chemical Profile and Biological Activities, National academy Science Letters, Vol. 47(4), July 2023, DOI: <http://dx.doi.org/10.1007/s40009-023-01326-8>
 13. Supriya Dubey and Abha Shukla, Rishi Kumar Shukla, Green synthesis, characterization, and biological activities of Zn, Cu monometallic and bimetallic nanoparticles using *Borassus flabellifer* leaves extract, Current Chemistry Letters Vol. 12, 2023 pp. 799–812 DOI: 10.5267/j.ccl.2023.4.002.

14. Supriya Dubey and Abha Shukla, Rishi Kumar Shukla, Metabolomic Profile by GC/MS and Antioxidant, Antidiabetic and Anti-Inflammatory Activities of Green Solvent Extracts of *Heterospatha elata* Leaves Chem. Biodiversity, 2023. DOI: <https://dx.org/10.1002/cbdv.202300340>
15. Kishan, Shukla RK, Shukla A, Chandra H, Nutritive value, phytochemical screening, total phenolic, in-vitro biological activities and ICP-MS analysis of *prunus domestica* L. Leaves, IJBPAS, Vol.12 No.5, May 2023 pp 2283-2294, ISSN:2277-4998, SCOPUS
16. Ravi Kant, Rishi Kumar Shukla, Abha Shukla, Vineet Kumar Vishnoi and Neelesh Babu, An experimental assessment of antimicrobial Property of phytochemical derivatives Extracted from the peach (*prunus persica* l. Batsch) Leaves, Rasayan J. of Chemistry, Vol. 15, No.3, September 2022, pp1888-1893, ISSN: 0974-1496, SCOPUS
17. Kishan, Rishi Kumar Shukla, Abha Shukla, Sahil Kumar, Characterization of phytochemicals by GC-MS, in-vitro biological assays and micronutrient analysis by ICP-MS of *prunus domestica* L. seeds, Plant Science Today, Vol.9 No.4, October 2022 pp1058-1065, ISSN:2348-1900 (Online), SCOPUS
18. Kishan, R. K. Shukla, A. Shukla and R. Singh, Proximate analysis, phytochemical screening, Total phenolic content and in-vitro antioxidant Potential of *prunus domestica* l. (seed coat, Rasayan J. of Chemistry, Vol. 15, No.1, January - March 2022, pp239-250, ISSN: 0974-1496 e-ISSN: 0976-0083, SCOPUS
19. Priyanka Pokhriyal, Amanpreet Kaur, Abha Shukla, Soniya Dhiman, and Himanshu Gupta, Biocompatible Zinc Nanoparticles Synthesis from *Ficus subincisa* for a Sustainable Tomorrow: Characterization and Therapeutic Applications, Russian Journal of Bioorganic Chemistry, Vol. 50, No. 2,2024, pp. 408–417. 1478-6419
20. Supriya Dubey, Abha Shukla, Antidiabetic and Anti-inflammatory activity of Green Solvent Extracts of *Heterospatha* elated fruits, Research J. Pharm. and Tech., Vol. 17(1): January 2024, PP 163-168. 0974360X
21. Abha Shukla, Priyanka Pokhriyal, Rishi K. Shukla and Amanpreet, A Green and Facile Approach for Antidiabetic and Anti-Inflammatory Potency for *Ficus Subincisa* Fruit INDIAN DRUGS Vol 58 No 08 AUGUST 2021, pp:68-74, ISSN:0019-462X
22. Amanpreet Kaur, Abha Shukla and Rishi Kumar Shukla, In vitro antidiabetic and anti-inflammatory activities of the bark of *Ehretia acuminata* Indian Journal of Natural Products

and Resources, Vol. 12(4), December 2021, pp. 538-543, ISSN: 0976-0512 (Online)
SCOPUS

23. A. Shukla, P. Pokhriyal A desirability approach for Antidiabetic and Anti-inflammatory efficacy of *Ficus subincisa* bark Research J. Pharm. and Tech, Vol 15No.4, April 2022, pp: 0974-360X (Online)
24. Shukla A., Choudhary A., Kaur A., Shukla R.K., Isolation and identification of two triterpenoids from ethyl acetate extract of bark of *Boehmeria rugulosa*, Journal of pharmacy and technology 14(3),2021scopus.
25. Shukla A., Pokhriyal P., Shukla R.K., Antioxidant Potentials of Successive Green Solvent Extract from The Unexplored *Ficus subincisa*, Journal of Advanced applied scientific Research 3(1),25-32,2021, [ISSN :2454-3225] web of science.
26. Shukla R.K., Nandan K., Shukla A., Kaur A., Nutritional importance and phytochemical investigation of *Bombax ceibalinn*. Journal Plant Archives,20(AIAAS)100-103, 2020.ISSN 0972- 5210
27. Shukla R.K., Nandan, K., Shukla A., Kaur A., Phytochemical analysis and Nutritive Value of *Bomba ceibalinn*. (petals) Journal PlantArchives,20(1),1201-1206,2020, Scopus.
28. Shukla A., Kaur A., Shukla, R.K., A comparative study of in vitro Antioxidant Potential, Photoprotective Screening of *Ehretia acuminata* R. Br. Leaves, Indian Drugs, 56(09) (2019) 30-36. ISSN 0019-462x
29. Adhikari A., Tiwari A.K., Shukla A., Mishra A.K., Datta A., Synthesis and Preclinical Evaluation of Radioligand, ^{99m}Tc-DO3A-Et-RPAR for Imaging NRP-1 Specific Tumor, ChemistrySelect,4(44) (2019)12950-12954. ISSN23656549
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31. Shukla A., Kaur A., Shukla R.K. and Choudhary A., Comparative Evaluation of Antioxidant Capacity, Total Flavonoid and Phenolic content of *Ehretia acuminata* R. Br. fruit, Research J. pharmacy&Technology,12(4)1811-1814, 2019.Scopus
32. Shukla A., Kaur A. and Shukla R.K., Comparative Evaluation of Abts, Dpph, Frap, Nitric Oxide Assays for Antioxidant Potential, Phenolic & Flavonoid Content of *Ehretia acuminata* R. Br. Bark International Research Journal of Pharmacy, 9 (12), 100-104,2018. Scopus.

33. Shukla A., Kaur A., A Systematic Review of Traditional Uses Bioactive Phytoconstituents of Genus *Ehretia*, *Asian Journal of Pharmaceutical and clinical Research*, 11(06) (2018),88-100, ISSN2455-3891
34. Shukla A and Choudhary A., Evaluation of in vitro antidiabetic and anti-inflammatory activities of leaves extract of *Boehmeria rugulosa*, *Asian journal of pharmaceutical & clinical research*,9(11),200-203, 2018. Scopus.
35. Shukla A., Vats S., Shukla R.K., Painuly D., Orval A., Singh J., Evaluation of in vitro antimicrobial activity, qualitative phytochemical, proximate composition of leaf and stem of *Reinwardtia indica* Dumort: A comparative study, *Indian Journal of Natural Products and Resources*, 8(3) (2017)248-253.ISSN0976-0504
36. Adhikari A., Kumari N., Adhikari M., Kumar N., Tiwari AK., Shukla A., Mishra A.K, Datta A., Zinc Complex of Tryptophan Appended 1,4,7,10-Tetraazacyclododecane as Potential Anticancer Agent: Synthesis and Evaluation” *Bioorganic & Medicinal Chemistry* 25(13) (2017), 3483-3490. [ISSN: 0968-0896] I.F.:2.92 [ELSEVIER]
37. Tyagi R., Shukla A., Shukla R.K., Vats S., Tyagi C., Choudhary A., “Chemical Characterization and Pharmacological Evaluation of Essential Oil from Leaves of *Casearia tomentosa*”, *International Journal of Pharmacognosy and Phytochemical Research*,9(1) (2017),141- 149 [ISSN:0975-4873] I.F.:0.90 [SCOPUS INDEXED].
38. Tyagi R., Shukla A., Shukla R.K. “Phytochemical Screening and Pharmacological Evaluation of Different Extracts of Plant *Casearia tomentosa* Leaves”, *International Journal of Pharmacy and Pharmaceutical Sciences* 9(4) (2017), 166-171 [ISSN- 0975-1491] I.F.:0.91 [SCOPUS INDEXED].
39. Shukla A., Vats S., Shukla R.K., Painuly D., Porval A. Tyagi R., “Phytochemical Evaluation, Proximate Analysis and Biological Activity of *Reinwardtia indica* Dum. Leaves”, *International Journal of Pharmacognosy and Phytochemical Research*, 8(5) (2016),750-755[ISSN:0975- 4873] I.F.:0.90 [SCOPUSINDEXED].
40. Shukla A., Tyagi R., Vats S. and Shukla R.K., “Total phenolic content, antioxidant activity and phytochemical screening of hydroalcoholic extract of *Casearia tomentosa* leaves”, *Journal of Chemical and Pharmaceutical Research*,8(1) (2016), 136-141 [ISSN: 0975-7384[I.F.:0.90] SCOPUS INDEXED.

41. Shukla A., Tyagi R., and Shukla R.K., "Phytochemical screening and antioxidant activity of the leaves of plant *Casearia tomentosa*", International Journal for Environmental Rehabilitation and Conservation, 6(2) (2015),141-147 [ISSN:0975 -6272]
42. Shukla A., Vats S. And Shukla R.K., "Phytochemical Screening, Proximate Analysis and Antioxidant Activity of *Dracaena reflexa* Lam. Leaves", Indian Journal of Pharmaceutical Sciences,77(5) (2015) 640-644 [ISSN:0250-474X, [I.F.:0.479] [SCOPUS INDEXED].
43. Shukla R.K., Painuly D., Porval A., Shukla A., "Physical Evaluation, Proximate Analysis and Antimicrobial Activity of *Morus Nigra* Seeds" Int J Pharm Pharm Sci, 7(1) (2015), 191-197. ISSN- 0975-1491, I.F-0.57. SCOPUS INDEXED.
44. Shukla A., Adhikari A., Mishra A.K., "Preliminary Evaluation of An Anthraquinone Conjugated Dota Derivative as Spect Agent" Int J Pharm Pharm Sci, 7(4) (2015), 85-89. ISSN - 0975-1491. I.F- 0.57. SCOPUSINDEXED
45. Shukla A., Kumar R., Tyagi D.S., "Synthetic and Pharmacological Evaluation of some 4-Quinazolinone derivatives" Int. J. Chem Tech Res.,6(7)2014, 3847-3850. ISSN- 0974-4290, I.F- 0.57, SCOPUS.
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47. Shukla A., Shukla R.K., Singh J., Painuly D., Porval A,," Chemical Characterization, Total Phenolics and Biological activity of *syzygium cumini*" Annals of Bio-Agri Research 19(40) (2014),680-682. ISSN-0971-9660, I.F. 0.11. SCOPUSINDEXED.
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49. Shukla A., Adhikari A., Datta A., Adhikari M., Chauhan K., Chuttani K., Saw S., Mishra A.K., Preclinical evaluation of Do3A-Act. AQ: A Polyazamacrocyclic Monomeric Anthraquinone Derivatives as a Theranostic agent, Molecular Pharmaceutics, 11, 445-456, 2014.ISSN- 1543-8392. I.F. 4.57. ACS. Scopus
50. Kumar A., Shukla A., "GC/MS Analysis of essential oil isolated from the roots of *Cymbopogen Winterianus* Jowitt", Journal of Chemistry and Chemical Science,4(1),35-41,2014.

51. Shukla R.K, Porval A., Shukla A., Painuly D., Singh J., Kumar V., Bhutiani R. and Vats S.
“Phytochemical screening, total phenolic content determination and antimicrobial activity of *Ocimum gratissimum* root”, *Journal of Chemical and Pharmaceutical Research*,7(8) (2015), 1052-1056 [ISSN: 0975-7384 CODEN(USA): JCPRC5] I.F.0.9, [SCOPUSINDEXED].
52. Shukla R.K., Painuly D., Porval A., Shukla A., “Proximate Analysis, Nutritional Value, phytochemical evaluation and biological Activity of *Litchi chinensis* Sonn. Leaves”, *Journal of Herbs, Spice & Medicinal plants*, 20, 196-208, 2014. ISSN- 0975-1491, I.F. 0.57. SCOPUS.
53. Kumar R., Shukla A., Tyagi D.S., “Synthesis of Bio Active Azetidinones of 4-phenyl-1,3-thiazol- 2-amine”, *International Journal of Scientific and Research Publications*”, *Chemical Science Transactions*, 2013. ISSN-2278-3458.
54. Shukla A., Vats S., Shukla R.K., “Preliminary Phytochemical, Antibacterial and Nitric oxide radical scavenging activity of *Reinwardtia indica* leaves extract”, *International Journal of Pharma Tech Research*, 5(4), 1670-1678, (2013). ISSN- 0975-1491, I.F. 0.57, SCOPUS.
55. Shukla R.K., Painuly D., Shukla A., Porval A., “Phytochemical investigation and antimicrobial screening of extracts of *Litchi chinensis* leaves from Dehradun region, India”, *Environment Conservation Journals*,13(1&2),7-10,2012. ISSN- 0972-3099. I.F.0.58.
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59. Shukla A., Kumar R., Tyagi D.S., “An Efficient Synthesis of Bio Active Azetidinones and Thiazolidinones of 3-metyl-1-phenyl-1-hprazol-5-ol”, *International Journal of Scientific and Research Publications*, 2(6), June 2012. ISSN-2250-3153 I.F. 1.22. SCOPUS.

60. Shukla A., Shukla R.K., "Chemical, Antimicrobial and antioxidant studies of myristicafragrans constituents and applications of spilanthescmella", Journal of chemistry in Asia, 1, 1-7, 2011. ISSN-0975-9468.
61. Shukla A., Kumar R., Tyagi D.S., "Synthesis and antimicrobial studies of Thiazolidinones", Journal of chemistry in Asia, 2(2&3), 130-136, 2011. ISSN-0975-9468.
62. Shukla A., Shukla R.K., "Studies of chemical constituents and applications of spilanthescmella", Journal of chemistry in Asia, 4,227-233, 2010.ISSN-0975-9468.
63. Indrayan AK, Shukla RK, Shukla A. "Medicinal Plant Trade in Dehradun, Saharanpurand Haridwar- A Study" J. MAPs,22, 2000 ISSN: 1744-5647 Taylor &Francis.
64. Singh DK and Mishra A., "Removal of phenolic compounds from water by using chemically treated saw dust". Indian journal of environmental health;32(4):345-51, 1990.
65. Singh DK and Mishra A., "Removal of organic Pollutants by the use of Iron (III)Hydroxide-Loaded Marble" Separation science and technology 28(10) 1923-1931,1993Taylor and Fransis Publication.
66. Singh DK and Mishra A., "Chromatographic Separation of some Phenols by new adsorbent"15(2)369-380,1992, Taylor and Francis Publication.
67. Singh DK and. Mishra A., "Spectrophotometric Determination of aromatic amines with 1,2-Naphthaquinone- 4-sulfonic acid", Himalayan Chemical and Pharmaceutical Bulletin (HCPB)7,11- 13,1990.
68. Singh DK, MISHRA A, "Thin layer chromatography of aromatic amines on silica gel G impregnated with ammonium cerium (IV) nitrate" JPC. Journal of planar chromatography, 5 (4), 284-286,1992 –Springer.

Annexure II

Books Chapters Published

1. Research and Review in Agronomy Vol. 5., Weser Books Germany, 2024-2025, ISBN: 978-3-96492-315-8.
2. Recent Advances in Chemical Sciences Vol. 2., Weser Books Germany, 2024-2025, ISBN: 978-3-96492-525-1.
3. Recent Developments in chemistry and Biochemistry Research Vol. 2., BP international West Bengal India, 2023-24, ISBN: 978-81-972325-2-7.
4. Sustainable Utilization and Conservation of Biological wealth, Indu Book Services Pvt. Ltd. New Delhi, 2023-24, ISBN: 978-93-91377-88-5.

Research Project Completed

1. Wild edible fruits of *Ficus* genus as a contribution to sustainable development: A phytochemical and pharmacological analysis from Uttarakhand region. UCOST Dehradun, (Tenure: 2 Years).