

## ACADEMIC PROFILE

1. Name of faculty member                    Dr. Nisha
2. Date of Birth:                                01 May 1990
3. Designation:                                 Assistant Professor
4. Qualification:                                M.Sc. Botany Ph.D Botany
5. E-mail:                                         [nishaarya24@gmail.com](mailto:nishaarya24@gmail.com)
6. Area of Specialization/ Research field: Biochemistry, Plant biodiversity, Plant taxonomy, Plant ecology and Ethanobotany
7. Any Other Information:
  - a.) In charge: Different committees in College
  - b.) Annual member, Indian Botanical Society (IBS)



### 8. M. Sc. Dissertation guided- 02

1. **Dye yielding plants of Doda district (J&K)** to H.N.B Garhwal University, Srinagar (Garhwal, Uttarakhand) for the partial fulfilment of Master of Science degree botany by **Priyanka Rakwal MSc botany IV semester**, enrolment number: G162040806
2. **Survey on medicinal plants of Doda district (J&K)** to H.N.B Garhwal University, Srinagar (Garhwal, Uttarakhand) for the partial fulfilment of Master of Science degree botany by **Poonam Rakwal MSc botany IV semester**, enrolment number: G162040805

### *Achievements*

- Recipient of “**Krishi Vigyan Gaurav Award**” in PhD., degree programme during the year 2016
- **Best article award** for article ID 37327, entitled “Forest fire: Burning forest turning biodiversity into ashes” published in Agriculture & food: e-Newsletter ISSN-2581 8317 /29/09/2022

### *Publications*

1. **Nisha, D.S.R. and Rao, P.B.**, 2015. Diversity of wild legumes in Pantnagar. *International Journal of Basic and Applied Agricultural Research*, 13(1), pp.42-49.

2. **Nisha** and Rao, P.B., 2016. *Trigonella foenum-graecum*: A Common Indian Spice with Medicinal Properties. *Research Journal of Pharmacy and Technology*, 9(2), pp.173-176.
3. **Nisha** and Rao, P.B., 2016. Atomic Absorption Spectrophotometer (AAS) analysis for evaluation of variation in mineral content in different varieties of *Trigonella foenum-graecum* L. *Legume Research-An International Journal*, 41(1), 132-134.
4. **Nisha** and Rao, P.B., 2017. Variation in Physical and Biochemical Properties of different varieties of fenugreek (*Trigonella foenum-graecum* L.) during different growth stages. *Indian Horticulture Journal*, 6(3), pp.372-374
5. **Nisha** and Rao, P.B., 2017. Analysis of variability in physical-biochemical properties of Different varieties in fenugreek (*Trigonella foenum-graecum* L.) during different growth stages. *Res. on Crops* **18** (2) : 335-339
6. **Nisha** and Rao, P. B. 2017. GC-MS and FT-IR Analysis for determination of bioactive compounds in fenugreek (*Trigonella foenum-graecum* L.) var. 'GM-2'. *Applied Biological Research*, 19(3), 307-314.
7. Deupa, P., Pant, V., **Nisha** and Rao, P. B. 2018 Antioxidant activity and total phenolic content in 15 commonly used cucurbits in Tarai region of Kumaun, Uttarakhand. *International Journal of Pharmaceutical Research*, 4 (9) 74-79.
8. Khati, P., **Nisha**, Parul., Bhatt, P P., Kumar, R and Sharma, A. 2018. Effect of nanozeolite and plant growth promoting rhizobacteria on maize. *3 Biotech* (2018) 8:141.
9. **Nisha** and Rao, P. B. 2018. Gas Chromatography-Mass spectrometry analysis for identification of bioactive compounds in selected genotypes of *Trigonella foenum-graecum* L. *The Pharma Innovation Journal*; 7(4): 929-939
10. **Nisha**, Dinesh Chandra, Rohit Kumar and P. B. Rao 2019. Potential uses and role of crop residues in agriculture. *International journal of botany and Research (ijbr)* issn (p): 2277–4815; issn (e): 2319–4456 vol. 10, issue 2,
11. Chandra, D., General, T, **Nisha** and Chandra, S. 2019. Microorganisms: an asset for decontamination of soil. In *Smart Bioremediation Technologies* (pp. 319-345). Academic Press.
12. **Nisha** and Dinesh Chandra. 2019. Plants as a Source of Natural Dyes, *Advance Botany Vol-1*, AkiNik Publications ISBN:978-93-5335-411-4, pp 23-38
13. **Nisha**, Priyanka Khati and P.B. Rao 2019. Profiling the Seed Storage Protein Among Different Genotypes of *Trigonella foenum-graecum* L. (Fenugreek) *Legume Research*, DOI: 10.18805/LR-4042

14. **Nisha** and Rao, P. B. 2021. Review on pharmacological properties of *Andrographis paniculata* (Burm.f.) Nees Journal of Medicinal Plants Studies 2020; 8(4): 286-291
15. **Nisha** and Rao, P. B. 2021. Diversity of Some Important Wild Edible Plants of Kumaun Uttarakhand: A Review. Agricultural Reviews. 2021.(42):371-380
16. **Nisha** and Rao P.B. 2022 *Dioscorea bulbifera* L “Air Potato”: An emerging traditional medicinal plant, Agriculture and Food: E-Newsletter E-ISSN:2581-8317
17. **Nisha** and Rao P.B. 2022, Forest Fire: Burning Forest Turning Biodiversity into Ashes. Agriculture and Food: E-Newsletter E-ISSN:2581-8317
18. **Nisha, Khati P and Kumari A**, सामान्य आक्रामक विदेशी प्रजातिया की उपयोगिता. कुमाऊं, उत्तराखंड मध्य भारत कृषक भारती ISSN-2582-5976, [www.krishakbharti.in](http://www.krishakbharti.in) (popular article)

#### ***Abstract published***

1. **Nisha** and D. S. Rawat. “Diversity of Caesalpinoideae and Mimosoideae In Pantnagar”. At 7<sup>th</sup> Uttarakhand State Sciences & Technology Congress-2012.
2. **Nisha** and **P.B. Rao**. “Analysis of antioxidant activity, phenolic and flavonoid content of selected varieties of fenugreek (*Trigonella foenum graecum* L.) Leaves extract”. At Asian Plant Science Conference 2014.
3. **Nisha**, D.S. Rawat and P.B. Rao. “Floristic survey of Caesalpinoideae R. Br. and Mimosoideae R.Br. in Pantnagar”. At International Science congress association 2015.
4. **Nisha** and Rao, P.B. “Evaluation of antioxidant activity, total phenolics flavonoids & micronutrient content in selected varieties of fenugreek (*Trigonella foenum-graecum* l.) Seed extract”. At the International Conference on Agriculture Sciences and food technologies for sustainable developments and food Security-2016.
5. **Nisha** and Rao, P.B. “Physiological and Biochemical analysis of selected varieties of fenugreek (*Trigonella foenum graecum* L.)” Crop diversity and environmental entrepreneurship 2016.
6. **Nisha** and Rao, P.B. “Evaluation of antioxidant activity, total phenolics and flavonoids content of selected varieties of (*Trigonella foenum graecum* l.) Seed extract” at 10<sup>th</sup> Uttarakhand State Sciences & Technology Congress-2016.

#### ***Conferences/ Symposiums/Workshops/Trainings Attended***

- Participated and Presented Research paper entitled “Diversity of Caesalpinioideae and Mimosoideae In Pantnagar” in 7<sup>th</sup> Uttarakhand State Sciences & Technology Congress-2012.
- Participated and Presented paper entitled “Floristic survey of Caesalpinioideae R. Br. and Mimosoideae R.Br. in Pantnagar” at At International Science congress association-2015, organised by Pacific University Udaipur Rajasthan.
- Participated and Presented Research paper entitled “Evaluation of antioxidant activity, total phenolics and flavonoids content of selected varieties of (*Trigonella foenumgraecum* l.) Seed extract” in 10<sup>th</sup> Uttarakhand State Sciences & Technology Congress-2016.
- Participated and Presented research paper entitled “Evaluation of antioxidant activity, total phenolics flavonoids & micronutrient content in selected varieties of fenugreek (*Trigonella foenum-graecum l.*) Seed extract” At the International Conference on Agriculture Sciences and food technologies for sustainable developments and food Security- 2016, organised by Agriculture University Banaguluru India.
- Attended three days workshop and hands cum training on “Recent trends in bioinformatics and its application in modern biotechnology” organized by Uttarakhand council of Biotechnology Biotech Bhawan Haldi, U.S. Nagar 2015.
- Attended one day workshop on “Indigenous and Traditional Knowledge of Agriculture in relation to intellectual Property Rights” organized by G.B. Pant University of Agriculture & Technology, Pantnagar, Uttarakhand, on January, 2015.
- Attended five day online Faculty Development program (FDP) on “Domestic and Industrial Water and Wastewater Treatment” held during 6th to 10th June 2020. Organized by department of chemical engineering B V RAJU INSTITUTE OF TECHNOLOGY (UGC Autonomous) Affiliated to JNTUH, Telangana Vishnupur, Narsapur, Medak -502313
- Attended online conference on “Environmental pollutants and cancer” on 20<sup>th</sup> and 21<sup>st</sup> may 2020 organized by Central University of Himanchal Pradesh, School of life sciences Shahpur Dist Kangra Himanchal Pradesh

- International Webinar on “*Intellectual Property Rights, An Overview: Myth & Realities*” on 6<sup>th</sup> June 2020 organised by the Department of Botany and Department of Commerce & Management, organized by KLE Society’s Science & Commerce College Kalamboli, Navi Mumbai, India
- One day state level workshop on NAPS technical training and SDP Awareness on 11/10P/2022 organized by career counseling and placement cell, M.B.P.G College Haldwani (Nainital), directorate of Higher Education Uttarakhand