

Curriculum Vitae	
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Name: Rosy Kumari Kundra
Father's Name: Sh. Kanahaya Lal
Mother's Name: Smt. Sunita Devi
Date of Birth: 20th March, 1985
Place of Birth: Pantnagar
Designation: Assistant Professor/ PhD Scholar
Nationality: Indian
Present Postal Address: Basti Tanka Wali House No. 568, street 24/4, Ferozepur City, Punjab

Mobile No. +91 8219792743
E- Mail: rosy.kundra@gmail.com
Permanent Address: Basti Tanka Wali House No. 568, street 24/4, Ferozepur City, Punjab
Language Known: English, Hindi, Punjabi
Marital Status: Unmarried
Years of experience 08 Years 02 Months till 5/08/2019
03 Years (As an Assistant Professor)

EDUCATIONAL QUALIFICATION

Name of Examination Passed	Name of University	Year of Passing	Subjects	Marks %
Matriculation (10th)	U.K BOARD	2002	All Science Subjects	50.83
10+2 (Medical Science)	U.K BOARD	2004	All Science Subjects	50.20
B.Sc. Biotechnology	Kumaun Univ, Nainital	2008	All Biotechnology Subjects	62.71
M.Sc. Biotechnology	H.N.B Garhwal Univ, Srinagar	2010	All Biotechnology Subjects	72.12
Ph.D.	Department of Biotechnolgy, Kumaun University	21-09-2024	Biotechnology,	76.00

Nainital, Uttarakhand

EXPERIENCE	
Employer Name	Rosy Kudra
Position Held	JRF, SRF & Senior Project Fellow
Year/ Month	6 Year 2 Month (From June 27, 2013- August 5, 2019)
Duties Performed	➤ To monitor the floristic diversity ➤ To assess the economically important biodiversity ➤ To assess biochemical diversity pattern of high value medicinal plants ➤ To develop Ex/In-vitro propagation protocols ➤ To suggest suitable management plan for the conservation of biodiversity ➤ Impact of climate change on shifting of vegetation ➤ To aware the local communities for the cultivation processes and their sustainable use for their livelihood ➤ Development of Peoples Biodiversity Register (PBR) in selected Panchayats of Kullu District

PROJECTS AND JOB EXPERIENCE

- 3rd year B.Sc Biotech Project on “Citric acid production by *Aspergillus niger*” in the Department of Biotechnology, Govt. MBPG College, Haldwani, Nainital
- 2nd year M.Sc Biotech Project on “Vermibiotechnology” in the Institute of Biotechnology, G.B. Pant University of Agriculture & Technology, Patwadangar, Nainital
- Eight months, worked experience of teaching in PTU, LC, Kathgodam.
- Eight months, worked experience in CSIR-Central Institute of Medicinal Aromatic Plants, Research Center PANTNAGAR as a Project Assistant Level-II.
- Eight months worked experience in NITIKA AYURVEDICS Pvt. Ltd. 'ERASER' COSMATIC COMPANY DEHRADUN.
- Promoting conservation and sustainable development of Himalayan biodiversity elements using biotechnological application
- Development of People's Biodiversity Register (PBR) in selected Panchayats of Kullu District.
- Worked in Agriculture department as an Assistant Professor on consolidated basis since 20/08/2019 to August 2022 in the Shaheed Bhagat Singh State University, Ferozepur.
- Still working in Pharmaceutical Department, Maharaja Ranjit Singh Punjab Technical University, Bathinda, since august, 2024.

TECHNICAL SKILL

- **Computer Experience:** Experience of handling different packages of computer application e.g. MS-office package (like MS Word, Excel, Power Point, *etc.*) and handling statistical packages (Sigma plot, SPSS, Google Map *etc.*).
- **Field experience:** Sampling and Survey, Impact Assessment, Forest management, Plantation techniques *etc.*
- **Laboratory experience:** Soil analysis, Plant tissue culture, Plant morphological analysis, Biochemical analysis, antimicrobial analysis, Heavy metal analysis, Pesticide analysis and molecular analysis *etc.*
- **Technical reports:** Efficient for preparation of technical reports (APR), thesis, article, paper and miscellaneous writing
- **Remote sensing and GIS:** Basic knowledge of Google Earth
- **Office Equipments:** Photostat machine, Fax, Scanner *etc.*
- **Field Equipments:** GPS, and Camera *etc.*
- **Scientific Instrumentations & Analytical Skills**

Familiar with below mentioned Scientific Instruments and have specialization in data processing and analysis

- PH meter
 - UV-Spectrophotometer
 - Flame photometer
 - Distillation unit
 - Soxhlet extractor
 - Oil extraction unit
 - Centrifuge
 - Laminar air flow
 - Plant tissue culture techniques (Ex-situ and In-situ methods)
 - Kjeldal instrument
 - PAGE, TLC, Electrophoresis, HPLC & GC *etc.*
 - Global Positioning System (GPS)
 - Nitrogen analyser
 - Leaf area meter
 - Autoclave
 - Incubator
 - Shaker
- **Photography:** Sound knowledge of handling Video and Digital cameras

OTHER SKILL

- ❖ **Expedition:** Survey cum tracking experience of upto 2100-3500m amsl attitude of alpine regions of Great Himalayan National Park and Manali Wildlife Sanctuary, Kanawar Wildlife Sanctuary, Khokan Wildlife Sanctuary and Rohtangralla fall in Kullu district of Himachal Pradesh.
- ❖ Easy to adapt under tough climatic conditions
- ❖ Very innovative thinking and analyzing behavior

OTHER EXPERIENCE

- Trained for the survey, sampling, preparing herbarium, data collection, analysis and documentation of the temperate, sub-alpine and alpine vegetation
- Worked on the qualitative and quantitative assessment of vegetation, conservation of economical biodiversity and impact of climate change on biodiversity
- Collection and conservation of rare and endangered plants of Trans and North West Himalayas and their establishment in Dauranallah and Mohal herbal garden cum nurseries of GBPNIHESD Himachal Regional Centre, Mohal-Kullu
- Preparing *Bioresource Inventory* of various groups of plant species of the Indian Himalayan Region (IHR)
- Development and maintenance of the Herbal Garden, Nurseries and Arboretum at Mohal Campus of the GBPNIHESD, Himachal Regional Centre, Mohal-Kullu, Himachal Pradesh
- Documentation, compilation of various reports of the Mohal Campus of the GBPNIHESD, Regional Centre, Mohal-Kullu, Himachal Pradesh

RESEARCH PUBLICATIONS

- Sharma RK, **Kundra R**, Raghuvanshi R (2015). Antioxidant activity of garlic (*Allium sativum* L.) crops grown in north western Indian Mountains. Published in Journal of Environmental and Applied Bioresearch, ISSN: 23198745, vol. 03, no. 03, pp. 155-158.
- R K Sharma, N Sharma, S Khatri, **R. Kundra** (2015). Antioxidant properties of fruit pulp and peel of eight apple cultivars grown in Himachal Pradesh. International Journal of Food and Nutritional Sciences, e-ISSN 2320-7876, Vol.4, Iss.4.
- Raghuvanshi R, Sharma RK, **Kundra R** (2015). Screening of pea (*Pisumsativum* L.) cultivars for promoting their cultivation in Kullu Valley, north-western Indian Himalaya. In: Horticulture and Agriculture (Eds. Bharti PK, Bhandari G) Discovery Publishing House Pvt. Ltd., Delhi. Pp. 56-64, ISBN: 978-93-5056-782-1.
- **Kundra R**, S. S. Samant, S. K. Nandi, R. K. Sharma (2017). Investigation of antioxidant properties of *Withaniasomnifera* (L.) Dunal and influence of physico-chemical properties of soil along the topographic gradients in sub-tropical region of the Indian Himalaya. International Journal of Phytomedicine, ISSN: 0975-0185, Vol. 9 (3), pp. 407-415. DOI:10.5138/09750185.1986.
- Sharma RK, **Kundra R**, Samant SS, Nandi SK (2017). Antioxidant Properties of Methanol Extracts from *Olea ferruginea* Royle Seeds, National Academy of Science Letter, ISSN: 2250-1754, Vol. 40, pp. 379-382, Iss.5. DOI: 10.1007/s40009-017-0587-9.
- Devi K, Samant SS, Puri S, **Kundra R**, Kumari P (2018). Investigation of antioxidant and radical scavenging potential of *Angelica glauca* Edgew. and *Aralia cachemirica* Decne: A high value medicinal plants from Kanawar wildlife sanctuary in Himachal Pradesh of north western

Himalayas, Medicinal Plants: International Journal of Phytomedicine and Related Industries, Vol. 10(04), December, 312-319. DOI: 10.5958/0975-6892.2018.00047.3.

- **Kundra R**, SS Samant, Sharma RK (2019). Assessment of antioxidant potential of *Trillium govanianum* a critically endangered medicinal plant of North-Western Indian Himalaya: Proceedings of the National Academy of Sciences, India Section B: Biological Sciences, <https://doi.org/10.1007/s40011-018-01062-w>.
- Kumari P, Samant SS, Puri S, **Kundra R**, Devi K (2018). Investigation of antioxidant activity of selected medicinal plants *Cinnamomum tamala* Nees & Ebern and *Pittosporum eriocarpum* Royle in Central Himachal Pradesh, North Western Himalaya, India Medicinal Plants: International Journal of Phytomedicine and Related Industries, Vol. 11 (2), June 2019, 117-124.
- Kumar V, Samant SS, Prakash om, **Kundra R**, Singh A, Dutt S & Tewari LM (2019). Diversity, Distribution, Indigenous Uses and Conservation of Orchids in Khokhan Wildlife Sanctuary of Himachal Pradesh, North Western Himalaya, Journal of Orchid Society India, Vol. 33:121-129.
- **Kundra R**, SS Samant, Kumar V and Pande V (2020). Callus mediated organogenesis in *Lilium polyphyllum* D. Don: a critically endangered Astavarga plant from North Western Indian Himalaya, India Medicinal Plants: International Journal of Phytomedicine and Related Industries, Vol. 12 (3), September 2020, 414-421.
- **Kundra R**, Samant SS, Pande V and Goyal V (2023). Antioxidant activities of *Lilium polyphyllum* D. Don- a critically endangered medicinal plant of North Western Indian Himalaya, India Medicinal Plants: International Journal of Phytomedicine and Related Industries, Vol. 15 (1), March 2023, 132-138.

Abstracts/Pump lets:

- Attended and presented a paper entitled “Antioxidant activities of methanol extract of *Withania somnifera* L. fruits collected of Kullu valley and adjacent populations in Himachal Pradesh” in National conference on “Perspective & trends in plant sciences and biotechnology ” scheduled held on Feb 21-23, 2014 Panjab University Chandigarh.
- Present an Oral Presentation on Topic entitled as “Investigation of total phenolic compounds in methanol extracts of rhizomes, stems and leaves of *Trillium govanianum* Wall. ex Royle and their antioxidant activities” on National Conference on “Biodiversity Conservation Pollution Control-Challenges and Strategies (BCPC-2016)” 9-10th March 2016 and Organized by Department of Environmental Sciences University of Jammu, Jammu-180006 and **got 2nd prize**.
- Present an Oral Presentation on Topic entitled as “Investigation of antioxidant activity and development of in-vitro propagation for *Lilium polyphyllum* D. Don ex Royle a critically endangered medicinal plant in Indian Himalayan Region” on 9th International Congress of environmental Research, February 08-10, 2018 and Organized by Journal of Environmental Research And Development, Bhopal, India Amity University Madhya Pradesh, Gwalior, India.

TECHNICAL REPORTS

A. Annual/Final Technical reports :

- **Annual Progress Report** submitted **Rosy Kundra 2012** “New variety release of *Mentha arvensis* and germplasm preservation”.
- **Annual Progress Report** submitted **Rosy Kundra 2014** “Promoting conservation and sustainable development of Himalayan biodiversity elements using biotechnological applications”.
- **Annual Progress Report** submitted **Rosy Kundra 2015** “Promoting conservation and sustainable development of Himalayan biodiversity elements using biotechnological applications”.
- **Annual Progress Report** submitted **Rosy Kundra 2016** “Promoting conservation and sustainable development of Himalayan biodiversity elements using biotechnological applications”.
- **Annual Progress Report** submitted **Rosy Kundra 2017** “Promoting conservation and sustainable development of Himalayan biodiversity elements using biotechnological applications”.
- **Final Technical Report Rosy Kundra 2018** “Promoting conservation and sustainable development of Himalayan biodiversity elements using biotechnological applications”.
- **Annual Progress Report** submitted **Rosy Kundra 2019** “Development of People’s Biodiversity Register (PBR) in selected Panchayats of Kullu District”.

WORKSHOP/TRAINING

- **Workshop on Biotechnology Education (6th-7th October, 2007)** organized by **Dolphin (P.G.) Institute of Bio Medical and Natural Sciences, Dehradun** under the auspices of **State Biotechnology Programme, Govt. of Uttarakhand, Haldi, U.S. Nagarand** in collaboration with **Forest Institute and Wild Life Institute of India, Dehradun**.
- Participated in “**Entrepreneurship Awareness Camp (26th -28th December, 2007)** organized by **National Science and Technology Enterprenureship Development Board, Department of Science and Technology, Government of India** in collaboration with **M.B.P.G. College Haldwani**.
- Participated in poster presentation in “**Biologk**” lecture series on Biotechnology organized by **Beehive (PG) College, Dehradun** under the auspices of **State Biotechnology Programme, Govt. of Uttarakhand, Haldi, U.S. Nagarand** in collaboration with **ONGC, Dehradun**.
- “**Short Term Training on Immunomodulation**” held during February 14-19th, 2010 at **Institute of Biotechnolgy, G.B. Pant University of Agriculture and Technology, Patwadangar, Nainital**.
- “**Short Term Training on Chromatography Techniques**” held during March 15-20th, 2010 at **Institute of Biotechnolgy, G.B. Pant University of Agriculture and Technology, Patwadangar, Nainital**.

- Participated in “Regional Seminar on IPR issues in Biotechnology” held on March 24th, 2010 at **Institute of Biotechnology, G.B. Pant University of Agriculture and Technology**, Patwadangar, Nainital.
- Essay competition in on “Role of Biotechnology in Animal Health and Production” held on World Veterinary Day (Shalihotra Jayanti) April 28th, 2010 at **Institute of Biotechnology, G.B. Pant University of Agriculture and Technology**, Patwadangar, Nainital.
- **Entrepreneurship Programme** (August 24th -25th, 2011) organized by **Uttarakhand Science Education Research Center and Technology Department, Dehradun** at **CSIR-CIMAP, RC, Pantnagar**.
- Participated in **Advance Training Program** (January 23th - 29th, 2012) on “**Recent Trends in Plant Biotechnology & Transgenics**” sponsored by **State Biotechnology Programme, Govt. of Uttarakhand**, Haldi, U.S. Nagar at **Thapar University Patiala**.
- Participated in poster presentation in 1st International Conference on “**New Horizons in Pharmaceutical & Biomedical Sciences (January 12th -13th, 2013)**” held at, Shri Ram Auditorium, Sidhartha College of Pharmacy, Dehradun.
- Participated in poster presentation in **National conference** on “**Perspective & Trends in Plant Sciences and Biotechnology**” scheduled held on Feb 21-23, 2014, **Panjab University Chandigarh**.
- Participated in an Oral Presentation in **National Conference** on “**Biodiversity Conservation Pollution Control-Challenges and Strategies (BCPC-2016)**” 9-10th March 2016 and Organized by Department of Environmental Sciences University of Jammu, Jammu. Present an Oral Presentation on Topic entitled as “Investigation of total phenolic compounds in methanol extracts of rhizomes, stems and leaves of *Trillium govanianum* Wall. ex Royle and their antioxidant activities” on National Conference on “**Biodiversity Conservation Pollution Control-Challenges and Strategies (BCPC-2016)**” 9-10th March 2016 and Organized by Department of Environmental Sciences University of Jammu, Jammu-180006 and **got 2nd prize**.
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CONFERENCE ATTENDED

- Poster presentation in “**Biologk**” lecture series on Biotechnology organized by Beehive (PG) College, Dehradun under the auspices of **State Biotechnology Programme, Govt. of Uttarakhand**, Haldi, U.S. Nagar and in collaboration with **ONGC, Dehradun**.
- **Entrepreneurship Programme** (August 24th -25th, 2011) organized by **Uttarakhand Science Education Research Center and Technology Department, Dehradun** at **CSIR-CIMAP, RC, Pantnagar**.
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- Poster presentation in **National conference** on “**Perspective & Trends in Plant Sciences and Biotechnology**” scheduled held on Feb 21-23, 2014, **Panjab University Chandigarh**.

- Participated in an Oral Presentation in **National Conference on “Biodiversity Conservation Pollution Control-Challenges and Strategies (BCPC-2016)”** 9-10th March 2016 and Organized by Department of Environmental Sciences University of Jammu, Jammu.
- Paper presented in **9th International Congress of Environmental Research** at Amity University Madhya Pradesh, Gwalior, India from 08-10 February 2018.

MEMBERSHIP OF PROFESSIONAL SOCIETIES (01)

- Indian Science Congress Association, Kolkata

References		
1.	Full Name	Dr. S.S. Samant
	Designation	DSc, FNASC, FSE, Director
	Institutional Affiliation (Present)	Himalayan Forest Research Institute, Conifer Campus, Panthaghati, Shimla, Himachal Pradesh-171013
	Mobile No.	+919816316318
	Email	samantss2@rediffmail.com
2.	Full Name	Dr. T. S. Siddu
	Designation	Mechanical Engineering, Professor, Former Director, SBSSTC, Ferozepur, now known as SBSSU, Ferozepur
	Institutional Affiliation (Present)	Shaheed Bhagat Singh State University, Ferozepur, Punjab-152002
	Mobile No.	+918288012001
2.	Full Name	Dr. R. K. Sharma
	Designation	Assistant Professor
	Institutional Affiliation (Present)	Department of Botany, Banaras Hindu University Varanasi -221005
	Mobile No.	+919418916445
	Email	Rajeshbhu78@gmail.com

EXTRA CURRICULAR ACTIVITIES

- Cooking and event management
- Arrangement of meetings, preparation of rangoli, decoration and anchoring.
- Trekking in Forest, villages and high altitude area

Certification

I affirm that all information supplied by me as above is true and correct. I also fully understand that if at any stage, it is discovered that any attempt has been made by me to willfully conceal or misrepresent

the facts, my candidature may be summarily rejected or employment terminated.

Signature of candidate

A handwritten signature in blue ink, appearing to read 'R. S. K.', is written over a horizontal line.

Date: 14-04-2024