

**Ritik Dogra**

**M.Sc Microbiology, Ph.D. Microbiology (Pursuing)**

**Deputy Quality Manager and Section In charge Microbiology/ Molecular Diagnostics  
Centre For Research and Innovative Scientific Studies LLP, Parent Organization of DNA Labs,  
Dehradun, Uttarakhand**

**Former State Co-Ordinator of Microbiologist Society of India (MBSI), Uttarakhand Chapter**

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### **Professional/Academic Career**

| <b>Designation</b>                                                                                                  | <b>University/Institute</b>                                                                                                                                                                                                                                                                                                                                                       | <b>Year</b>    |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>Deputy Quality Manager<br/>Section I/C<br/>Microbiology/Molecular<br/>Diagnostics and<br/>Research Assistant</b> | Centre For Research And Innovative Scientific Studies<br>LLP<br><br><b>Work Profile</b> <ul style="list-style-type: none"><li>• Research, Teaching and Training in the fields of Molecular Biology, Virology, Forensic Sciences, Microbiology and Immunology.</li><li>• Cell Culture Techniques and CRISPR -Cas9 Technology</li><li>• Quality Control as per NABL Norms</li></ul> | 2024 till date |
| <b>Research Trainee<br/>M.Sc. Microbiology</b>                                                                      | Himachal Pradesh University<br><b>Exploring Microbial Diversity in <i>Malus domestica</i><br/>‘Royal Gala’ (D) Plant Rhizosphere and Development<br/>of Microbial Consortia to Evaluate its Efficacy in Plant<br/>Growth Promotion</b>                                                                                                                                            | 2022-2024      |
| <b>Research Trainee<br/>B.Sc. (Hons.)<br/>Microbiology</b>                                                          | Shoolini University<br><b>Antimicrobial Studies against UTI Pathogens<br/><i>Asparagus racemous</i></b>                                                                                                                                                                                                                                                                           | 2019-2022      |

### **Training Experience**

|          | <b>University/Institute</b>                                    | <b>Experience</b>                                                                                                         |
|----------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>1</b> | <b>DNA Labs- CRIS (Centre Research and Innovative Studies)</b> | <b>Mammalian Cell Culture,<br/>CRISPR CAS 9, Molecular<br/>Biology, Forensic Virology and<br/>Microbiology Techniques</b> |
| <b>2</b> | <b>Himachal Pradesh University</b>                             | <b>Molecular Biology,<br/>Microbiology, Forensics<br/>Technique</b>                                                       |
| <b>3</b> | <b>Shoolini University</b>                                     | <b>Molecular Biology,<br/>Microbiology and<br/>Biotechnology Techniques</b>                                               |

## Online Training Experience

|   | University/Institute                                   | Course                                                              |
|---|--------------------------------------------------------|---------------------------------------------------------------------|
| 1 | McMaster University (Coursera)                         | DNA Decoded                                                         |
| 2 | Nanyang Technological University, Singapore (Coursera) | Introduction to Forensic Science                                    |
| 3 | Technical University of Denmark (DTU) (Coursera)       | Whole genome sequencing of bacterial genomes tools and applications |
| 4 | IsraelX (edX)                                          | Virus101x: Viruses & How to Beat Them: Cells, Immunity, Vaccines    |

## Government Funded and Intramural R&D Project and Workshops (2022-2025)

| Sr. No. | Title of the Project                                                                                                                                                                                                           | Year      | Funding agency                                                                           | Role                   |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------|------------------------|
| 1.      | 07 days FDP on NEXT-Gen Molecular Diagnostics, CRISPR-Cas and Bioinformatics: Hand-on Training for Emerging Biomedical Applications                                                                                            | 2026      | Uttarakhand Council of Biotechnology (UCB) Ministry of Agriculture, Govt. of Uttarakhand | Resource Person        |
| 2.      | Instrumentations in Molecular Biology, RDT & Bioinformatics: Learning machines & it's Applications in Industries & Research                                                                                                    | 2025      | Kanpur Institute of Technology Kanpur, Uttar Pradesh                                     | Resource Person        |
| 3.      | Importance of probiotics in maintaining human health and enhancing immunity organized a scientific seminar on Harela festival on <b>30 August 2025</b> at <b>PM Shri Government Inter College, Maldevta Raipur, Dehradun.</b>  | 2025      | Uttarakhand State Council of Science and Technology (UCOST)                              | Resource Person        |
| 4.      | 2 days National workshop cum hands on training on CRISPR Cas and Bioinformatics: Applications in Research, Therapeutic and Microbial Genetic Manipulation held on <b>30<sup>th</sup> April 2025 to 1<sup>st</sup> May 2025</b> | 2025      | Pandit Lalit Mohan Sharma Campus, Rishikesh                                              | Resource Person        |
| 5.      | 1 Day National workshop cum hands on training on “CRISPR Cas and Bioinformatics Computational Tools in Gene Editing Bridging Wet and Dry Labs” held on <b>2<sup>nd</sup> April 2025</b>                                        | 2025      | DAV College, Muzaffarnagar                                                               | Resource Person        |
| 6.      | Teaching, Training and Tourism                                                                                                                                                                                                 | 2025      | DNA Labs – CRIS (Centre for Innovative Research and Studies)                             | Co-Ordinator           |
| 7.      | Mammalian Cell Culture 2 Months Project on Cell line Preparation from Tissue                                                                                                                                                   | 2024-2025 | DNA Labs – CRIS (Centre for Innovative Research and Studies)                             | Co-Ordinator           |
| 8.      | Identification of Microorganisms Using PCR and Bioinformatics Techniques                                                                                                                                                       | 2025      | CIMS and (USERC) Uttarakhand Science Education and Research Centre                       | Resource Person        |
| 9.      | Introduction to Forensic Science Online Program for Forensic students                                                                                                                                                          | 2024      | DNA Labs – CRIS (Centre for Innovative Research and Studies)                             | Resource Person        |
| 10.     | Tools and Techniques in Genome Based Evidence and its Application in Forensic                                                                                                                                                  | 2025      | DNA Labs – CRIS (Centre for Innovative Research and Studies)                             | Scientific Session Co- |

|            |                                                                                                                               |      |                                                                                                                                    |                                  |
|------------|-------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|            | Sciences, Workshop, FDP and Hand on Training                                                                                  |      |                                                                                                                                    | <b>Ordinator</b>                 |
| <b>11.</b> | NABL Accreditations, ISO Documentations and QMS in Labs Workshop Cum Seminar                                                  | 2024 | Uttarakhand Council for State Science and Technology (UCOST).                                                                      | <b>Resource Person</b>           |
| <b>12.</b> | “Food Safety on Wheels” Mobile food testing, Awareness Programs                                                               | 2024 | Food Safety and Drug Administration, Raipur, Dehradun, Uttarakhand                                                                 | <b>Senior Research Assistant</b> |
| <b>13.</b> | Workshop cum Training Program on <b>SCIENCE ON WHEELS</b> Pilot Activities in 02 remote areas Workshops cum training programs | 2022 | Uttarakhand Science Education Research Centre (USERC), Department of Information and Science and Technology, Dehradun, Govt. of UK | <b>Senior Research Assistant</b> |

### Scientific and Societal Activities

- Organized more than 50 plus Free Health Camps and Health Awareness campaigns in various locations of Uttarakhand and nearby areas.
- Organized Blood Donation Camps in different localities.

### Subject Expert

- Subject advisor for Ph. D Scholar “Mr. Ashish Soni” from Department of Microbiology, NIIMS University, Jaipur, Rajasthan (2020-2025)
- Subject advisor for Ph.D. Scholar “Ms. Garima” from Desh Bhagat University, Punjab (2022-2025)
- Subject advisor for Ph.D. Scholar “Mr. Akhlaq” from Glocal University, U.P
- Subject advisor for Ph. D Scholar “Ms. Poonam Chaudhary” Galgotias University, Noida,U.P
- Subject advisor for Ph. D Scholar “Ms. Pooja Tamta” Hemwati Nandan Bahuguna Garhwal University

### Workshops/Seminars/Event Organized

#### 2026

- Resource Person for 1 Day Workshop on CRISPR -Cas, Computational Tools and Biochemical Analyzers organized by Department of Biotechnology Engineering & Food Technology, Chandigarh University, Chandigarh in collaboration with CRIS DNA LABS, Dehradun on 6<sup>th</sup> April 2026
- Resource Person for 2 Days National Conference on Intellectual Property Rights (IPR), supported by Uttarakhand Council of Science and Technology UCOST, Department of Information & Science Technology, Uttarakhand Government & Microbiologist Society India (MBSI) on 28th and 30th March 2026
- Resource Person for 06th Annual 5 Days Workshop & Conference on “New Frontiers in Applied Genomics, Molecular Diagnostics and Advanced Systems in Translational Research in Life Sciences 2026.” from 21st to 25th March, Organized at Pt.L.M.S. Campus, Sri Dev Suman Uttarakhand University in collaboration with Scientific and Technical Partner Centre for Research & Innovative Scientific Studies, CRIS DNA Labs, East Hope Town, Dehradun and IQAC Dept. Of Microbiology & Dept. Of MLT, PLMS, Sridevi Suman Uttarakhand University, Rishikesh and Seema Dental College& Hospital, Rishikesh and Microbiologist Society India.
- Resource Person for 2 Days Workshop on Forensic Toxicology at CGC, Jhunjheri, organized by CRIS DNA Labs
- Resource Person for 5 Days Workshop on Forensic Sciences at GNA University, Phagwara organized by CRIS DNA Labs
- Co-organizer for 01 Day National Hand on Workshop on Advance Molecular and Microbiology Techniques organized by CRIS DNA Labs under the aegis of MBSI at PHPC Mathura on Dated 25 January,2026

## 2025

- **National Quiz on 13 September, 2025** organized by DNA Labs-CRIS under the aegis of MBSI and UCOST.
- “Science for Society” 04 days T3 programme and 01 day free health camp organized by DNA Lab- CRIS
- Resource Person for A 5- Days’ National Level Workshop & Hands on Training Program on Learning Labs for Life: Practical Applications in Modern Health & Allied Sciences organized by Faculty of Applied & CASR, Ras Bihari Bose Subharti University in Collaboration with DNA Labs CRIS.
- 1 Month Virtual Online Program on CRISPR Cas 9, gene silencing by DNA Labs CRIS, Dehradun.

## 2024

- 03 Days National Workshop Cum Training Program on Quality Management Systems in Laboratories: NABL, ISO Accreditation Bodies, Documentation, Implementations and Its Applications, funded by **Uttarakhand State Council for Science & Technology (UCOST), Govt. of Uttarakhand, on 18<sup>th</sup>, 19<sup>th</sup> and 20<sup>th</sup> January 2024, Dehradun.**
- Organized 02 days’ workshop in Department of Microbiology, Krishna College of Science and Information Technology, Bijnor, Uttar Pradesh
- Organized 02 Days National Workshop CUM EDP at GNA, University, Phagwada, Jalandhar, Punjab.

## 2023

- Organized 02 Days National Workshop cum Conference on Novel Applications in Microbial & Applied Sciences Techniques & its Execution; (**NAMASTE**) on World Tuberculosis Day at Pt. Lalit Mohan Sharma Campus, Rishikesh, Dept. of Medical Lab Technology (Sri Dev Suman Uttarakhand University), Rishikesh.

## 2022

- Co-Ordinator, “Science Popularization Program (SPP)”, Shaping minds to Scientific Approach in association with Society of Biotechnology, Department of Molecular and Cellular Engineering Jacob Institute of Biotechnology and Bioengineering, Sam Higginbottom University of Agriculture, Technology and Science, Allahabad, UP.
- Co-Ordinator, “Science Popularization Program (SPP)”, with Department of Zoology, Hemvati Nandan Bahuguna Garhwal University (A Central university), Srinagar (Garhwal), Uttarakhand
- Co-Ordinator, “Science Popularization Program (SPP)”, “Role of Life Sciences in cellular and Modern Molecular
- Co-Ordinator, “Science Popularization Program (SPP)” at Guru Nanak Khalsa College, Yamunanagar, Department of Biotechnology, Yamunanagar, Haryana.
- Co-Ordinator, Science Popularization Program (SPP)”, with Department of Bioscience & Biotechnology, Banasthali Vidyapeeth, Rajasthan on Cellular; Modern molecular Diagnosis and the role of Life Sciences, Allied and Biomedical students: Hope and Scope for Newer Generation.

## Research & Review Publications

1. Kiriti Attri, Harvinder Kaur Sidhu, Narotam Sharma, **Ritik Dogra**, Ankita Singh, Jagjeet Singh, Ajay Singh (2024), Bioactive Phytochemical Assessment of Traditional Medicinal Plants from Jammu Division: A Scientific Investigation of Their Therapeutic Potential in Women's Reproductive Health Disorders. *Frontiers in Health Informatics*, 13(8) 7318-7327
2. Comprehensive In Vitro Phytochemical Characterization of Ayurvedic Medicinal Plants From Jammu Division, J&K, India: Elucidating Their Pharmacological Relevance In Gynaecological Disease Management. (2025). *International Journal of Environmental Sciences*, 5246-5253. <https://doi.org/10.64252/e91xcp75>
3. **Dogra**, Ankita Singh, and Narotam Sharma. "COMPARATIVE FORENSIC ANALYSIS OF MULTIPLE BIOLOGICAL SAMPLES USING VNTR PROFILING."
4. Kritika Das, Rahul KR Bhagat, Dr. Narotam Sharma, Dr. Ankita Singh, **Ritik Dogra**, Divya Rawat. Microbial profiling of street foods in Dehradun: Analysing safety, spoilage and gastrointestinal survivability. *Int J Agric Extension Social Dev* 2025;8(9):658-664. DOI: 10.33545/26180723.2025.v8.i9j.2476
5. EMERGING BIOMARKERS FOR THE DIFFERENTIAL DIAGNOSIS OF MYCOBACTERIUM TUBERCULOSIS

- AND NONTUBERCULOUS MYCOBACTERIA. *Journal of Population Therapeutics and Clinical Pharmacology*, 32(6), 883-891. <https://doi.org/10.53555/cj9mtc89>
6. The global burden of Hepatitis A: Challenges, and future strategies. *Int J Appl Res* 2025;11(5):279-285. DOI: 10.22271/allresearch.2025.v11.i5d.12572
  7. MYCOBACTERIUM TUBERCULOSIS AND DNA FINGERPRINTING: A VITAL TOOL FOR TRACKING OUTBREAKS. (2023). *Journal of Population Therapeutics and Clinical Pharmacology*, 30(11), 509-520. <https://doi.org/10.53555/jptcp.v30i11.4539>
  8. Optimizing VNTR-Based Forensic Identification: Comparative Profiling of Blood, Saliva and Hair Samples [doi.org/10.58924/rjmp.v4.iss5.p1](https://doi.org/10.58924/rjmp.v4.iss5.p1)
  9. Sahil, Sachin, Arun Singha, Shivam, Ashutosh Kainthola, Jitesh Kumar, Ashna, Jagjeet Singh, **Ritik Dogra**, Ankita Singh and Narotam Sharma (2025); COMPARATIVE FORENSIC ANALYSIS OF MULTIPLE BIOLOGICAL SAMPLES USING VNTR PROFILING *Int. J. of Adv. Res.* (Sep). 77-91] (ISSN 2320-5407). [www.journalijar.com](http://www.journalijar.com)
  10. Kumari Poonam, Dr. Ananta Shrivastava, **Ritik Dogra**, Dr. Narotam Sharma, Dr. Ankita Singh. (2025). Advances In Functional Edible Probiotics Formulations: Microencapsulation And Synbiotic Strategies For Gut Health Modulation. *Journal of Applied Bioanalysis*, 11(9S), 499-509. <https://doi.org/10.53555/jab.v11si9.1271>.
  11. Association of VDR Gene Polymorphisms (FokI, BsmI and TaqI) With Type 2 Diabetes Mellitus: A Molecular and Biochemical Correlation Study in Capital City of Uttarakhand. Print ISSN: 2977-0122 DOI: 10.69605/ijlbpr\_14.12.2025.216

## Declaration

I hereby declare that all the above information is true to best of my knowledge.

**(Ritik Dogra)**