

Kumaun University, Nainital
Curriculum Vitae

Name : Dr. Netra Pal Sharma

Designation : Assistant Professor (Guest)

Department : Department of Zoology

Contact Information

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ORCID ID : <http://orcid.org/0000-0003-3997-0453>

Scopus ID : Scopus preview - netrapalsharma's dashboard

Vidwan ID : 507613

Publons ID (Web of Science Researcher ID): AAZ-6289-2021

ResearchGate ID: <https://www.researchgate.net/profile/Netrapal-Sharma>

Google Scholar ID: <https://scholar.google.com/citations?user=tJIYnwsAAAAJ&hl=en>



Educational Qualification

Degree	University	Subjects	Year
National Post Doctoral Fellow	Department of Zoology, D.S.B. Campus, Kumaun University, Nainital	Biotechnology	2019
Doctor of Philosophy (Ph. D.)	Uttarakhand Technical University, Dehradun	Biotechnology	2016
Master of Sciences (M.Sc.)	J.R.N. Rajasthan Vidyapeeth University, Udaipur (Rajasthan)	Biotechnology	2005
Bachelor of Science (B.Sc.)	M. J. P. Rohilkhand University (Bareilly)	Zoology, Botany, Chemistry	2003

Work Experience -

Position	Department	University/Organization	Duration	Year
Assistant Professor (Guest Faculty)	Department of Zoology	Kumaun University, Nainital	11/11/2020-till date (05/04/2024)	3 years 4 months 25 days
Research Scientist	Viral Research and Diagnostic Laboratory,	Government Medical College, Haldwani, Uttarakhand	26/09/2020 to 10/11/2020	0 years, 1 months, 14 days
Project Fellow	Department of Zoology	Kumaun University, Nainital	01/04/2019 to 25/09/2020	1 year, 5 months, 24 days

National Post-Doctoral Fellow	Department of Zoology	Kumaun University, Nainital	01/04/2017 to 31/03/2019	2 years
JRF	Department of Zoology	Kumaun University, Nainital	25/07/2016 to 31/03/2017	0 years, 8 months, 4 days
Research Associate	Division of Surgery	IVRI, Bareilly	27/08/2013 to 24/02/2015	1 year, 5 months, 29days
Senior Research Fellow	MBGE, CBSH, Pantnagar	G.B.P.U.A & T, Pantnagar University, Uttarakhand	10/05/2012 to 26/08/2013	1 year, 3 months, 16days
Senior Research Fellow	MBGE, CBSH, Pantnagar	G.B.P.U.A & T, Pantnagar University, Uttarakhand	27/06/2009 to 31/03/2012	2years, 9 months, 4days
Project Assistant	MBGE, CBSH, Pantnagar	G.B.P.U.A & T, Pantnagar University, Uttarakhand	27/06/2007 to 26/06/2009	2 years

Administrative Responsibilities -

Position	Nature of responsibility	University/Organization	Year
In-charge	Instrumentation, Computer Room, and PG departmental Library	Department of Zoology, D.S.B. Campus, Kumaun University, Nainital-263002, Uttarakhand, India	11/11/2020-till date
Member of the Admission Committee	Admission of B.Sc.-III Sem students	Department of Zoology, D.S.B. Campus, Kumaun University, Nainital-263002, Uttarakhand, India	2022-2023
External examiner/evaluator	B.Sc. Zoology	Kumaun University	2022-23
Paper setter	Professional Courses: B. Sc. Biotechnology-1 st and 3 rd Semester	Chaudhary Charan Singh University, Meerut, Uttar Pradesh	2023
Assistant Exam Superintendent	Exam conduct: (Order no.: पत्रांक: निदेशक/2023/65, dated 06/07/2023)	D.S.B. Campus, Kumaun University, Nainital-263002, Uttarakhand, India	2023
Member of the Admission Committee	Admission of B.Sc.-III Sem students	Department of Zoology, D.S.B. Campus, Kumaun University, Nainital-263002, Uttarakhand, India	2023-2024
Assistant Exam Superintendent	Exam conduct: (Order no.: पत्रांक: निदेशक/2023/181, dated 17/11/2023)	D.S.B. Campus, Kumaun University, Nainital-263002, Uttarakhand, India	2023

Research Interests

(List your research interests and areas of expertise in 1-3 lines)

My research interests lie in Molecular Biology, Biotechnology (Animal and Plant), Pharmaceutical Biotechnology, and Biochemistry.

Publications (start from recent publications)

a) Research Papers -

Authors name	Title of the paper	Journal, vol, page no	Year
Seeta Dewali, Deepak Kumar Arya, Anshika Tripathi, Azra Naz, Bhawana Fartyal, Jyoti Garjola, Kajal Bora, Kiran Arya, Mokshi Sharma, Palak Narang, Renu Gahtori, Rimpay Sharma, Vishakha Arya, Deepak Chandra Melkani, Satpal Singh Bisht and Netra Pal Sharma*	Early detection of mastitis using genomic and proteomic approaches in milchig animals to ensure milk quality.	Journal For Basic Sciences, 24 (1); 386-404.	2024
Seeta Dewali, Netrapal Sharma , Rashi Miglani, Nagma Parveen, Gaurav Rawat, Deepak Chandra Melkani, Neha Kathayat and Satpal Singh Bisht	Comparative study of snow-fed and Spring-Fed Rivers of Kumaun Himalaya, India.	Journal of Xidian University, 17(10); 1036-1051	2023
Netrapal Sharma , Satpal Singh Bisht, Sanjay Gupta, Rohit Pant and Seeta Dewali	<i>In vitro</i> efficacy of whole-grain finger millet (<i>Eleusine coracana</i>) extract on primary rat osteoblasts	Research Journal of Biotechnology, 18(4); 74-83	2023
Mansi Arya, Shikha Bora, Deepak Melkani, Seeta Dewali, Netrapal Sharma , Satpal Singh Bisht	Badri cow milk and milk products: A nutraceutical review	High Technology Letters, 29(3); 98-106	2023
Seeta Dewali, Netrapal Sharma , Deepak Chandra Malkani, Mansi Arya, Satpal Singh Bisht	Socioeconomic status and livelihood of fishermen in and around three river systems of Kumaun Himalaya, Uttarakhand	High Technology Letters, 29(3); 33-39	2023
Rashi Miglani, Nagma Parveen, Gaurav Rawat, Netrapal Sharma , Ankit Kumar, and Satpal Singh Bisht	Effect of Imidacloprid and Chloropyrifos toxicity on earthworm <i>Amyntas alexandri</i> under Laboratory conditions	Asian Journal of Biological and Life Sciences, 11(3); 833-839	2022
Melkani DC, Miglani R, Bora S, Kumar A, Sharma N , Rana M, and Bisht SS	Global scenario of sickle cell anaemia and comparison of SCA among tribal and non-	International Journal of Biology, Pharmacy and	2022

	tribal population of Uttarakhand	Allied Sciences. 11(12): 4595-4610	
Sharma N , Bisht SS, Gupta S, Dewali S, Parveen N, Pant R.	Two-dimensional Gel Analysis of Total Seed Protein of Horse Gram (<i>Macrotyloma uniflorum</i>) for Identification of their Proteomic Diversity	Asian J Biol Life Sci.11(2): 334-9	2022
Ajay Kumar, Shikha Bora, Netrapal Sharma and Satpal Singh Bisht	A Study on the Influences of Rainfall on Agriculture Using the IDF Curve	International Journal for Research in Applied Sciences and Biotechnology. 9(3); 188-192	2022
Netrapal Sharma. , et al.	Genetics and Therapies of Mastitis in Common Milch Animals: A Review	Acta Scientific Veterinary Sciences 4.8: 21-31	2022
Giri Neha, Lodhi Anchal, Sapna, Sharma Netrapal and Arya Deepak Kumar	Seasonal Fluctuation of <i>Escherichia coli</i> in Nainital Lake, Uttarakhand State, India	Intern. J. Zool. Invest. 8 (1): 249-256	2022
Nagma Parveen, Rashi Miglani, Ankit Kumar, Seeta Dewali, Kulbhushan Kumar, Netrapal Sharma and Satpal Singh Bisht	Honey bee pathogenesis posing threat to its global population: a short review	Proceedings of the Indian National Science Academy. DOI: 10.1007/s43538-022-00062-9	2022
Deepak Chandra Melkani, Netrapal Sharma , Kulbhushan Kumar and Satpal Singh Bisht	Blood group typing of students from various Social Groups of Kumaun region, Uttarakhand, India	National Journal of Laboratory Medicine, 11(1): PO23-PO25	2022
Ajay Kumar, Netrapal Sharma and Satpal Singh Bisht	Effect on Nutraceutical Component and genotypes Characteristics of Selected Pigmented Rice Landraces of Kumaun Himalayan range of India	Turkish Journal of Physiotherapy and Rehabilitation. 32(3): 30696 – 30715	2021
Ajay Kumar, Netrapal Sharma , Kulbhushan Kumar, Ankit Kumar, Shikha Bora and Satpal Singh Bisht	Estimation of amino acids in pigmented rice landraces from Kumaun region of Uttarakhand	Bull. Env. Pharmacol. Life Sci., Vol 10 [12] October 2021: 69-79	2021
Parveen Nagma, Miglani Rashi, Sharma Netrapal and Bisht Satpal Singh	Socio-economic analysis of traditional and modern beekeeping in Western Himalayan Region Uttarakhand, India	Intern. J. Zool. Invest. 7 (2): 713-722	2021
Melkani Deepak Chandra, Bora Shikha, Sharma Netrapal and Bisht Satpal Singh	Status of anemia and haemoglobinopathies in	Intern. J. Zool. Invest. 7 (2): 707-712	2021

	Kumaun Region, Uttarakhand, India		
Rashi Miglani, Nagma Parveen, Ankit Kumar, Netrapal Sharma and Satpal Singh Bisht	Insecticide Toxicity: Consumption, Assessment Methodologies and Safety Issues in India	International Journal of Zoological Investigations Vol. 7, No. 2, 621-628	2021
D C Melkani, N Sharma , A K Panda, K Kumar and S S Bisht	Study of Proteomic Diversity for Sickle Cell Disease in Tribe and Non-Tribe Population of Kumaun Region of Uttarakhand	Bull. Env. Pharmacol. Life Sci., Vol 9[12] November 2020: 07-13	2020
D C Melkani, N Sharma , A K Panda and S S Bisht	Baseline Survey and Hbb Gene Amplification for Screening of Sickle Cell Disease among Tribal and Non-Tribal Population of Kumaun Region of Uttarakhand	Bull. Env. Pharmacol. Life Sci., Vol 9[12] November 2020: 14-22	2020
K. Kumar, S. S. Bisht, N. Sharma , A. Kumar, S. Bora, N. Pandey and N. Parveen	Studies on Crop Depredation Caused by Wild Animals in Some Villages of Chenab Valley Jammu and Kashmir India	Bull. Env. Pharmacol. Life Sci., Vol 8 [Suppl. 1] November 2019: S46-S50	2019
Netrapal Sharma , Satpal Singh Bisht, Sanjay Gupta, Mahendra Rana, Ajay Kumar	Nutraceutical evaluation of horse gram (<i>Macrotyloma uniflorum</i>) cultivated in high altitudes of Uttarakhand Himalaya, India	<i>Indian Journal of Pure and Applied Bioscience.</i> 7(4), 190-202	2019
Netrapal Sharma , Satpal Singh Bisht, Sanjay Gupta, Mahendra Rana, Ajay Kumar and Rajesh Pathak	<i>In-Silico</i> Study for Antiuro lithistic Activities of Compounds Extracted from Horse Gram (<i>Macrotyloma Uniflorum</i>) Collected from Uttarakhand (India) As Xanthine Dehydrogenase Inhibitor by Molecular Docking	<i>Int J Recent Sci Res.</i> 10(07); 33630-33634	2019
Kulbhushan Kumar, Satpal Singh Bisht, Netrapal Sharma , Ajay Kumar and Nagma Parveen	Quantitative evaluation of crop damage by wild animals in chenab valley of Jammu and Kashmir India	<i>Journal of emerging technologies and innovative research,</i> 6(4); 603-612	2019
Netrapal Sharma , Satpal Singh Bisht, Sanjay Gupta,	<i>Macrotyloma Uniflorum</i> : A legume having anti-	European Journal of Pharmaceutical and	2019

Ajay Kumar and Deepak Chandra Melkani	lithiatic potential of Uttarakhand	Medical Research, 6(3), 201-204	
Netrapal Sharma. , Hemlata., Kirti Goswami., Love Preet Kaur., Mukta Chauhan., Surbhi Maheshwari., Guddi Khani., Ajay Kumar., Deepak Chandra Melkani and Satpal Singh Bisht	Proteomic Analysis to Identify Possible Calcium Binding Proteins in Major Pulses Collected from Nainital District of Uttarakhand	<i>Int J Recent Sci Res.</i> , 10(01): 30613-30617	2019
Netrapal Sharma , Satpal Singh Bisht, Sanjay Gupta and Ajay Kumar	Investigation the antilithiatic potential of horse gram (<i>Macrotyloma uniflorum</i>) seeds extract on experimental kidney stones from high altitude of Uttarakhand (India)	<i>European Journal of Pharmaceutical and Medical Research</i> , 6(1); 521-526	2019
Sharma N , Singh BS, Gupta S, Kumari PA and Mahendra R	Analysis of proteomic diversity and calcium binding protein(s) in seeds of horse gram (<i>Macrotyloma uniflorum</i>) cultivars from Uttarakhand	<i>Int J Pharm Sci Res</i> , 9(8): 1000-07	2018
Alok Kumar, Jai Prakash Jaiswal, Netrapal Sharma , Supriya Gupta, Anil Kumar	Understanding the molecular basis of differential grain protein accumulation in wheat (<i>Triticum aestivum</i> L.) through expression profiling of transcription factors related to seed nutrients storage	<i>3 Biotech</i> , 8(2):112-116	2018
Manzoor Ahmad Bhat, MMS Zama, Azhar Shuaib Bato, Moien Javaid, Rekha Pathak, Suvarna A, Mozammel Hoque, Rajendra Singh, Netrapal Sharma and Rashmi	Preparation and Functional Characterization of Decellularized Bovine Tendon Scaffolds for Tendon Tissue Engineering	<i>Journal of Animal Research</i> , 5(4): 921-926	2015
Sharma N , Gupta S, Pathak R, Gupta SM, Stobdan T, Kumar A	Genetic divergence among sea buckthorn (<i>Hippophae sps. (L)</i>) using molecular marker based analysis with respect to seed protein and anti-oxidant properties.	<i>Advances in Animal and Veterinary Sciences</i> , 3(4): 211-224	2015
Pathak R, Amarpal, Aithal HP, Kinjavdekar P, Pawde AM, Rashmi, Mahan T, Sharma N , Dhama K	Bone tissue engineering: latest trends and future perspectives.	<i>Advances in Animal and Veterinary Sciences</i> , 3(4): 9-22	2015

Rekha Pathak, Amarpal, P. Tamilmahan, Kuldeep Dhama and Netrapal Sharma	Evaluation of <i>in vitro</i> Efficacy of VitaminD3 on the Osteoblast Differentiation and Mineralization Capabilities of Fetal and Adult Osteoblast of Rabbit Reflects Therapeutic Potential	<i>International Journal of Pharmacology</i> , 8(10):440-450	2014
Anil Kumar, Neelofar Mirza, Tara Charan, Netrapal Sharma and Vikram Singh Gaur	Isolation, Characterization and Immunolocalization of a Seed Dominant CaM from Finger Millet (<i>Eleusine coracana</i> L. Gartn.) for Studying Its Functional Role in Differential Accumulation of Calcium in Developing Grains	<i>Appl Biochem Biotechnol</i> , 172 (6):2955–2973	2014
Neelofar Mirza, Netrapal Sharma , Sarita Srivastava and Anil Kumar	Relationship of Physical, Biochemical and Nutritional properties with Popping quality of Finger millet (<i>Eleusine coracana</i>) genotypes differing in grain colour	<i>Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.</i> , 85(2): 507–515	2014
Pathak, R., Amparal, MMS Zama, P Kinjavdekar, AM Pawde, HP Aithal, AK Tiwari, NP Kurade and N Sharma	Isolation, culture and characterization of Foetal Tendon Stem Cells (FTSCs) in Rabbit	<i>Res. Opin. Anim. Vet. Sci.</i> , 3(12), 438-442	2013
Netrapal Sharma , Sanjay Gupta, Sadhna Singh, Sanjay Mohan Gupta and Anil Kumar	Use of Molecular and Protein Based Markers for Accessing Genetic Diversity Among <i>Hippophae salicifolia</i> D. Don Genotypes of Uttarakhand	<i>Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.</i> , 84(1): 47–54	2013
Anil Kumar, Netrapal Sharma , Preety Panwar and Arun K. Gupta	Use of SSR, RAPD markers and protein profiles based analysis to differentiate finger millet (<i>Eleusine coracana</i>) genotypes differing in their protein content	<i>Molecular Biology Reports</i> , 39(4):4949-60	2011
Preety Panwar, R.K Saini, Netrapal Sharma , Dinesh Yadav and Anil Kumar	Efficiency of RAPD, SSR and Cytochrome P450 gene based markers in accessing genetic variability amongst finger	<i>Molecular Biology Reports</i> , 37(8):4075-4082	2010

	millet (<i>Eleusine coracana</i>) accessions		
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b) Patents (start from recent publications) -

Authors name	Title of the patent	Patent no (Granted or filed)	Year
Anil Kumar, Netrapal Sharma , Atul Kumar Gupta, Manoj Kumar, Dinesh Pandey	<i>Method and kit for eluting one or more protein(s)</i>	Patent No.: 34176 (Application Number: 3496/DEL/2015)	2020

c) Books (start from recent publications) -

Authors name	Title of the book	Publisher	ISBN	Year

d) Book chapters (start from recent publications) -

Authors name	Title of the book	Publisher	ISBN	Year
Kumar, A., Kerketta, A., Dewali, S., Sharma, N. , Kumari Panda, A., Singh Bisht, S.	Tackling Hidden Hunger: Understanding Micronutrient Deficiency and Effective Mitigation Strategies	In: Ghosh, S., Kumari Panda, A., Jung, C., Singh Bisht, S. (eds) Emerging Solutions in Sustainable Food and Nutrition Security. Springer, Cham.	https://doi.org/10.1007/978-3-031-40908-0_12	2023
Santosh Kumar Behera, Seeta Dewali, Netrapal Sharma , Satpal Singh Bisht, Amrita Kumari Panda, Sanghamitra, and Sunil Kumar	Chapter: 13 “Paradigms of omics in bioinformatics for accelerating current trends and prospects of stem cell research”	in Book: Computational Biology for Stem Cell Research, edited by Dr. Pawan Kumar Raghav (Elsevier). No. of pages: 750, Paperback	ISBN: 9780443132223	2023
Seeta Dewali, Netrapal Sharma , Deepak Melkani, Mansi Arya, Neha Kathayat, Amrita Kumari Panda and Satpal Singh Bisht	Aquaculture: Contributions to Global Food Security.	In: Ghosh, S., Kumari Panda, A., Jung, C., Singh Bisht, S. (eds) Emerging Solutions in Sustainable Food and Nutrition Security. Springer, Cham	https://doi.org/10.1007/978-3-031-40908-0_6	2023

Ankit Kumar, Rashi Miglani, Mahendra Rana, Satpal Singh Bisht, Netrapal Sharma and Ajeet Singh	Chapter: 9 “Role of Traditional Practices and Ethno-Medicinal Plants for the Management of Jaundice and Hepatic Diseases”	Book: Bio-pharmacological activities of medicinal plants and bioactive compounds, Nova Science Publisher.	ISBN: 978-1-53619-959-8, Pg: 161-178	2021
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e) Conference Publications/Proceedings (start from recent publications) -

Authors name	Title of the paper	Conference Name	Year
Ritu Khatri*, Divya Joshi, Anushka Shah, Shivangi Bisht, Kadambari Bisht, Ayushi Rai, Priyanshu Bisht, Tanmay Khatwal, Deepak Kumar Arya, Seeta Dewali, Deepak Chandra Melkani, Netra Pal Sharma , H.C.S. Bisht, Satpal Singh Bisht	Pharmacogenomics studies of some medicinal plants and identification of anticancer activity on animal cells.	National Conference on Trending Biotechnological Interventions to Address & Combat Himalayan Biodiversity Challenges on March 6-8, 2024	2024
Priyanshu Singh Bisht*, Tarun Khatwal, Ayushi Rai, Divya Joshi, Anushka Shah, Shivangi Bisht, Kadambari Bisht, Ritu Khatri, Pankaj Bhatt, Deepak Kumar Arya, Seeta Dewali, Deepak Chandra Melkani, Netra Pal Sharma and Satpal Singh Bisht	Study of Common Drugs as Anti-Inflammatory Agents in Cultured Animal Cells.	National Conference on Trending Biotechnological Interventions to Address & Combat Himalayan Biodiversity Challenges on March 6-8, 2024	2024
Kadambari Bisht*, Anushka Shah, Shivangi Bisht, Priyanshu Singh Bisht, Ritu Khatri, Tarun Khatwal, Ayushi Rai, Divya Joshi, Pankaj Bhatt, Deepak Kumar Arya, Seeta Dewali, Deepak Chandra Melkani, Netra Pal Sharma and Satpal Singh Bisht	Study of antiaging properties of some pharmaceutical constituents on animal fibroblast cells.	National Conference on Trending Biotechnological Interventions to Address & Combat Himalayan Biodiversity Challenges on March 6-8, 2024	2024
Ayushi Rai*, Priyanshu Singh Bisht, Tarun Khatwal, Divya Joshi, Kadambari Bisht, Ritu Khatri, Anushka Shah, Shivangi Bisht, Deepak	Regenerative Medicine: A concept note on its function and importance.	National Conference on Trending Biotechnological Interventions to Address & Combat Himalayan	2024

Kumar Arya, Seeta Dewali, Deepak Chand Melkani, Netra Pal Sharma , H.C.S Bisht and Satpal Singh Bisht		Biodiversity Challenges on March 6-8, 2024	
Tarun Khatwal*, Priyanshu Singh Bisht, Ayushi Rai, Divya Joshi, Kadambari Bisht, Ritu Khatri, Anushka Shah, Shivangi Bisht, Deepak Kumar Arya, Seeta Dewali, Deepak Chand Melkani, Netra Pal Sharma , H.C.S Bisht and Satpal Singh Bisht	Study of <i>Tinospora cordifolia</i> extract on melanoma cell for their anticancer properties.	National Conference on Trending Biotechnological Interventions to Address & Combat Himalayan Biodiversity Challenges on March 6-8, 2024	2024
Anushka Shah*, Ritu Kahtri, Kadambari Bisht, Divya Joshi, Shivangi Bisht, Tarun Khatwal, Priyanshu Singh Bisht, Ayushi Rai, Deepak Kumar Arya, Deepak Chandra Melkani, Netra Pal Sharma , Seeta Dewali and Satpal Singh Bisht	Identification and accessing the role of novel Quinone compounds as Anti-cancer agents on cancer cells.	National Conference on Trending Biotechnological Interventions to Address & Combat Himalayan Biodiversity Challenges on March 6-8, 2024	2024
Shivangi Bisht*, Divya Joshi, Kadambari Bisht, Anushka Shah, Ayushi Rai, Priyanshu Singh Bisht, Tarun Khatwal, Ritu Khatri, Pankaj Bhatt Deepak Kumar Arya, Seeta Dewali, Deepak Chandra Melkani, Netra Pal Sharma and Satpal Singh Bisht	Study of cannabis (Hemp) plant extract on animal cells for their anti-aging properties.	National Conference on Trending Biotechnological Interventions to Address & Combat Himalayan Biodiversity Challenges on March 6-8, 2024	2024
Divya Joshi*, Anushka Shah, Ayushi Rai, Shivangi Bisht, Kadambari Bisht, Ritu Katri, Priyanshu Singh Bisht, Tarun Katwal, Pankaj Bhatt, Deepak Kumar Arya, Seeta Dewali, Deepak Chandra Melkani, Netra Pal Sharma and Satpal Singh Bisht	Hematological disorder related to milch animals and their treatment.	National Conference on Trending Biotechnological Interventions to Address & Combat Himalayan Biodiversity Challenges on March 6-8, 2024	2024
Seeta Dewali, Netrapal Sharma , Deepak Melkani and Satpal Singh Bisht	Microbial Revolution in Aquatic Animal Health: Exploring Probiotic Potential For	International Conference on Animal science and veterinary medicine, by VDGGOOD Professional	2023

	sustainable and Ecological Aquaculture management.	Association, India (Nov. 2023), DOI: 10.13140/RG.2.2.14991.76964	
Seeta Dewali, Seema Chauhan, Netrapal Sharma , Deepak Chandra Melkani and Satpal Singh Bisht	Immunomodulation and stress management by Yoga: A molecular physiological approach.	Immunomodulation and stress management by Yoga: A molecular physiological approach at: Kumaun University Nainital.	2023
Neha Kathayat, Seeta Dewali, Netrapal Sharma , Satpal Singh Bisht	Global Status of Cervical Cancer in Women's Health Management.	International Conference on Women and Health on November 2023	2023
Seeta Dewali, Netrapal Sharma , Deepak Melkani, and Satpal Singh Bisht	Microbial Revolution in Aquatic Health: Exploring Probiotic Potential of <i>Schizothorax richardsonii</i> Gut Microbiota from Kosi River, Uttarakhand	31 st International Conference entitled "Functional Foods and Bioactive Compounds: Modern and Medieval Approaches" on September 29 – October 1, 2023	2023
Seeta Dewali*, Netrapal Sharma , Deepak Chandra Melkani and Satpal Singh Bisht	Biochemical and molecular characterization of probiotic bacteria isolated from the gastrointestinal tract of <i>Schizothorax richardsonii</i> from Gaula River, Uttarakhand	3 rd international conference (IAAHAS/AB/2023/013). Pg no. 59	2023
Seeta Dewali, Netrapal Sharma and Satpal Singh Bisht	Probiotic potential of few gut-associated bacteria of Snow trout (<i>Schizothorax richardsonii</i>) collected from Saryu River of Uttarakhand	International conference on World environment summit 2022 By Environment and Social Development Association (ESDA India) at The University of Delhi held during October 2022	2022
Seeta Dewali, Netrapal Sharma and Satpal Singh Bisht	Isolation of total buffer soluble protein from frozen fish snow-trout (<i>Schizothorax richardsonii</i>) from the highland rivers of Uttarakhand, India	International conference on humanities, science and technology at Sant Gariha Guru University Sarguja Ambikapur (C.G.) held in September 2022	2022
Ajay Kumar, Netrapal Sharma and Satpal Singh Bisht	A systematic review on a novel approach of food fortification of	2 nd Virtual International Conference on Naturopathy,	2021

	red rice in diabetic mellitus	Nanotechnology, Nutraceuticals, and Immunotherapy in Cancer Research - 2021 (ICN3IC-21)	
Nagma Parveen, Netrapal Sharma and Satpal Singh Bisht	Investigations on bacteria associated multifarious pathogenesis in apiaries of Kumaun, Uttarakhand	14 th Uttarakhand State Science and Technology Congress 2019-20 held on 27-29 Feb 2020, Page no.239	2020
Rashi Miglani, Netrapal Sharma and Satpal Singh Bisht	Histological investigations on insecticide toxicity on earthworm <i>Amyntas alexandri</i> under laboratory conditions	14 th Uttarakhand State Science and Technology Congress 2019-20 held on 27-29 Feb 2020, Page no.245	2020
Netrapal Sharma , Satpal Singh Bisht, Ankit kumar, Ajay Kumar and Mahendra Rana	<i>In vitro</i> efficacy of whole-grain flour extracts of finger millet (<i>Eleusine coracana</i>) collected from Uttarakhand on rat osteoblasts for enhancement of bone mineralization	14 th Uttarakhand State Science and Technology Congress 2019-20 held on 27-29 Feb 2020, Page no.149	2020
Deepak Chandra Melkani, Satpal Singh Bisht, Netrapal Sharma , Kulbhushan Kumar, Amrita Kumari Panda, Rajendra Dobhal, Ashutosh Mishra and B.P. Purohit	Amplification of homo sapiens truncated hemoglobin beta chain (<i>HBB</i>) gene for screening of sickle cell trait (SCT) and sickle cell disease (SCD) in Kumaun of Uttarakhand	14 th Uttarakhand State Science and Technology Congress 2019-20 held on 27-29 Feb 2020, Page no.161	2020
Deepak Chandra Melkani, Satpal Singh Bisht, Netrapal Sharma , Kulbhushan Kumar, Amrita Kumari Panda, Rajendra Dobhal, Ashutosh Mishra and B.P. Purohit	Study of proteomic diversity for sickle cell disease in tribe and non-tribe population of Kumaun region of Uttarakhand	14 th Uttarakhand State Science and Technology Congress 2019-20 held on 27-29 Feb 2020, Page no. 236	2020
Satpal Singh Bisht, Rajendra Dobhal, Ajay Kumar, Netrapal Sharma , Pallavi Kathil, Ashutosh Mishra and B. P. Purohit	Seasonal survey of wild and domesticated fodder species for their nutritional value across Kumaun and Garhwal region of Uttarakhand	14 th Uttarakhand State Science and Technology Congress 2019-20 held on 27-29 Feb 2020, Page no.65	2020

<p>Vaishali Panday, Diksha Gangwar, Gaurav Rawat, Rajeshwari Tripathi, Sheetal Paliwal, Netrapal Sharma and Satpal Singh Bisht</p>	<p>Microbial diversity in Kshipra River of Nainital</p>	<p>2nd International Conference on Energy, Functional Materials and Nanao-technology & Sustainable Environmental Management-2019 (ICEFN & SEM-2019), dated 24-26 May 2019 Organized by Department of Chemistry, Kumaun University, Nainital-263002, page no. 156.</p>	<p>2019</p>
<p>Sheetal Paliwal, Diksha Gangwar, Gaurav Rawat, Rajeshwari Tripathi, Vaishali Panday, Netrapal Sharma and Satpal Singh Bisht</p>	<p>Appraisalment of bacterial diversity in the Gaula river, Haldwani, Nainital District</p>	<p>2nd International Conference on Energy, Functional Materials and Nanao-technology & Sustainable Environmental Management-2019 (ICEFN & SEM-2019), dated 24-26 May 2019 Organized by Department of Chemistry, Kumaun University, Nainital-263002, page no.154</p>	<p>2019</p>
<p>Gaurav Rawat, Diksha Gangwar, Rajeshwari Tripathi, Sheetal Paliwal, Vaishali Panday, Netrapal Sharma and Satpal Singh Bisht</p>	<p>Identification and characterization of microbial contaminants and their diversity in the lakes of Nainital.</p>	<p>2nd International Conference on Energy, Functional Materials and Nanao-technology & Sustainable Environmental Management-2019 (ICEFN & SEM-2019), dated 24-26 May 2019 Organized by Department of Chemistry, Kumaun University, Nainital-263002, page no. 147</p>	<p>2019</p>
<p>Deksha Gangwar, Gaurav Rawat, Sheetal Paliwal, Rajeshwari Tripathi, Vaishali Panday, Netrapal Sharma and Satpal Singh Bisht</p>	<p>Comparative study of bacterial proteins in Sattal and Garudtal Lake of Nainital District</p>	<p>2nd International Conference on Energy, Functional Materials and Nanao-technology & Sustainable Environmental Management-2019 (ICEFN & SEM-2019), dated 24-26 May 2019 Organized by Department of Chemistry, Kumaun</p>	<p>2019</p>

		University, Nainital-263002, page no.145	
Zeenat, Vandana Tamta, Ganga Bohra, Jyotika, Manshi Arya, Netrapal Sharma and Satpal Singh Bisht	Comparative analysis of animal fat and protein collected from Badri and Sahiwal cow of Nainital district	2 nd International Conference on Energy, Functional Materials and Nanao-technology & Sustainable Environmental Management-2019 (ICEFN & SEM-2019), on dated 24-26 May 2019 Organized by Department of Chemistry, Kumaun University, Nainital-263002, page no. 131.	2019
Vandana Tamta, Zeenat, Ganga Bohra, Jyotika, Manshi Arya, Netrapal Sharma and Satpal Singh Bisht	Comparative study of Goat and Cow milk and their medicinal value.	2 nd International Conference on Energy, Functional Materials and Nanao-technology & Sustainable Environmental Management-2019 (ICEFN & SEM-2019), dated 24-26 May 2019 Organized by Department of Chemistry, Kumaun University, Nainital-263002, page no. 129	2019
Rejeshwari Tripathi, Diksha Gangwar, Gaurav Rawat, Sheetal Paliwal, Vaishali Panday, Netrapal Sharma and Satpal Singh Bisht	Comparative study of microbial diversity of Nainital and Khurpatal lake.	2 nd International Conference on Energy, Functional Materials and Nanao-technology & Sustainable Environmental Management-2019 (ICEFN & SEM-2019), on dated 24-26 May 2019 Organized by Department of Chemistry, Kumaun University, Nainital-263002, page no. 121	2019
Neelaxi Panday, Mahendra Rana, Netrapal Sharma and Satpal Singh Bisht	Phytochemistry and antibiotic potential of few wild edible fruits of family <i>Rosaces</i> .	2 nd International Conference on Energy, Functional Materials and Nanao-technology & Sustainable Environmental Management-2019 (ICEFN & SEM-2019), dated 24-26 May 2019	2019

		Organized by Department of Chemistry, Kumaun University, Nainital-263002, page no.112	
Netrapal Sharma* , Satpal Singh Bisht, Sanjay Gupta, Ajay Kumar, Mahendra Rana, Rajesh Kumar Pathak	“ <i>In-silico</i> Investigation on antiurolithiatic activity of horse gram (<i>Macrotyloma uniflorum</i>) seeds from the Himalayan region of Uttarakhand (India)”	2 nd International Conference on Energy, Functional Materials and Nanao-technology & Sustainable Environmental Management-2019 (ICEFN & SEM-2019), on dated 24-26 May 2019 Organized by Department of Chemistry, Kumaun University, Nainital-263002, page no. 112.	2019
Jyotika, Ganga Bohra, Manshi Arya, Vandana Tamta, Zeenat, Netrapal Sharma and Satpal Singh Bisht	Determination of milk quality indices and milk protein polymorphism in local sheep breed of Nainital	2 nd International Conference on Energy, Functional Materials and Nanao-technology & Sustainable Environmental Management-2019 (ICEFN & SEM-2019), dated 24-26 May 2019 Organized by Department of Chemistry, Kumaun University, Nainital-263002, page no. 103	2019
Ajay Kumar, Netrapal Sharma , Deepak Chandra Melkani and Satpal Singh Bisht	<i>Conservation of traditional rice varieties of Kumaun Himalaya special reference to their antidiabetic properties</i>	International Conference on “Conservation on natural resources and traditional Siddha pharmacological approaches for your future” held on 12-14 December 2018 in Kanyakumari organized by William Research Centre, Nagercoil-1	2018
Deepak Chandra Melkani, Satpal Singh Bisht and Netrapal Sharma	<i>Comprehensively analysis of sickle cell disease in the population of Kumaun region of Uttarakhand</i>	International Conference on “Conservation on natural resources and traditional Siddha pharmacological approaches for your future” held on 12-14 December 2018 in Kanyakumari organized	2018

		by William Research Centre, Nagercoil-1	
Ajay Kumar, Satpal Singh Bisht and Netrapal Sharma	Proteomic analysis of traditionally grown rice landraces from Kumaun Hills of Uttarakhand INDIA	5 th International Rice Congress, Marina Bay Sands, Singapore, On 15-17 th October 2018.	2018
Kulbhushan Kumar, Satpal Singh Bisht, Ajay Kumar, Netrapal Sharma and Fasuil Farooq	Investigation on degree of crop damage by wild animals in Chenab valley, J&K.	International Conference on Science, Technology and Social Humanities (ICSTSH-2018) held on 26-28 th Feb 2018 organized by Department of Zoology, School of Life Sciences, Dr. Bhimrao Ambedkar University, Agra (India).	2018
Netrapal Sharma , Satpal Singh Bisht, Hemlata Rathore and Sanjay Gupta	Genetic Diversity among Sea Buckthorn (<i>Hippophae rhamnoides</i> (L)) USING Molecular Marker Based Analysis	National Seminar on Plants and Environment (NSSAPPE-2017) held on 27-28 March 2017 organized by the Department of Botany, DSB Campus, Kumaun University, Nainital.	2017
Rekha Pathak, Amarpal, A.K. Tiwari, P. Kinjavdekar, H.P. Aithal, A.M. Pawde and N.P. Sharma	High precision isolation of osteoblast from rabbit fetal calvarial and long bone for bone tissue engineering	pp: 179, <i>XXXVIII Annual congress of Indian society for veterinary surgery and international symposium</i> held from 15-17 October 2014 organized by the Department of Veterinary Surgery and Radiology, College of Veterinary and animal science, Bikaner, Rajasthan, India.	2014
Manzoor Ahmed Bhatt, M.M.S. Zama, Rekha Pathak, M. Hoque, Umesh Dimri, Suvarna A and Netrapal Sharma	Development of decellularized bovine tendinous xenografts for the tendon gap repair in rabbits	pp: 175, <i>XXXVIII Annual congress of Indian society for veterinary surgery and international symposium</i> held from 15-17 of October 2014 organized by the Department of Veterinary Surgery and Radiology, College of Veterinary and animal science, Bikaner, Rajasthan, India.	2014
Santhi Jeyalekshmi S.R., Sarit Kumar Patra, Rekha	Allogenic mesenchymal stem cell	pp: 169, <i>XXXVIII Annual congress of Indian society for veterinary surgery and</i>	2014

Pathak, Rashmi and Netrapal Sharma	therapy in non-union fracture defect	<i>international symposium</i> held from 15-17 of October 2014 organized by the Department of Veterinary Surgery and Radiology, College of Veterinary and animal science, Bikaner, Rajasthan, India.	
Rekha Pathak, Amarpal, P. Kinjavdekar, H.P. Aithal, A.K. Tiwari, A.M. Pawde, and Netrapal Sharma	Osteogenic differentiation capabilities of fetal and adult osteoblasts	pp: 167, <i>XXXVIII Annual congress of Indian society for veterinary surgery and international symposium</i> held from 15-17 of October 2014 organized by the Department of Veterinary Surgery and Radiology, College of Veterinary and animal science, Bikaner, Rajasthan, India	2014
Rasmi, Rekha Pathak, Amarpal, H.P. Aithal, P. Kinjavdekar, M.M.S. Zama, A.M. Pawde, A.K. Tiwari, V.K. Gupta, Medram Verma and Netrapal Sharma	Evaluation of bone tissue engineered constructs from bubaline cancellous bone matrix	pp: 167, <i>XXXVIII Annual congress of Indian society for veterinary surgery and international symposium</i> held from 15-17 of October 2014 organized by the Department of Veterinary Surgery and Radiology, College of Veterinary and animal science, Bikaner, Rajasthan, India.	2014
Anuj Sharma, M. Hoque, Rekha Pathak, M.M.S. Zama, Vineet Kumar, A. C. Saxena and N. Sharma	Evaluation of allogeneic fetal tendon stem cells (AFTSC) for tendon healing in rabbits	pp: 161, <i>XXXVIII Annual congress of Indian society for veterinary surgery and international symposium</i> held from 15-17 of October 2014 the Department of Veterinary Surgery and Radiology, College of Veterinary and animal science, Bikaner, Rajasthan, India	2014
Preety Panwar, Netrapal Sharma , Vijay Kumar Yadav and Anil Kumar	Genetic Variability and Association of RAPD and SSR Markers with Calcium and Protein Content in Finger Millet (<i>Eleusine</i>	Department of MBGE, CBSH, Pantnagar. In 4 th Uttarakhand State Science and Technology Congress	2009

	<i>coracana</i> L. Gaertn.) Genotypes of Uttarakhand		
Preety Panwar, Ramesh Kumar Saini, Dinesh Yadav, Netrapal Sharma and Anil Kumar	Genetic diversity and relationship among finger millets (<i>Eleusine coracana</i>) genotypes/ accessions using random amplified polymorphic DNA and rapidly evolving sequences of cytochrome P450 based analysis	International Conference on Current Trends in Biotechnology & Implications in Agriculture, organized by the Sardar Vallabh Bhai Patel University of Agriculture and Technology & Society for recent developments in agriculture, Meerut, 19th - 21st Feb.2009 pp.106.	2009
Manoj Nath, Netrapal Sharma , V. K. Singh, Dinesh Yadav and Anil Kumar	Molecular cloning of allelic variants of calmodulin-like protein from finger millet genotype differing in grain colour, protein and calcium content	International Conference on Current Trends in Biotechnology & Implications in Agriculture, organized by Sardar Vallabh Bhai Patel University of Agriculture and Technology & Society for recent developments in agriculture, Meerut, 19 th - 21 st Feb.2009 pp.101-102.	2009

Projects -

Title of the project	Funding Agency	Amount (Rs)	Year
“Proteomic approaches for identification of Calcium Binding Protein(s) in seeds of horse gram (<i>Macrotyloma uniflorum</i>) for their anti-lithiasis potential”	Science Engineering and Research Board, - DST Government of India. India (DST No: PDF/2016/001883/LS)	19,60,000/-	2017 to 2019

Teaching details -

Name of the course/paper	Department	University	Year
PG (M.Sc.):			
ZOO /IV/CC/01B (Animal Biotechnology (Animal cell Culture))	Department of Zoology	Kumaun University, Nainital	2020 to till date
ZOO /IV/EC/B01 (Animal Biotechnology (Transgenics, cloning and IPR))	Department of Zoology	Kumaun University, Nainital	2020 to till date

Paper V – Molecular Biology	Department of Zoology	Kumaun University, Nainital	2020 to till date
Paper – I Concepts in Cell Biology and Genetic	Department of Zoology	Kumaun University, Nainital	2020 to till date
Paper – IV Biotechnology	Department of Zoology	Kumaun University, Nainital	2020 to till date
Paper – V Bio-Instrumentation, Biostatistics and Computational Biology	Department of Zoology	Kumaun University, Nainital	2020 to till date
UG (B.Sc.):			
Paper-I: Microbiology, Biological Techniques Biostatistics and Bioinformatics	Department of Zoology	Kumaun University, Nainital	2020 to till date
Paper – II: Animal Physiology, Biochemistry, Histology and Toxicology	Department of Zoology	Kumaun University, Nainital	2020 to till date

Professional Memberships -

Organization	Position	Year

Honours and Awards -

Award	Awarding Organization	Year
Honor as a resource person or Expert of the session (Programme 3: Entrepreneurship Development Programme and Start up)	National Conference on Trending Biotechnological Interventions to Address & Combat Himalayan Biodiversity Challenges on March 6-8, 2024 Organized by “Uttarakhand Council for Biotechnology” In Co-ordination with Society for Plant Research (VEGETOS) & Graphic Era Hill University, Dehradun & Directorate of Coldwater Fisheries Research, Bhimtal, Venue: Uttarakhand Council for Biotechnology, Regional Center, Patwadangar, Nainital	2024
Honor as a resource person or Expert of the session (Programme 1: Advances, Opportunities and Challenges in Plant and Agricultural science)	National Conference on Trending Biotechnological Interventions to Address & Combat Himalayan Biodiversity Challenges on March 6-8, 2024 Organized by “Uttarakhand Council for Biotechnology” In Co-ordination with Society for Plant Research (VEGETOS) & Graphic Era Hill University, Dehradun & Directorate of Coldwater Fisheries Research, Bhimtal, Venue: Uttarakhand Council for Biotechnology, Regional Center, Patwadangar, Nainital	2024
Honor as a resource person or Expert of the techniques	two days of hands-on training in “ <i>Advance in immunobiotechnological techniques in cancer diagnosis</i> ”, at Uttarakhand Council for Biotechnology, Haldi,	2020

	Pantnagar, U.S. Nagar, Uttarakhand dated 17-18 January 2020.	
First award in the conference	National Seminar On “Research in Environment and Biosciences: Current Scenario and Future Prospective” 22 th and 23 th June 2018 (REB-2018), organized by the Department of Zoology, D.A.V. College, Dehradun, Uttarakhand.	2018
National Post Doctoral Fellow	Department of Zoology, D.S.B. Campus Kumaun University, Nainital, funded by Science Engineering Research Board-Department of Science and Technology Government of India (DST No: PDF/2016/001883/LS) from 01 April 2017	2017
First award in the conference	National Conference On “Bio-degradation of Wildlife, Environment and Biodiversity” 19 th & 20 th March 2017(B-WEB-2017), organized by GANDHI FAIZ-E-AAM COLLEGE, Shahjahanpur, Uttar Pradesh.	2017
Honor as Rapporteur of the session	7 th International Conference of Sea buckthorn association on Sea buckthorn Emerging Technologies for health protection and environmental conservation, 24 th of November 2015	2015

Conference Presentations -

Title of presentation	Conference Name	Name of the institution	Year
Horse gram (<i>Macrotyloma uniflorum</i>): A nutraceutical assessment from the Uttarakhand Himalaya, India.	India International Science Festival 2022 for the event Young Scientists Conference and Registration ID: YSC10390	MANIT Bhopal	2023
Analysis of soil structure and fluorescence in soil macrofauna special reference to earthworms from a less known area of Kumaun Himalaya Uttarakhand	14 th Uttarakhand State Science and Technology Congress Page no. 249.	Dehradun	2020
Identification of proteomic diversity of Cow milk collected from Nainital district of Uttarakhand	2 nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environmental Management-2019 (ICEFN & SEM-2019)	Department of Chemistry, Kumaun University, Nainital-263002, page no. 243	2019
Estimation of fats, protein content in milk of Khundi Breed (Buffalo) of Kumaun Region Uttarakhand India.	2 nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environmental	Department of Chemistry, Kumaun University, Nainital-263002, page no. 190	2019

	Management-2019 (ICEFN & SEM-2019)		
Comparative study of sickle cell disease in tribe and non-tribe families of Kumaun region	2 nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environmental Management-2019 (ICEFN & SEM-2019)	Department of Chemistry, Kumaun University, Nainital-263002, page no. 179	2019
Proteomic studies for identification of diversity in millets collected from the high elevation of Kumaun region of Uttarakhand	2 nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environmental Management-2019 (ICEFN & SEM-2019)	Department of Chemistry, Kumaun University, Nainital-263002, page no. 172	2019
Evaluation of total soluble sugar and Zinc in different native rice varieties of Kumaun Uttarakhand	2 nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environmental Management-2019 (ICEFN & SEM-2019)	Department of Chemistry, Kumaun University, Nainital-263002, page no. 170.	2019
Baseline survey of sickle cell disease in tribe and non-tribe population of Kumaun region of Uttarakhand.	13 th Uttarakhand State Science Congress 2018-19 held on 26-28 Feb 2019, Page no.266	Dehradun	2019
Comparative Analysis of Small Millets from Highlands at Kumaun Utilizing OMIC Technologies	National seminar on “Current scenario of Pharmacy education in India: Challenges and Responsibilities	Sagar Institute of Technology and Management, Department of Pharmacy, Barabanki, U.P.	2019
Base line survey and screening of leukemia in Kumaun region of Uttarakhand using foldscope	International Conference on “Conservation on natural resources and traditional Siddha pharmacological approaches for your future”	Kanyakumari organized by William Research Centre, Nagercoil-1.	2018
Analysis of Anti-diabetic compound (Syringic acid hexoside) in horse gram (<i>Macrotyloma uniflorum</i>) cultivated in high altitudes of Uttarakhand Himalaya	1 st National Biomedical Research Competition on the 87 th birth anniversary of Dr. A.P.J. Abdul Kalam	AIIMS, Rishikesh.	2018
<i>In-vitro</i> anti-lithiasis effect on calcium oxalate crystal of horse gram (<i>Macrotyloma uniflorum</i>) aqueous extract from high elevation cultivars	International Biodiversity Congress (IBC 2018) 570	Forest Research Institute, Dehradun, India. 4-6 October 2018 (p.570).	2018

of Kumaun region (Uttarakhand)			
Nutraceutical assessment of horse gram (<i>Macrotyloma uniflorum</i>) collected from the high elevation of Kumaun (Uttarakhand)	National Seminar On “Research in Environment and Biosciences: Current Scenario and Future Prospective” 22 nd and 23 rd June 2018 (REB-2018)	Department of Zoology, D.A.V. College, Dehradun, Uttarakhand (Page no. 60).	2018
Collagen sheet and mesh preparation from decellularized bovine tendon for skin grafting	National Conference On “Bio-degradation of Wildlife, Environment and Biodiversity	GANDHI FAIZ-E-AAM COLLEGE, Shahjahanpur, Uttar Pradesh	2018
Proving existence and identification of calcium-binding protein(s) in finger millet using different biochemical approaches	International Conference on Plant Biotechnology for Food Security: New Frontiers February	DU, New Delhi, India.	2012
Expression analysis of dof1 gene and genes involved in nitrogen uptake and assimilation under different nitrate inputs in finger millet genotypes differing grain protein contents	International Conference on Plant Biotechnology for Food Security: New Frontiers February	DU, New Delhi, India.	2012
Variations in the physical, nutritional and biochemical quality of finger millet genotypes of different grain colors	National Seminar on Nutritional Strategies for Improving Quality of Life	Department of Foods & Nutrition, College of Home Science, GB Pant University of Ag &Tech, Pantnagar-263145, Uttarakhand, India	2009

NCBI Gene submitted:

Nath, M., **Sharma, N.**, Panwar, P. and Kumar, A. *Eleusine coracana* cultivar PRM-1 calmodulin (CaM) gene, partial cds. GenBank: GQ926851.1

Nath, M., **Sharma, N.**, Panwar, P. and Kumar, A. *Eleusine coracana* cultivar PRM-701 calmodulin (CaM) gene, partial cds. GenBank: GQ926852.1

Nath, M., **Sharma, N.**, Panwar, P. and Kumar, A. *Eleusine coracana* cultivar PRM-801 calmodulin (CaM) gene, partial cds. GenBank: GQ926853.1

Nath, M., **Sharma, N.**, Panwar, P. and Kumar, A. *Oryza sativa* cultivar Saathi calmodulin-like (CaM) gene, partial sequence. GenBank: GQ926854.1

Nath, M., **Sharma, N.**, Panwar, P. and Kumar, A. *Zea mays* cultivar DGPMC-4 calmodulin (CaM) gene, partial cds. GenBank: GQ926855.1

Nath, M., **Sharma, N.**, Panwar, P. and Kumar, A. *Avena sativa* cultivar UP0212 calmodulin (CaM) gene, partial cds. GenBank: GQ926856.1

Nath, M., **Sharma, N.**, Panwar, P. and Kumar, A. *Hordeum vulgare* cultivar DOLMA calmodulin (CaM) gene, partial cds. GenBank: GQ926857.1

Nath, M., **Sharma, N.**, Panwar, P. and Kumar, A. *Sorghum bicolor* cultivar Pant Chari 5 calmodulin-like (CaM) gene, partial sequence. GenBank: GQ926858.1

Nath, M., **Sharma, N.**, Panwar, P. and Kumar, A. *Panicum antidotale* calmodulin (CaM) gene, partial cds. GenBank: GQ926859.1

Nath, M., **Sharma, N.**, Panwar, P. and Kumar, A. *Paspalum scrobiculatum* calmodulin-like (CaM) gene, partial sequence. GenBank: GQ926860.1

Nath, M., **Sharma, N.**, Panwar, P. and Kumar, A. *Panicum miliaceum* cultivar 405 calmodulin (CaM) gene, partial cds. GenBank: GQ926861.1

Nath, M., **Sharma, N.**, Panwar, P. and Kumar, A. *Echinochloa frumentacea* cultivar PRB-401 calmodulin (CaM) gene, partial cds. GenBank: GQ926862.1

Nath, M., **Sharma, N.**, Panwar, P. and Kumar, A. *Eleusine coracana* cultivar PRM-801 calmodulin-like (CaM) gene, partial sequence. GenBank: GQ926863.1

Nath, M., Panwar, P., **Sharma, N.** and Kumar, A. *Oryza sativa* Indica Group calmodulin (CaM) gene, partial sequence. GenBank: HM161874.1

Kanwal, P., Gaur, V.S., Gupta, A., **Sharma, N.** and Kumar, A. *Eleusine coracana* Cab mRNA for chlorophyll a/b-binding protein, partial cds. GenBank: AB646774.1

Kanwal, P., Gaur, V.S., Gupta, A., **Sharma, N.** and Kumar, A. *Eleusine coracana* mRNA for pyruvate kinase, partial cds. GenBank: AB646349.1

Kanwal, P., Gaur, V.S., Gupta, A., **Sharma, N.** and Kumar, A. *Eleusine coracana* C4-ppdk mRNA for C4-specific pyruvate orthophosphate dikinase, partial cds. GenBank: AB646348.1

Kanwal, P., Gaur, V.S., Gupta, A., **Sharma, N.** and Kumar, A. *Eleusine coracana* ppdk mRNA for pyruvate orthophosphate dikinase, partial cds. GenBank: AB646347.1

Kanwal, P., Gaur, V.S., Gupta, A., **Sharma, N.** and Kumar, A. *Eleusine coracana* pk4 mRNA for wpk4 like protein kinase, partial cds. GenBank: AB646247.1

Kanwal, P., Gaur, V.S., Gupta, A., **Sharma, N.** and Kumar, A. *Eleusine coracana* C4-pepc mRNA for phosphoenolpyruvate carboxylase protein, partial cds. GenBank: AB646246.1

Kanwal, P., Gaur, V.S., Gupta, A., **Sharma, N.** and Kumar, A. *Eleusine coracana* PEPC mRNA for phosphoenolpyruvate carboxylase protein, partial cds. GenBank: AB646245.1

Kanwal, P., Gaur, V.S., Gupta, A., **Sharma, N.** and Kumar, A. *Eleusine coracana* rbcS mRNA for ribulose 1,5-bisphosphate carboxylase oxygenase small subunit protein, partial cds. GenBank: AB645977.1

Kanwal, P., Gaur, V.S., Gupta, A., **Sharma, N.** and Kumar, A. *Eleusine coracana* NADP-ME mRNA for NADP dependent malic enzyme like protein, partial cds. GenBank: AB645976.1

Kanwal, P., Gaur, V.S., Gupta, A., **Sharma, N.** and Kumar, A. *Eleusine coracana* SPS mRNA for sucrose phosphate synthase like protein, partial cds. GenBank: AB645975.1

Kanwal, P., Gaur, V.S., Gupta, A., **Sharma, N.** and Kumar, A. *Eleusine coracana* 14-3-3 mRNA for 14-3-3 protein, partial cds. GenBank: AB645769.1

Mirza, N., **Sharma, N.**, Goel, A., Gaur, V.S. and Kumar, A. *Eleusine coracana* clone BMDL5 retrotransposon, partial sequence. GenBank: HQ154628.1

Mirza, N., **Sharma, N.**, Goel, A., Gaur, V.S. and Kumar, A. *Eleusine coracana* clone BMDL4 retrotransposon, partial sequence. GenBank: HQ154627.1

Mirza, N., **Sharma, N.**, Goel, A., Gaur, V.S. and Kumar, A. *Eleusine coracana* clone BMDL3 retrotransposon, partial sequence. GenBank: HQ154626.1

Mirza, N., **Sharma, N.**, Goel, A., Gaur, V.S. and Kumar, A. *Eleusine coracana* clone BMDL2 retrotransposon, partial sequence. GenBank: HQ154625.1

Mirza, N., **Sharma, N.**, Goel, A., Gaur, V.S. and Kumar, A. *Eleusine coracana* clone BMDL1 retrotransposon, partial sequence. GenBank: HQ154624.1

Misra, A., Pandey, D., **Sharma, N.**, Gupta, A.K. and Kumar, A. *Brassica juncea* MAP kinase 4 mRNA, partial cds. GenBank: HQ540427.1

Miglani, R., **Sharma, N.**, Parveen, N., Kumar, A. and Bisht, S.S. *Eisenia andrei* isolate NAF-7 cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial. GenBank: ON705725.1

Miglani, R., Kumar, V., Parveen, N., Kumar, A., **Sharma, N.** and Bisht, S.S. *Amyntas morrissi* isolate Cytochrome C oxidase subunit I (COI) gene cytochrome c oxidase subunit I (COX1) gene, partial cds; mitochondrial. GenBank: ON834572.1

Parveen, N., Bisht, S.S., **Sharma, N.** and Miglani, R. *Bacillus paralicheniformis* strain L 16S ribosomal RNA gene, partial sequence. GenBank: OP700359.1

Parveen, N., Bisht, S.S., **Sharma, N.** and Miglani, R. *Bacillus tropicus* strain B 16S ribosomal RNA gene, partial sequence. GenBank: OP692767.1

Miglani, R., Bisht, S.S., Parveen, N. and **Sharma, N.** *Raoultella planticola* strain RM6 16S ribosomal RNA gene, partial sequence. GenBank: OQ152600.1

Miglani, R., Bisht, S.S., Parveen, N. and **Sharma, N.** *Arthrobacter senegalensis* strain RM4 16S ribosomal RNA gene, partial sequence. GenBank: OQ152597.1

Miglani, R., Bisht, S.S., Parveen, N. and **Sharma, N.** *Pseudomonas aeruginosa* strain RM3 16S ribosomal RNA gene, partial sequence. GenBank: OQ152595.1

Miglani, R., Bisht, S.S., Parveen, N. and **Sharma, N.** *Aeromonas caviae* strain RM2 16S ribosomal RNA gene, partial sequence. GenBank: OQ152578.1

Miglani, R., Bisht, S.S., Parveen, N. and **Sharma, N.** *Delftia lacustris* strain RM1 16S ribosomal RNA gene, partial sequence. GenBank: OQ152574.1

Dewali, S., **Sharma, N.P.** and Bisht, S.S. Uncultured Bacteroides sp. clone 1 16S ribosomal RNA gene, partial sequence. GenBank: OQ275023.1

Dewali, S., **Sharma, N.P.** and Bisht, S.S. Uncultured bacterium clone 1 16S ribosomal RNA gene, partial sequence. GenBank: OQ536062.1

Reviewer in research journals:

- 1. 3Biotech (Springer), (ISSN: 2190-5738)**
- 2. Acta Scientific (PMID: 34278247; ISSN: 2582-3183)**
- 3. Annual research & review in Biology (ISSN: 2231-4776)**
- 4. Asian Journal of Advanced Research and Reports (ISSN: 2582-3248)**
- 5. Asian Journal of Advances in Agricultural Research (ISSN: 2456-8864)**

6. **Asian Journal of Fisheries and Aquatic Research** (ISSN: 2582-3760)
7. **Asian Journal of Research in Animal and Veterinary Sciences.**
8. **Asian Journal of Research in Biochemistry** (ISSN: 2582-0516)
9. **Asian Journal of Research in Zoology** (SSN: 2582-466X).
10. **Bulletin of the National Research Centre** (ISSN: 2522-8307)
11. **Cardiology and Angiology: An International Journal** (ISSN: 2347-520X)
12. **Current Journal of Applied Science and Technology** (ISSN: 2457-1024)
13. **Current Overview on Disease and Health Research** (ISBN: 978-93-5547-575-6)
14. **Current Research in Pharmacology and Drug Discovery (Elsevier)** (ISSN: 2590-2571)
15. **Indian Journal of Plant Genetic Resources** (ISSN: 0976-1926)
16. **International Journal of Environment and Climate Change** (ISSN: 2581-8627)
17. **International Journal of Plant & Soil Science** (ISSN: 2320-7035)
18. **Journal of Advances in Medicine and Medical Research** (ISSN: 2456-8899)
19. **Journal of Experimental Agriculture International** (ISSN: 2457-0591)
20. **Journal of Pharmaceutical Research International** (ISSN: 2456-9119)
21. **Journal of Plant Biochemistry and Biotechnology (Springer),** (ISSN: 0974-1275)
22. **M.B. International Publishing House.**
23. **Plant cell biotechnology and molecular biology** (ISSN: 0972-2025)
24. **Uttar Pradesh Journal of Zoology** (ISSN: 0256-971X)

Editorial Board member in Research Journals:

1. **AMERICAN JOURNAL OF LIFE SCIENCES** (ISSN: 2328-5702)
2. **ACTA SCIENTIFIC VETERINARY SCIENCES** (ISSN: 2582-3183)
3. **Edwin Incorporation,** (ISSN: 2394-4498, ISSN: 2348-0459, ISSN: 2395-1079 ISSN-2394-3084)

Training/ Workshop:

- 1) **Patent awareness workshop**, on 10-11 September 2003, in G.B. Pant University of Agriculture & Technology, Pantnagar. Organized by Patent Office, New Delhi in Cooperation with Patent Information Centre, Pantnagar.
- 2) **Sensitization workshop** on “Biosafety issues Related to Practicing Agricultural Biotechnology” November 03-04, 2008, Organized by the Department of Molecular

Biology and Genetic Engineering, CBSH, in G.B. Pant University of Agriculture & Technology, Pantnagar.

- 3) **Workshop** on “Industry-Academia Coordination Workshop- 2008” Organized by KGCCI & UCOST in G.B. Pant University of Agriculture & Technology, Pantnagar.
- 4) **Bioinformatics Sub-DIC Training/workshop** from Aug 9-12, 2010 on “Identification and Validation of Molecular Markers for Enhancement of Agriculture Productivity” Organized by M.B.G.E. Department, CBSH, GBPUAT, Pantnagar.
- 5) **Brain Storming Session** on “Prioritization research areas on Nano-Bio-Information technology for the development of North-Western Himalayan States & Practicing Hi-tech Research” from 12-13 July 2013 Organized by M.B.G.E. Department, CBSH, GBPUAT, Pantnagar.
- 6) **National e-Workshop** on “Instrumentation Techniques in Chemical Sciences” June 25-29, 2021 participated in the five days National e-Workshop on Instrumentation Techniques in Chemical Sciences (ITCS-2021), June 25-29, 2021 organized by Veer Bahadur Singh Purvanchal University Jaunpur, 222003, Uttar Pradesh, India, Department of Chemistry Prof. Rajendra Singh (Rajju Bhaiya) Institute of Physical Sciences for Study & Research.
- 7) **National e-Workshop** on CRISPR: A GAME-CHANGING GENETIC ENGINEERING TECHNIQUE from 27 to 29 of August 2021 organized by CytoGene Research & Development, Lucknow (Reg. No.: 2108111).
- 8) **National e-Workshop** on Research & Development organized by Parul Institute of Design (PID) & Parul Institute of Fine Arts (PIFA), Parul University, Vadodara, Gujarat & Centre for Research & Training (CRT), National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu from 21-23 October 2021.
- 9) **“Entrepreneurship Development Programme in Biotechnology”** organized by UCB, Government of Uttarakhand, Haldi & Biotech Consortium India Limited (BCIL), New Delhi at GBPUA&T, Pantnagar from November 24-25, 2022.

Student Guided: (Supervisor and Co-supervisor):

M. Sc. Dissertation:

Year: 2017-18 (Co-supervisor):

Students: Hemlata, Kirti Goswami, Lovpreet Kaur, Mukta Chauhan, Surbhi Maheshwari, Guddi Khani, **Title:** “Proteomic analysis to identify possible calcium-binding proteins in major pulses collected from Nainital district of Uttarakhand.”

Year: 2018-19 (Co-supervisor):

B-1, Students: Diksha Gangwar, Gaurav Rawat, Rajeshwari Tripathi, Sheetal Paliwal, Vaishali Pandey, **Title:** “Microbial diversity of some stagnant and running water bodies of Nainital district”

B-2, Students: Ganga Bohra, Jyotika, Mansi Arya, Vandana Tamta, Zeenat, **Title:** “Investigations on Proteomic Diversity of Milk Samples Collected from Nainital district of Uttarakhand.”

Year: 2019-20 (Co-supervisor):

- 1. Student:** Diksha Thapa, **Title:** Antimicrobial and proteomic study of some medicinal plants available in and around Nainital
- 2. Student:** JYOTI JOSHI, **Title:** Proteomic, biochemical, and anti-microbial activity with respect to antioxidant activity analysis of a study of *Achyranthes bidentata* and *Thalictrum foliolosum* in and around Nainital, district of Uttarakhand
- 3. Student:** JYOTI PANT, **Title:** Proteomic, biochemical and anti-microbial activity with respect to antioxidant activity analysis of a study of *Ficus palmata* and *Curcuma aromatica* in and around Nainital district of Uttarakhand
- 4. Students:** BHAWANA MEHTA, **Title:** Antimicrobial and proteomic study of *Bacopa monnieri* and *Tinospora cordifolia* medicinal plants in and around Nainital
- 5. Student:** Rohit Pant, **Title:** Antimicrobial Activity, Antioxidant Analysis, Quantification of Various Metals and Proteomic Analysis of the leaf extracts of *Polygonatum verticillatum* & *Galinsoga parviflora*
- 6. Student:** RADHIKA AGRAWAL, **Title:** Proteomic, biochemical, and anti-microbial activity with respect to antioxidant activity analysis of a study of *Persicaria orientalis* and *Zanthoxylum armatum* in and around Nainital
- 7. Student:** Nisha Bora, **Title:** Antimicrobial and proteomic study of *urtica dioica* and *lomatium dissectum* medicinal plants in and around Nainital
- 8. Student:** Sakshi Bisht, **Title:** Antimicrobial and proteomic study of *Arisaema tortuosum* and *Amorphallus konjac* medicinal plants in and around Nainital

Year: 2020-21 (Supervisor):

Students: Palak Narang, Bhawana Fartyal, and Renu Gahtori, **Title:** Early detection of mastitis using genomic and proteomic approaches in milching animals to ensure milk quality.

M. Sc. (INSPIRE) summer mentorship: Neha Kathayat, entitled "Isolation and characterization of hydrocarbon-degrading bacteria from an automobile garage site of

Haldwani, Nainital, Uttarakhand." Duration: Six weeks (22 June to 2 August 2022)
DST/INSPIRE/02/2018/002367.

Year: 2022-23 (Supervisor):

1. **Student:** Arti, **Title:** "Evaluation of hypoglycemic property and cytotoxic effect of mulberry (*Morus alba*) roots on tenoblast of Wistar rat".
2. **Student:** Pankaj Bhatt, **Title:** "In-vitro analysis of the medicinal plant Parijat (*Nyctanthes arbortristis*) and its cytotoxic analysis using tenoblast (Wistar Rat)".

(Co-Supervisor):

1. **Student:** Ankita Gururani, **Title-** Phytochemical analysis of *Berberis aristata* and its *in-vitro* antidiabetic, cell proliferative properties using Tenoblast of Wistar Rat.
2. **Student:** Neha Kathayat, **Title-** "Phytochemical and free radical scavenging property of the plant *Tinospora cordifolia* and its effect on the growth of Wistar rat tenoblast".
3. **Student:** Saurabh Kumar Roy, **Title-** "Phytochemical screening of *Centella asiatica* and its Antidiabetic potential using dialysis membrane including its effect on cell proliferation".
4. **Student:** Gauri Mishra, **Title-** "In-vitro estimation of Anti-urolithiasis activity of Methanolic extract of *Achyranthes aspera* and its effect on primary rat tendon cells".
5. **Student:** Vishal Singh, **Title-** "Evaluation of the anti-diabetic potential of *Solanum pseudocapsicum* (Jerusalem cherry) and its cytotoxicity effect on tenoblast cells".
6. **Student:** Ruchi Tewari, **Title-** "In-vitro evaluation of anti-urolithiasis activity of alcoholic extract of *Bergenia ligulata* and it's effect on primary rat tenoblast cells".
7. **Student:** Nitin Singh, **Title-** "In-Vitro evaluation of the anti-diabetic activity of methanolic extract of *Dioscorea bulbifera* and it's effect on primary rat tenoblast cells".



(Netra Pal Sharma)