

Kumaun University, Nainital

Curriculum Vitae

Name : Dr. Deepak Chandra Melkani
Designation : Assistant Professor (Tutor Cum Demonstrator)
Department : Department of Zoology
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Educational Qualification

Degree	University	Subjects	Year
Doctor of Philosophy (Ph. D.)	Kumaun University, Nainital	Zoology	2021
Master of Sciences (M.Sc.)	Kumaun University, Nainital	Zoology	2012
Bachelor of Science (B.Sc.)	Kumaun University, Nainital	Zoology, Botany, Chemistry	2010

Work Experience -

Position	Department	University/Organization	Duration	Year
Tutor Cum Demonstrator	Zoology	Kumaun University, Nainital	2022-Till Date	1year 6months 21 days

Administrative Responsibilities -

Position	Nature of responsibility	University/Organization	Year
Procter Board Member	Procter	Kumaun University, Nainital-263002, Uttarakhand, India	2023

Research Interests

As a researcher in sickle cell Anaemia epidemiology, my interests lie in genetic modifiers' influence on disease severity and treatment response. I aim to conduct population studies to identify regions with high disease burden and guide targeted interventions. Additionally, I am investigating environmental factors' impact on disease prevalence and exploring strategies for global health equity in SCD care.

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
Bora, S., Melkani, D. C. , Arya, M., Bisht, S. S., & Reynolds, J. W.	LABORATORY OBSERVATIONS ON INCUBATION AND HATCHING PATTERN OF THE COCOONS OF THE EARTHWORM OCTOLASION	Megadriologica, 28(4).	2023

	TYRTAEUM		
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
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
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-tribal population of Uttarakhand	International Journal of Biology, Pharmacy and Allied Sciences. 11(12): 4595-4610	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
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
Melkani Deepak Chandra ,	Status of anemia and	Intern. J. Zool.	2021

Bora Shikha, Sharma Netrapal and Bisht Satpal Singh	haemoglobinopathies in Kumaun Region, Uttarakhand, India	Invest. 7 (2): 707-712	
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
Netrapal Sharma, Satpal Singh Bisht, Sanjay Gupta, Ajay Kumar and Deepak Chandra Melkani	<i>Macrotyloma Uniflorum</i> : A legume having anti-lithiatic potential of Uttarakhand	European Journal of Pharmaceutical and Medical Research, 6(3), 201-204	2019
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

b) Patents (start from recent publications) -

Authors name	Title of the patent	Patent no (Granted or filed)	Year

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
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

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	Study of Common Drugs as Anti-	National Conference on Trending	2024

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	Inflammatory Agents in Cultured Animal Cells.	Biotechnological Interventions to Address & Combat Himalayan Biodiversity Challenges on March 6-8, 2024	
Kadambari Bisht*, Anushka Shah, Shiwangi 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 Kumar Arya, Seeta Dewali, Deepak Chandra Melkani , Netra Pal Sharma, H.C.S Bisht and Satpal Singh Bisht	Regenerative Medicine: A concept note on its function and importance.	National Conference on Trending Biotechnological Interventions to Address & Combat Himalayan Biodiversity Challenges on March 6-8, 2024	2024
Tarun Khatwal*, Priyanshu Singh Bisht, Ayushi Rai,	Study of <i>Tinospora cordifolia</i> extract on	National Conference on Trending	2024

Divya Joshi, Kadambari Bisht, Ritu Khatri, Anushka Shah, Shivangi Bisht, Deepak Kumar Arya, Seeta Dewli, Deepak Chandra Melkani , Netra Pal Sharma, H.C.S Bisht and Satpal Singh Bisht	melanoma cell for their anticancer properties.	Biotechnological Interventions to Address & Combat Himalayan Biodiversity Challenges on March 6-8, 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	Hematological disorder related to milch animals and	National Conference on Trending Biotechnological	2024

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	their treatment.	Interventions to Address & Combat Himalayan Biodiversity Challenges on March 6-8, 2024	
Seeta Dewali, Netrapal Sharma, Deepak Melkani and Satpal Singh Bisht	Microbial Revolution in Aquatic Animal Health: Exploring Probiotic Potential For sustainable and Ecological Aquaculture management.	International Conference on Animal science and veterinary medicine, by VDGGOOD Professional Association, India (Nov. 2023), DOI: 10.13140/RG.2.2.14991.76964	2023
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
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	Biochemical and molecular	3 rd international conference	2023

Melkani and Satpal Singh Bisht	characterization of probiotic bacteria isolated from the gastrointestinal tract of <i>Schizothorax richardsonii</i> from Gaula River, Uttarakhand	(IAAHAS/AB/2023/013). Pg no. 59	
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
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	2018

		Kanyakumari organized by William Research Centre, Nagercoil-1	
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 by William Research Centre, Nagercoil-1	2018

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 -: Nil

Organization	Position	Year

Honours and Awards -

Award	Awarding Organization	Year
First prize award in the	International Conference on “conservation on natural	2018

conference	resources and traditional siddha pharmacological approaches for your future” held on 12-14 December 2018 in Kanyakumari organized by William Research Centre, Nagercoil-1.	
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Conference Presentations -

Title of presentation	Conference Name	Name of the institution	Year
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
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

(Deepak Chandra Melkani)