

Curriculum Vitae

Personal Details



Name : Dr. Tuneera Bhadauria

Subject: Zoology

Specialization: Ecology and Soil Biodiversity

Off. Address: Ecology and Soil Biology Research Lab , Department of Zoology, Feroz Gandhi Degree College (Lucknow University Raebareli, Uttar Pradesh, India

Email id tunira@gmail.com Institute website

Mobile Number : 91+ 9453022105; 8299358688

Academic Qualifications

Examination	Name of Degree	Subject(s)	Overall Percentage	Year	University/Institute
Secondary	Central Board of Secondary Education	English Hindi Maths Social Studies and Science	80	1978	kendriya Vidyalaya ,Airforce Station Chakeri
Sr.Secondary	Pre University North Eastern Hill Univ Shillong Meghalaya	Physics Chemistry Biology English Hindi	50	1980	Lady Keanes Girls College Shillong Meghalaya
Stream		Faculty of Sciences / Engineering/ Agriculture / Medical / Veterinary Sciences			
Bachelor's Degree	B.Sc. (Hons)	Zoology(hons) Botany Chemistry English	59.90	1982	North Eastern Hill University Shillong Meghalaya
Master's Degree	M.Sc.	Zoology	61.20	1984	North Eastern Hill University Shillong Meghalaya
Ph.D.		Ecology of earthworms at	1990	Submission Year: 1989	do

		higher elevation in Meghalaya Eastern Hill University Shillong Meghalaya			
		Salient features of your Ph.D. research work First study of its kind reported from anywhere in the world involving the impact of shifting agriculture practices right from pre-burn stages through cropping season and subsequent fallow development up till 40 years of secondary successional growth on Earthworm community structure, population diversity, and species distribution pattern as well as on role of earthworms in nutrient management under these varied land use practices.			

Title of Ph.D Thesis: Ecology of Earthworms in Soil Ecosystems At Higher Elevations in Meghalaya

Supervisor: Prof. P. S.Ramakrishan, Professor Emeritus

School of Environmental Sciences,

Jawaharlal Nehru University, New Delhi 110067

M Sc (ZOOLOGY), PhD (Ecology)

Teaching Experience

25 Years of Teaching undergraduate Courses In Basic Zoology, Ecology, Developmental Biology, Xenobiotics, and Biostatistics at the Masters Level(M.Sc) and Basic Zoology, Taxonomy and Ecology at the Undergraduate Level(B.Sc.)

Research Experience

Thirty years of Research Experience post-PhD

Ecology, Environmental Impact Assessment, , Ecosystem Management and Analysis, Soil nutrient management and recycling in different land management practices:, Soil Biota with special references to earthworms:, Soil Biology and Fertility restoration through management of Biodegradable resources. Xenobiotics, Water harvesting technologies; Participation of women for advancement of science

Major Scientific fields of interest

Soil fauna Biodiversity; Technology; Soil fertility restoration through Biological management of degraded eco systems; Water harvesting technologies:.

b) Research Publications

- [1] Tuneera Bhadauria and Parul Mishra 2024 .Vermicompost production and its potential in crop productivity, phytopathogen management and environmental pollution reduction, Handbook of Agricultural Technologies, SPRINGER NATURE , METEOR (under Review),
- [2] Pradeep KumarI, Tuneera Bhadauria and Pravesh Kumar 2024 Identification and distribution of earthworms species in tannery effluents area in Kanpur, Uttar Pradesh India, Journal of Experimental Zoology ,India. Volume 27(1) In Press.
- [3] Garima Singh And Tuneera Bhadauria. 2023 . Quantification of Humic Acid Produced in Worm-Activated Cast and Soil under Varied Land Use Types in Raebareli District . UTTAR PRADESH JOURNAL OF ZOOLOGY, 44(24), 28–37. <https://doi.org/10.56557/upjz/2023/v44i243806>
- [4] Tuneera Bhadauria and Pradeep Kumar 2023. Effect Of Chromium (Cr 6+) Toxicity On Earthworm Community Structure Along A Heavy Metal Contamination Tannery Effluents From Effluent Treatment Plant In Kanpur, Uttar Pradesh. CIB TECH JOURNAL OF ZOOLOGY, Volume 12, pp.282-296, ISSN: 2319-3883 <http://www.cibtech.org/cjz.htm>,

- [5] .Tuneera Bhadauria and Parul Mishra 2023. The Effect Of The Biopesticide Quercetin/Azadirachtin And Chlorpyrifos On Eutyphoeus orientalis Activity In Agricultural Soils In Raebareli, Uttar Pradesh". **IntechOpen** "Pesticides - Agronomic Application and Environmental Impact' Editor : Kassio Ferreira Mendes e "Pesticides - Agronomic Application and Environmental Impact", ISBN 978-1-83769-935-3.
- [6] Pradeep Kumar^{1*}, Tuneera Bhadauria 2023 Chromium effect on earthworm production, bioaccumulation and leachability in the process of vermiculture in tannery contaminated soil in Kanpur, Uttar Pradesh, India. Journal of Xidian University DOI:10.37896/jxul7.8/108 ISSN No:1001-2400
- [7] Garima Singh And Tuneera Bhadauria. 2023 Comparative Analysis of Integrated Use of Vermicompost and Inorganic Fertilizer on Chili Crop (Capsicum annum L.) Growth and Productivity. International Journal of Ecology and Environmental Sciences Year: 2023, Volume: 49, Issue: 6, Page No.s 399-410
- [8] Garima Singh , T.Bhadauria^{*}, Ajai Kumar (2022) Impact of Habitat Degradation on Biodiversity of earthworms in Raebareli district, Uttar Pradesh Journal of Zoology . 43(24) 402-414.
- [9] Bhadauria T, Kumar Pradeep, Kumar Anil, Singh Ashish, Mishra Jagdish (2022). Earthworm (Eutyphoeus orientalis) behavior response to bio pesticide (Quercetin/Azadiractian) and chemical pesticide (Chlorpyrifos). in: Editor pal Adarsh, Vig AV, J. Singh, S. Suther. Earthworm engineering and development. *New York, Nova Science Publisher*.:135-146. doi.org/10.52305/vlnm4957. Inc. New York.
- [10] M.U.Farooqui, T.Bhadauria^{*}, Ajai Kumar (2021) Chromosomal identification of two species of earthworms of genus Metaphire and Eutyphoeus from Raebareli district Uttar Pradesh, India.The journal of Oriental research Madras (ISSN:0022-3301.)
- [11] M.U.Farooqui, T.Bhadauria^{*}, Ajai Kumar, Garima Singh (2021) Impact Of Land Use Change And Habitat Degradation On Biogeographical And Functional Diversity Of Earthworms In Raebareli, Uttar Pradesh India, *Journal of Emerging Technologies and Innovative Research*. 8 : 6 ,1-12.ISSN-2349-5162
- [12] Tuneera Bhadauria & K.G.Saxena (2020) .Impact of Transformation of Forests to Other Land Use Types on Earthworm Community, Ecological and Functional Guild Changes.Harnessing Nature 2(2), 41-45. Retrieved from <https://harnessingnature.wordpress.com/harnessing-nature-magazine/>
- [13] Archana Singh . Natchimuthu Karmegam . Gopal Shankar Singh .Tunira Bhadauria . et al (2020) Earthworms And Vermicompost: An Eco-Friendly Approach For For Repaying Nature's Debt *Environ Geochem Health* [https://doi.org/10.1007/s10653-019-00510-4\(D123456789\)..-volV](https://doi.org/10.1007/s10653-019-00510-4(D123456789)..-volV) Springer Nature
- [14] Tuneera Bhadauria and Arvind Sharma (2019) Earthworms as Tools in Sustainable Management of Agroecosystems Proceedings of second International conference on Global initiatives for Sustainable development : Issues and strategies Second International conference 23rd to 27th June at Bangkok Thailand
- [15] Parul Gupta ,Tuneera Bhadauria & Ajai Kumar (2018) Post mating changes in vaginal region of female Drosophila under normal and pesticide treated condition, *International Journal of Current Research*, 10(5):69904-69905
- [16] Tunira Bhadauria and K.G.Saxena(2018) Community structure and recolonization by earthworms in rehabilitated ecosystems in garhwal himalayas, India. *Forest Research Engineering International Journal* 2(2):37-49. DOI: 10.15406/freij.2018.02.00024
- [17] Tunira Bhadauria , Archana Singh, Gopal Singh (2017) Earthworms impact in sustainable management of intensively managed agro ecosystems: Indian Scenario, *Annual Research & Review in Biology* 18(1): 1-16.
- [18] Tunira Bhadauria (2016) Soil Fauna as influenced by land use in Indogangetic plains In (Eds) KG Saxena and K.S Rao, Soil Biodiversity , Inventory Functions an Management.,pp 285- 294. Publishrs Bishen Singh Mahendra Pal Singh Dehra Doon ISSN:0022-3301),(
- [19] (Tunira Bhadauria, Pradeep Kumar, and Jagadish Mishra (2015) Impact of application of insecticide quercetin/azadirachtin and chlorpyrifos on earthworm activities in experimental soils in Uttar Pradesh India. *Science Postprint 1(2): e00044. doi:10.14340/spp.2015.02A0001. (Japan)*
- [20] Tunira Bhadauria, Pradeep Kumar, Rakesh Maikhuri, Krishan Gopal Saxena (2014) Effect of Application of Vermicompost and conventional Compost Derived from Different Residues on Pea Crop Production and Soil

Faunal Diversity in Agricultural System in Garhwal Himalayas India. *Natural Science*, 6 (6), 433-446.DOI: 10.4236/ns.2014.66042 (USA)

- [21] Tunira Bhadauria, Pradeep Kumar, Rohit Kumar, Rakesh..Maikhuri, Kotapalli .Srinivasan Rao, Krishan Gopal Saxena (2012) Earthworm populations in a traditional village landscape in Central Himalaya, India. *Applied Soil Ecology*, 53, 83– 93. Elsevier Science Publishers
- [22] Pradeep Kumar, Tunira Bhadauria, Jagadish Mishra, Vijay Kumar Chaturvedi (2012) Earthworm species composition and distribution in an agricultural landscape of the Raebareli district in Uttar Pradesh having intensive agricultural practices. *Carmelight*, 9 (2): 1-14
- [23] Tunira Bhadauria and Krishan Gopal Saxena (2010) Role of Earthworms in Soil Fertility Maintenance through the Production of Biogenic Structures. *Applied and Environmental Soil Science*, 1, 1-7. <http://dx.doi.org/10.1155/2010/816073> Netherlands
- [24] Tunira Bhadauria , KG Saxena , Rohit Kumar, Pradeep Kumar (2009) Influence of land use land cover change on diversity of earthworms in Raebareli district of Indogangetic plains. *Dynamic Soil, Dynamic Plant* 3(2) 73-81 Global Books Publication
- [25] Bhaskar Sinha, Tunira Bhadauria , P.S.Ramakrishnan K.G. Saxena , R.K. Maikhuri (2005) Impact of landscape modification on earthworm diversity in Hariyali Sacred landscape in Garhwal Himalayas India. *Paedobiologia*, 47, 357-370. Urban and Fischer Verlag
- [26] Tunira Bhadauria & P.S.Ramakrishnan and K.N.Srivastava (2000) Study on the diversity and distribution pattern of earthworms in the climax and degraded forest ecosystems in central Himalayas, India. *Soil Biology & Biochemistry*, 32, 2045-2054. Pergamon Press
- [27] Tunira Bhadauria & P.S.Ramakrishnan & K.N.Srivastava (1997) Population dynamics of earthworms during crop rotation under rain-fed agriculture in central Himalayas, India. *Applied Soil Ecology*, 6, 205-215. Elsevier Science Publishers
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- [30] Tunira Bhadauria & P.S. Ramakrishnan (1991) Population dynamics of earthworms and their activity in forest ecosystems of north- east India. *Journal of Tropical Ecology*, 7: 305-318. Intecol Press U.K.
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- [32] Tunira Bhadauria (2016) Soil fauna as influenced by land use in Indogangetic plains In: Eds (KG Saxena and KS Rao), Soil Biodiversity, Inventory Functions and Management, 264-285, Bishen Singh Mahendra Pal Singh, Dehradun, ISBN:978-81-211-0697-9
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- [47] Experience in teaching to Post Graduate and Under Graduate Degree Students M.Sc. (Zoology) courses in Environmental Conservation and Biodiversity, Natural Resource Management, Environmental Conservation, Community Ecology, Ecosystems Dynamics, Ecology And Sustainable Development ,Biostatistics Application in Ecology..

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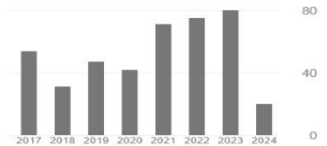
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<input type="checkbox"/>	TITLE	CITED BY	YEAR
<input type="checkbox"/>	Role of earthworms in soil fertility maintenance through the production of biogenic structures T Bhadauria, KG Saxena Applied and environmental soil science 2010	152	2010
<input type="checkbox"/>	Earthworm population dynamics and contribution to nutrient cycling during cropping and fallow phases of shifting agriculture (Jhum) in north east India. TBPS Ramakrishnan Journal of Applied Ecology 26, 505-520.	112	1989
<input type="checkbox"/>	Diversity and distribution of endemic and exotic earthworms in natural and regenerating ecosystems in the central Himalayas, India T Bhadauria, PS Ramakrishnan, KN Srivastava Soil Biology and Biochemistry 32 (14), 2045-2054	98	2000
<input type="checkbox"/>	Earthworms and vermicompost: an eco-friendly approach for repaying nature's debt A Singh, N Karmegam, GS Singh, T Bhadauria, SW Chang, MK Awasthi, Environmental Geochemistry and Health 42, 1617-1642	95	2020
<input type="checkbox"/>	Population dynamics of earthworms and their activity in forest eco-systems of north-east India. TBPS Ramakrishnan Journal of Tropical Ecology 7, 305-318	67	1991
<input type="checkbox"/>	Impact of landscape modification on earthworm diversity and abundance in the Hariyali sacred landscape, Garhwal Himalaya B Sinha, T Bhadauria, PS Ramakrishnan, KG Saxena, RK Maikhuri Pedobiologia 47 (4), 357-370	59	2003
<input type="checkbox"/>	Role of earthworms in nitrogen cycling during the cropping phase of shifting agriculture (Jhum) in north-east India T Bhadauria, PS Ramakrishnan Biology and Fertility of Soils 22, 350-354	55	1996
<input type="checkbox"/>	Earthworm populations in a traditional village landscape in Central Himalaya, India T Bhadauria, P Kumar, R Kumar, RK Maikhuri, KS Rao, KG Saxena Applied Soil Ecology 53, 83-93	36	2012
<input type="checkbox"/>	Population dynamics of earthworms during crop rotation under rainfed agriculture in central Himalayas, India T Bhadauria, PS Ramakrishnan, KN Srivastava Applied Soil Ecology 6 (3), 205-215	28	1997
<input type="checkbox"/>	Effect of application of vermicompost and conventional compost derived from different residues on pea crop production and soil faunal diversity in agricultural system in ... T Bhadauria, P Kumar, R Maikhuri, KG Saxena Natural Science 2014	20	2014
<input type="checkbox"/>	Impact of application of insecticide quercetin/azadirachtin and chlorpyrifos on earthworm activities in experimental soils in Uttar Pradesh India P Kumar, T Bhadauria, J Mishra Science Postprint 1 (2), e00044	13	2015
<input type="checkbox"/>	Impact of land use-land cover change on earthworm community structure in India T Bhadauria, PS Ramakrishnan Soil Biodiversity: Ecological Processes and Landscape Management (eds) PS ...	11	2005
<input type="checkbox"/>	Influence of land scape modification on earthworm biodiversity in the Garhwal region of Central Himalayas T Bhadauria, KG Saxena Proceedings of Indo US Workshop on Vermitechnology in Human Welfare (Indo ...	7	2007
<input type="checkbox"/>	Community structure and recolonization by earthworms in rehabilitated ecosystems in Garhwal Himalayas, India T Bhadauria, KG Saxena Forestry Research and Engineering: International Journal 2 (2), 35-47	5	2018
<input type="checkbox"/>	Influence of landuse and land cover change on diversity of earthworms in Raebarell District of Indogangetic plains, India T Bhadauria, KG Saxena, P Kumar, R Kumar, VK Chaturvedi Dynamic Soil, Dynamic Plant 3 (special issue 2), 199-207	4	2009
<input type="checkbox"/>	Abundance and diversity of soil fauna in degraded and rehabilitated ecosystems in Garhwal Himalaya T Bhadauria, R Kumar, P Kumar Soil Biodiversity: Inventory, Functions and, 263	2	2015
<input type="checkbox"/>	Ecology of earthworm in soil ecosystems at higher elevation of Meghalaya T Bhadauria Shillong	1	1987
<input type="checkbox"/>	IDENTIFICATION AND DISTRIBUTION OF EARTHWORM SPECIES IN TANNERY EFFLUENTS AREA IN KANPUR, UTTAR PRADESH, INDIA. P Kumar, T Bhadauria, P Kumar Journal of Experimental Zoology India 27 (1)		2024
<input type="checkbox"/>	Quantification of Humic Acid Produced in Worm-Activated Cast and Soil under Varied Land Use Types in Raebarell District G Singh, T Bhadauria UTTAR PRADESH JOURNAL OF ZOOLOGY 44 (24), 28-37		2023
<input type="checkbox"/>	Comparative Analysis of Integrated Use of Vermicompost and Inorganic Fertilizer on Chili Crop (Capsicum annum L.) Growth and Productivity. G Singh, T Bhadauria International Journal of Ecology and Environmental Sciences 49 (6), 539-553		2023

Articles 1–20

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RESEARCH GUIDANCE

Tuneera Bhadauria and Vikas Bharti 2024 Onwards **Registered to Lucknow University** presently undergoing Ph.D course work. *Title of the thesis: Lactose Intolerance in Adult Population of Uttar Pradesh*

Ph.D Research Supervisor

Tuneera Bhadauria and Vikas Bharti 2024 Onwards **Registered to Lucknow University** presently undergoing Ph.D course work. *Title of the thesis: Lactose Intolerance in Adult Population of Uttar Pradesh*

Tuneera Bahadauria and Parul Mishra 2023 Onwards **Registered to Lucknow University**, Pursuing her PhD degree presently, the *Title of the thesis: Impact of Seasonal Variation and Cropping Pattern on Biodiversity of soil meso and macroarthropods in Raebareli*

Tuneera Bhadauria and Garima Singh **Thesis submitted to CSJM University Kanpur in 2024**, *Title of the thesis: Earthworm Diversity Under different Land use types their role in enhancing soil microbes and fertility by integrated nutrient management in the agroecosystem of Raebareli UP.*

Tuneera Bhadauria and Pradeep Kumar 2023 **Thesis submitted to CSJM University Kanpur in 2023**, *Title of the thesis: Role of earthworms in the transformation of heavy metals under chromium and zinc contaminated soils in Kanpur district of U.P in India*

Tuneera Bhadauria and Mohd Umar Farooqui 2022. **Thesis submitted to CSJM Kanpur University in 2022**, *Title of the thesis: DNA Barcoding of Earthworms and Their Role in Crop Growth in Raebareli District U.P (provisional degree Awarded)*

As Co-Supervisor with Dr.Jagadish Mishra as Supervisor Dr. Manohar Lohia Awadh University Faizabad .*Title of the thesis: Study of the effects of biopesticide azadirachtin on the activity of earthworms in selected areas soils of district Raebareli Uttar Pradesh, Dr Manohar Lohia Awadh University Faizabad*

Awards

1. **APJ Abdul Kalam Award 2024 for Outstanding Researcher** by Association of Researchers and Academicians India on 27 Feb 2024
2. **Educationist of the year 2023 ; Certificate of Excellence for outstanding achievements** and high dedication in the field of education by RIFACIMENTO INTERNATIONAL 15 DEC 2023
3. **Certificate Of Achievement- Best Service In Zoology Award** In ; International Conference On Agricultural And Biological Sciences Held On 28 Th Oct 2023 by BRAINY MEET VD Good Professional Association India
4. **C.V. Raman Prize 2023** conferred by In Res Institute of Researchers, Ministry of MSME, Govt of India
5. **Innovative Educationist Award** conferred jointly by Glocal Environment And Social Association New Delhi And Ministry Of Commerce And Industry New Delhi
6. The **Research Findings of the Women Scientist project** have been identified as highlights of the **DST Research Scheme**, Published as in the **Research Highlights of the funded project** by the Department of Science And Technology Govt of India
7. **Department of Science And Technology Women Scientist Award** Vide Do. No India (DST) SRIWOS-AILS-108212003 (2004-2007)
8. **Department of Science And Technology Young Scientist Award** Vide Do. No SPNS/CRI/88 dated 1/511989 (1991-92).

Fellow of Societies

Nominated Fellow (F.A.R.A.I.) on 27 Feb 2024 Fellow of Academicians and Researchers of India

Membership of Societies

1. Life Member Global Environment and Social Association
2. Life Member Zoological Society of India Calcutta (Life member)
3. Membership of the **Commission on Ecosystem Management ; International Union for Conservation of nature and natural resources (IUCN)**
4. National Institute of Ecology
5. **British Ecology Society**
6. **Member Environment Impact Assessment Committee** UP Govt (Raebareli)

Research Projects Completed/Continuing

1. Impact Of Climate Change And Varied Agricultural practices on Soil Macrofauna Diversity and soil fertility in Raebareli District of Uttar Pradesh From 2023-continuing
2. Earthworm Diversity Under different Land use types their role in enhancing soil microbes and fertility by integrated nutrient management in the agroecosystem of Raebareli UP. From 2017-2022 .
3. Tuneera Bhaduria and Pradeep Kumar 2023 Role of earthworms in the transformation of heavy metals under chromium and zinc contaminated soils in Kanpur district of U.P in India , 2019-2023
4. DNA Barcoding of Earthworms and Their Role in Crop Growth in Raebareli District U.P 2016-2021
5. Study of the effects of biopesticide azadirachtin on the activity of earthworms in selected areas soils of district Raebareli Uttar Pradesh.
6. Role of earthworms in soil nutrient management under varied land use pattern in district Rae Bareli- project sanctioned By CSJM University Kanpur Via DD letter number CSJMU/CDC/29-48/2017...dated 22/3/2017 2017
7. The effects of a biopesticide on the activity of earthworms in selected area soil of district Rae Bareli(UP) vide letter no F-16-1763(SC)/2010(SAII) 2010-2015
8. A study of Conservation and Sustainable Management of Below-Ground Biodiversity in the Garhwal Region of Central Himalayas: *(TSBF –SARNET/ Global Environmental Facility (GEF). Sponsored By Tropical Soil Biology and Fertility Institute – South Asian Regional Network Supporting organization TSBF-CIAT Project No. GFL-2328-2715*
9. Improvement of soil fertility status in the degraded abandoned agricultural terraces and denuded forest landscapes through vermitechnology and traditional organic farming techniques in the Garhwal Himalayas. *(Sponsored By Tropical Soil Biology and Fertility Institute of the International Centre For Tropical Agriculture TSBF-CIAT Nairobi Kenya*
10. Ecological Assessment Of Soil Sodic Condition And Subsequent Reclamation Of Degraded Landscape through biological and organic amendments (plant byproducts and compost) using soil macrofauna (Earthworms) as tools In Indogangetic Plains. *(Women Scientist- Department of Science And Technology Govt.Of India (DST) SRIWOS-AIIS-1082/2003 (2004-March 2008).)*
11. Project on Training The Farmers In Utilizing Integrated Soil Fertility Management Practices For Sustainable Development And For Improved Soil Productivity In Agroecosystems, *Sponsored Indira Gandhi Krishi Udamita Vikas Sanshthan Allahabad Bank Raebareli.*
12. Diversity and distribution pattern of earthworms and termites; their role in the maintenance of soil fertility in the semi-arid India *(Council of Scientific and Industrial Research Govt. Of India, (CSIR)-13(7155-A)-Pool, Dated 27/2/1997 New Delhi) (1997- 2001)*

13. Biological Maintenance of Soil Fertility in Central Himalayas: The Role of Earthworms, All India Coordinated Project On Biological Maintenance of Soil Fertility, *Young Scientist award DST/SP/YS/CRV88, by Department of Science and Technology, Government of India) (1991-93).*
14. Ecology of Earthworms and Arthropods In Natural / Degraded Ecosystems And Agroecosystems and their role in soil fertility management. In Central Himalayan District of Almora (*Council Of Scientific And Industrial Research Govt. Of India, 9/560/88/EMR-I, New Delhi) (1989-93)*
15. Role of Women in Maintenance of Health and Hygiene in *Collaboration with Dr Padma Vasudevan Centre for Rural Development I.I.T New Delhi All India Co-ordinated project sponsored by Department of Science and Technology, Government of India(1990-91).*
16. Rain Water Harvesting Technologies For Sustainable Rural Development in the Himalayas. G B Pant Institute Of Himalayan Environment and Development *Sponsored By Department of Science And Technology Govt. Of India(1990-1992). (3Lakhs)*
17. Biological and organic amendments (plant byproducts and compost) using soil macrofauna (Earthworms) as tools In Indogangetic Plains. (*Women Scientist- Department of Science And Technology Govt. Of India (DST) SRIWOS-AILS-1082/2003 (2004-March 2008).*
18. Project on Training The Farmers In Utilizing Integrated Soil Fertility Management Practices For Sustainable Development And For Improved Soil Productivity In Agroecosystems, *Sponsored Indira Gandhi Krishi Udamita Vikas Sanshthan Allahabad Bank Raebareli.(2006-2007) (*

Research Experience

Duration	Institution	Nature of research work done
Nov 23- Continuing	Feroze Gandhi Post Graduate Degree College Raebareli	<i>Lactose Intolerance in Adult Population of Uttar Pradesh</i>
Nov 2023-Continuing	Feroze Gandhi Post Graduate Degree College Raebareli	<i>: Impact of Seasonal Variation and Cropping Pattern on Biodiversity of soil meso and macro arthropods in Raebareli</i>
July 2018 – December 2023	Feroze Gandhi Post Graduate Degree College Raebareli	<i>Role of earthworms in the transformation of heavy metals under chromium and zinc contaminated soils in Kanpur district of U.P in India</i>
Sep 2016- June 2023	Feroze Gandhi Post Graduate Degree College Raebareli	<i>Earthworm Diversity Under different Land use types their role in enhancing soil microbes and fertility by integrated nutrient management in the agroecosystem of Raebareli UP.</i>
July 2016 – December 2022	Feroze Gandhi Post Graduate Degree College Raebareli	<i>DNA Barcoding of Earthworms and Their Role in Crop Growth in Raebareli District U.P (provisional degree Awarded)</i>

July 2012 – December 2015	Feroze Gandhi Post Graduate Degree College Raebareli in collaboration with Ram Manohar University Faizabad	Study of the effects of Biopesticide (Azadirachtin) on the activity of earthworms in the selected area soils of district Raebareli
April- 2007- June 2012	Feroze Gandhi Post Graduate Degree College Raebareli UP in collaboration with School of Environmental Sciences Jawahar Lal Nehru University New Delhi	Project Co-coordinator (Himalayan Chapter) TSBF-CIAT Project CSM-BGBD) Research on Conservation and sustainable management of below ground biodiversity in natural and agricultural ecosystems of central himalayas
Aug.2004- March 2010	School of Environmental Sciences J.N.U. New Delhi	Women Scientist Ecological Assessment Of Soil Sodic Condition And Subsequent Reclamation Of Degraded Landscape through biological and organic amendments (plant byproducts and compost) using soil macrofauna (Earthworms) as tools In Indogangetic Plains.
March 1997 –March 2000	School of Environmental Sciences J.N.U. New Delhi	.Pool Officer(CSIR New Delhi) Diversity and distribution pattern of earthworms and termites; their role in maintenance of soil fertility in the semi- arid India
March 1992-1995	School of Environmental Sciences J.N.U. New Delhi	Young Scientist(Department of Science and Technology New Delhi) Biological Maintenance of Soil Fertility in Central Himalayas: The Role of Earthworms, All India Coordinated Project On Biological Maintenance of Soil Fertility,
(1990-91)	G.B.Pant Institute of Himalayan Environment and Development; in Collaboration with Dr. Padma Vasudevan Centre for Rural Development I.I.T New Delhi	Role of Women in Maintenance of Health and Hygiene (All India Co-ordinated project Sponsored By Department of Science and Technology, Government of India)

(1990-1992	G.B. Pant Institute Of Himalayan Environment and development	Rain Water Harvesting Technologies For Sustainable Rural Development in Himalayas
March 1989-1992	G.B.Pant Institute of Himalayan Environment and Development	Research Associate Ecology of Earthworms and Arthropods In Natural / Degraded Ecosystems And Agroecosystems and their role in soil fertility management .In Central Himalayan District of Almora

Consultancy Done

Type	PI/Co-PI	Name of Sponsoring/ Funding Agency	Outcome of the project
<i>Prepared Green Audit report for academic year 2023-26</i> Army institute of management and Technology Greater Noida	Advisor to Regional Centre of Expertise on education for sustainable development RCE Srinagar Tuneera Bhadauria A.K Gangwarf	Ongoing Army Institute of Management and technology Greater Noida	Preperation and Upgradation of Green aAudit Report
Biodegradation of campus waste for biodegradable waste management using vermitechnology' Vermigold The big gold Processes	Ongoing Co nsultancy	Sole PI	Other (Other (resource recycling and conversion of biodegradable waste produced in the institute into vermicompost which is being used as manure for creating green environs .))

2	. Natural Resource Management Techniques in Degraded Agroecosystems in Garhwal Himalayas	Completed Consultancy	Sole PI		Other (Technology is adopted by farmers for restoration of degraded ecosystem)
3	Technology imparted to, and adopted by Farmers For reclamation of sodic ecosystems using biological methodology in Raebareli District of Uttar Pradesh	Completed Consultancy	Sole PI		Other (technology adopted by farmers)
4	Role of earthworms in soil nutrient management under varied land use patterns in district Raebareli	Research project completed	Sole PI		Publication
5	Conservation and Sustainable Management of Below-Ground Biodiversity	Research project completed	Co-PI		Publication
6	5. Ecological Assessment Of Soil Sodic Condition And Subsequent Reclamation Of Degraded Landscape through biological and organic amendments (plant byproducts and compost) using soil macrofauna (Earthworms) as tools In Indogangetic Plains.	Research project completed	Sole PI		Publication
7	Rain Water Harvesting Technologies For Sustainable Rural Development in Himalayas, G B Pant Institute Of Himalayan Environment and development	Research project completed	Co-PI	12	Other (technology imparted to villagers for water harvesting)

Other activities/responsibilities:(academic/administrative)

In charge Department of Zoology
 Member U.G.C committee
 Member Research Advisory Committee;
 Member Women Care Committee;
 Member Admission committee;
 Member Exam committee; performed duty as assistant superintendent Examination,
 Member IQAC committee

Invited lectures / Resource Person/

Title of the Invited Lecture delivered/presented	Details of Conference / Seminar/ Organising Institution	Category/Type of Event	Date of presentation(yyyy-mm-dd)	Duration (in mins.)	Invited talk/Paper Presented
"Impact of earthworm-centred treatments on Pepper's germination, growth and fruit quality (Capsicum annum L.)"	International Conference on Agricultural and Biological Science , held on 28-Oct-2023, Organized by VD GOOD Professional Association®, India.	Conference	28 Oct 2023	30 minutes	Invited Lecture
Biological soil management in degraded agroecosystems using earthworm and soil biota for long ter development and empowerment of marginalised farmers :A case Study from Central Himalayas	Animal Veternary and Fisheries Science section 108,Indian Science Congress Nagpuri 3 rd to 7January 2023	108 Indian Science Congress Nagpur	6 Jan 2023	15 minutes	Invited lecture

FOREST AND WILD LIFE :PROBLEMS AND SOLUTIONS	Online Refresher Course in Forestry & Environmental Studies: 21st Century Issues, Challenges & Solutions	UGC-Human Resource Development Centre, Guru Ghasidas Vishwavidyalaya, Bilaspur	12/01/2023 to 25/01/2023.	45 minutes	Invitation as a resource person for delivering a lecture
ORGANIC FARMING: THE NEED OF THE TIME	National Seminar ON Organic Farming 1 Jan 3 January	Shri Kumarswami Mahavidyalaya, AUSA, Dist. Latur-MS*	2 JAN 2021	30 min	Invited lecture
Impact of Rehabilitation of degraded ecosystems on soil fauna diversity of Central Himalayas	GIAN Phylogenomics and Molecular Diagnostics for Species Identification	National	2019-10-16	35	Invited Lecture
Role of earthworm Diversity in sustainable management of agroforestry systems and agroecosystems	Global Conference, Our Biodiversity, Our Food and Our Health/GESA; BSI; Ministry of environment and forest Govt of India, Deptt of Zoology Govt P.G.College Saidabad Prayagraj U.P. India	International (within country)	2019-05-22	10	Resource Person
Waste management through biodegradable processes	Gyan Uday Seminar/Army Institute of management and Technology	State/University	2018-03-26	60	Invited Lecture

	Biological restoration of soil fertility in an agroecosystem in Garhwal Himalayas	National Seminar On Organic Farming for Sustainable Agriculture/ Department of Animal Sciences, M. J. P. Rohilkhand University, Bareilly	National	2014-03-11	20	InvitedLecture
5	Earthworm Density and Biomass in traditionally managed village landscape in Garhwal Himalayas in India	Third National Symposium on Earthworm Ecology and Environment(NSEEE- department of Zoology Tripura University, Tripura	National	2012-11-09	30	InvitedLecture
6	Capacity building in earthworm Taxonomy and Ecology	TSBF/UNEP/ GEF Workshop on Conservation and Sustainable Management of Below ground Biodiversity/ School of Environmental Sciences ,J.N.U new Delhi	National	2009-01-12	45	InvitedLecture
7	Influence of landscape modification on earthworm biodiversity and community structure in Garhwal region of CentralHimalayas	Indo U.S WorkShop on Vermitechnology inHuman Welfare(Indo - USVermitech)/Kongunado	International (within country)	2007-06-04	25	Resource Person

8	Impact of changes in land use pattern on soil macrofaunal diversity	Arts and Science College, Coimbatore-641029 Tamil Nadu India National seminar cum workshop on Conservation and Inventerization of Soil Biota/K.S.Rangaswamy College of Arts and Science, Tiruchengode, TamilNadu India	National	National	2007-03-10	30	InvitedLecture
9	Earthworms as tools in sustainable management of agroecosystems	2nd International conference on Globalinitiatives for sustainable development: Issuesand strategy Bangkok Thailand /GocharEducational and Welfare Society ,Saharanpur U.P. India	International (Abroad)	International	2019-05-26	15	Paper Presented

Editor/ Reviewer

1. Chief Editor *Asian Soil Research Journal*/SCIENCE DOMAIN INTERNATIONAL, UK, USA ,India
2. Chief Editorial *Journal of Global Ecology and Environment* published by International Knowledge press Europe India Since May 2017
3. Academic Editor of *Asian Journal Of Soil Science and Plant Nutrition*
4. Academic Editor *Uttar Pradesh Journal of Zoology*
5. Academic Editor *PLOS ONE* Public Life of Science publishers, U.S.A and U.K

6. **Editorial Board Member *Neo Ecologist***: An International Journal Of Neo Ecology, Published by Maplelink Scientific Publishers.Canada
7. **Academic Editor *Annual Research and Review in Biology*** a Journal Published by SCIENCE DOMAIN INTERNATIONAL, UK, USA ,India from July 2017 onwards
8. **Editorial board of *American Journal of Agriculture and Forestry*** published by Science Publishing Group U.S.A

On the panel of Reviewers for reviewing the research manuscripts in following Peer Reviewed Journals

- *Annual research and review in biology*
- *American journal of agriculture and forestry*
- *British Microbiology Research Journal.*
- *American journal of experimental agriculture*
- *Journal of applied chemical science international (United Kingdom)*
- *Journal of Geography, environment and earth science international(usa)*
- *International journal of plant and soil science (usa)*
- *Journal Of Global Agriculture And Ecology(UK)*
- *British Journal Of Applied Science And Technology.(UK)*
- *Journal Of Scientific Research And Report(UK)*
- *International Journal Of Plant And Soil Science(UK),*
- *European Journal Of Medicinal Plants(UK)*
- *Journal Of Agriculture And Ecology Research International(USA)*
- *Current Science (India) ;*
- *Applied and Environmental Soil Science (Hindawi Publications, Japan)*
- *Dynamic Soil Dynamic Plant (Global Science Books United Kingdom)*
- *Appointment as member of Board of Examiners to Adjucate The Ph.D. thesis submitted to Bharatiar University Coimbatoor (Tamil Nadu)*
- *Member of Board of Examiner to Adjucate The Ph.D. thesis submitted to Bharatidasan University to Bharatidasan University, Tirucherapalli (Trichi, Tamil Nadu)*

On the panel of examiners to examine the Ph.D thesis submitted to Mizoram University Aizwal

- **Extension Work done**
 - 1. *Execution of National and International Research And Development Projects on waste management and Conservation and sustainable development of ecosystems and degraded ecosystems.*
 - 2. *Vermicompost and Vermiculture Units set up in Villages Production of Biofertilizer And for Waste Recycling to conserve and manage degraded ecosystems through biological means in district Raebareli*
 - 3. *Restoration and Reclamation of Degraded Ecosystems using Biological and Organic waste Amendments in Semi-Arid Region of Indogangetic Plains.*
 - 4. *Natural Resource Management Techniques in Degraded ecosystems, Natural ecosystems and Agroecosystems Various Ecoregions of the Country;*
 - 5. *Technology imparted to, and adopted by Farmers For reclamation of sodic ecosystems using the biological methodology in the Raebareli District of Uttar Pradesh*
 - 6 *Involved as a Resource Person For Training The Farmers In Utilizing Integrated Soil Fertility Management Practices For Sustainable Development And For Improved Soil Productivity In Agro ecosystems, By Indira Gandhi Krishi Udamita Vikas Sanshthan at Allahabad Bank Raebareli.*
- On the panel of examiners to evaluate the copies of Indira Gandhi National Open University*

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- Administrative Experience
- Nominated Member, Environmental Impact Assessment Committee(Mining), Raebareli Govt of UttarPradesh
- Academic Counsellor for BSc Programme at IGNOU Study Centre
- Member of the college admission committee
- Member of College NAAC and IQAR committee 2012-2016
- Technology imparted to and adopted by Farmers For reclamation of sodic ecosystems using the biological methodology in the Raebareli District of Uttar Pradesh
- Involved as a Resource Person For Training The Farmers In Utilizing Integrated Soil Fertility Management Practices For Sustainable Development And For Improved Soil Productivity In Agroecosystems, By Indira Gandhi Krishi Udamita Vikas Sanshthan at Allahabad Bank Raebareli.
- Vermicompost and Vermiculture Units set up in Villages Production of Biofertilizer And for Waste Recycling with the aim to conserve and manage degraded ecosystems through biological means in district Raebareli

Countries Visited To attend Seminars /Conferences

- 1) Mexico
- 2) France
- 3) Indonesia
- 4) Singapore