

# RESUME



## ANJALI DHAR

Assistant Professor, Department of Zoology

Room No: B-13, Upper basement floor, DDE Building

Central University of Jammu, 180011

Mobile:9811332921,

e-mail: [anjali.zool@cuammu.ac.in](mailto:anjali.zool@cuammu.ac.in)

## Objective:

- Focus on teaching and research.
- Driven to succeed with ability of research and observation skills.
- Initiate the quality education, Innovative Research methodology and research techniques to obtain competitive approach and scientific minds.

## Educational Qualification;

- Ph.D Zoology from Bundelkhand University, Jhansi.
- M. Phil Zoology from Delhi University with Ist Division
- M. Sc Zoology from Ch. Charan Singh University, Meerut

## Remarks:

### Gold Medalist & University Topper

- B. Sc from Delhi University with Ist Division
- 10+2 from J&K Board of School Education with Ist Division
- Matriculation from J&K Board of School Education with Distinction.

## Broad area of Research :

### ENTOMOLOGY

Focusing primarily on areas like;

- a) Sperm maturation and activation in Lepidoptera.
- b) Toxicity of Plant Natural Products on Pests.
- c) Wild life Conservation and study on *Cervus hangul*.
- d) Effect of Dust and other Pollutants on Workers of Cement Factories.

- e) Pollution assessment in water bodies.
- f) Microplastic and Nano plastics assessment in freshwater bodies
- g) Aphid collection, identification, and assessment of damage by them
- h) Use of Nanoparticles as tools for insect control and environment sustainability.

**Field of Special Interest :**

- i) Applied Entomology.
- ii) IPM & Biological Control of insects.
- iii) Pests using Nematodes as a bio control agents.
- iv) Biochemistry & Toxicity of Natural Products in Insects.
- v) Environmental sustainability

**Knowledge of Techniques related to Research Work :**

- i) Electrophoresis
- ii) Enzymatic Assays on Spectrophotometer
- iii) Activity gels
- iv) Irradiation techniques & its integration with IPM.
- v) Sterile insect technique.
- vi) Rearing & Harvesting of Entomophagous Nematodes.
- vii) Bioassays of natural phytoproducts against pests
- viii) Assessment of pollutant impact on aquatic flora and fauna by Alpha techniques

**Research Experience :**

Fifteen years

**Teaching experience :**

12 years since 2004 to 2016 as Temporary, Adhoc and visiting Faculty

Now, **Permanent faculty as Assistant Professor in Central University of Jammu.**

**Administrative experience:**

- 6 years as a Course coordinator, Member of Proctor Committee, and member of ordinance committee.
- Participated in inter- departmental Seminars and Workshops for interacting, learning and teaching the new avenues in the field of Biosciences, Biochemistry and Biotechnology

## **Fostering Academic Skills:**

- Successively guided the undergraduate and post graduate students in dissertation.
- Guided the undergraduate students of **Shivaji college, Dyal singh college, Miranda house and Swami Shradanand college** in Environmental studies Projects and Presentations.
- Guided three students for the research and oral as well as Poster presentations of Environmental science related topics
- ✓ **Tribals-A Harbinger towards sustainability**
- ✓ **Organic farming - the need of an Hour**
- ✓ **Successible presentations of the research work in a Symposia hosted in Deshbandhu College, Delhi University**

## **Workshops attended: Three**

- **Biodiversity and Sustainable Development**
- **Rural development**
- **Orientation programme OR-88 attended from 31 May 2017 to 28 June 2017 from CPDHE(UGC-HRDC) UNIVERSITY OF DELHI**
- **Attended One week workshop cum Faculty Development Programme (FDP) on the theme “Yoga and meditation with reference to Kashmir Saivism” organized by Centre for Comparative Religions and Civilizations, Central University of University**

## **PublicationNo.**

1. Full Papers---Fifteen

Six SCOPUS INDEXED

2.International:Six

National:Nine

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

ORCID ID : 0000-0002-4664-2645

VIDWAN ID --170076

### **Conferences Attended :**

International : Five

National : Ten

### **Knowledge of Computers :**

MS Office 2000 .EXCEL, JAVA

### **Personal Particulars**

Father's Name : Late Mr. M.L.Dhar  
Date of Birth : 21st August, 1972  
Marital Status : Married  
Husband's Name : Mr. Sunil Bhat  
Nationality : Indian  
Religion : Hindu  
Languages Known : Hindi, English, Urdu  
Category : General

### **Research Publication Details:**

- RNAi-Based Biopesticides: A Review of Recent Studies in Lepidopteran Insects (2023) Y Sharma, S Padha, A Dhar, V Baweja, IK Singh Proceedings of the Zoological Society, 1-9
- Micro (nano) plastics pollution and human health: How plastics can induce carcinogenesis to humans? (2022). R Kumar, C Manna, S Padha, A Verma, P Sharma, A Dhar, A Ghosh, Chemosphere 298, 134267
- Microplastic pollution in mountain terrains and foothills: A review on source, extraction, and distribution of microplastics in remote areas (2022), S Padha, R Kumar, A Dhar, P Sharma Environmental Research 207, 112232
- Microplastics pollution load in sundarban delta of bay of bengal (2022) R Kumar, R Sinha, MRJ Rakib, S Padha, N Ivy, S Bhattacharya, A Dhar, Journal of Hazardous Materials Advances 7, 100099
- Plant protection practices by using botanicals for sustainable agriculture (2004) A Dhar Plant Archives 20 (2), 3741-3746
- Role of abiotic Factors in the Distribution and abundance of gall aphids on Alstonia scholaris in Jammu region( 2020) A Dhar Voyage 8 (2), 146-153

- Embarking on the Indian Biopesticides and their use in Sustainable Agriculture (2020) A Dhar, Grooming of Indian talent in modern perspective 1, 10
- Abiotic factors affecting the distribution and abundance of gall aphids on *Alstonia* in Jammu (2018) A Dhar
- Ecologically Sustainable Plant disease management under diversified farming. Prospects and applications of Nanoparticles. An Entomological Perspective and Route Towards Sustainable Ecosystem (2016) A Dhar Materials for Sustainable development and new Technology
- Role of activators within the prostratic part of male reproductive tract of *Spodoptera litura* in motility of eupyrene spermatozoa (2016) A Dhar Recent Trends in Genomics and Metabolomics 2016
- Age associated changes in the reproductive tract of *Spodoptera litura* (Noctuidae: Lepidoptera) A Dhar Voyager 5 (2), 8 2014
- Tribal life and Sustainable development, Environmental solutions, Voyager-A journal of life sciences, A Dhar Voyager 5 (2), 10 2014
- The influence on the age on the reproductive capacities of tobacco caterpillar moth, *Spodoptera litura* (Fabricius) Dhar, Anjali and Sehgal, proceedings of the national seminar on the relevance of traditional areas of 2012
- Insects are the study models of biological diversity and conservation with reference to their relation with microbial community, Dhar Anjali, Singh proceedings of national seminar and training workshop 2004
- Potential application and improvement of a parasitoid, a review of artificial selection for insecticidal resistance and introduction of natural enemies for biological control A Dhar Parasites and diseases 1, 10
- Potential application and improvement of a parasitoid, a review of artificial selection for insecticidal resistance and introduction of natural enemies for biological control (2003) A Dhar National Seminar Proceedings 2002
- Population dynamics and reproductive biology of gyrodactylid monogenean, a review A Dhar National seminar proceeding 2002
- Ascertaining the bioinfectivity potential of entomogenous nematodes on F-1 progeny of irradiated, *Spodoptera litura* RK Seth, V Baweja, A Dhar 1998
- Ascertaining the bioinfectivity potential of entomogenous nematodes on f-1 progeny of irradiated *Spodoptera litura*. A Seth, R.K Baweja, Varsha and Dhar Ist conference on area wide control of insect pests, FAO/IAEA, Penang 1998