

## **Dr. Manisha Sarswat**

email: [manu.srswt@gmail.com](mailto:manu.srswt@gmail.com)

### **Correspondence Address:**

Saraswat Bhawan, Behind Siddharth Public School, Upper Rajiv Nagar, Danda Dharampur, PO- Nehru Gram, Dehradun, Pin-248001, Uttarakhand

**Ph:** +91-9997973760

### **Academics**

- PhD - Zoology (2016) on 'Altitudinal Variations on Morphology, Cytogenetics and Molecular Characteristics of Drosophilids of Garhwal Region University' from H.N.B Garhwal University, Uttarakhand.
- CSIR NET-LS Life Sciences (2013) AIR-38, and SLET Life Sciences-Zoology (2013)
- Pre-Ph. D Zoology (2011), H.N.B Garhwal University, Uttarakhand
- M.Sc Zoology (2006-2008), H.N.B Garhwal University, Uttarakhand
- B.Sc - ZBC (2003-2006), H.N.B Garhwal, Uttarakhand

### **Teaching Experience**

- Guest faculty - Zoology (Since 2015) at S.N. P.G. College, Karanprayag, and Department of Zoology, S.D.M. P.G. College Doiwala, Dehradun, Uttarakhand
- Assistant Professor - Zoology (18/09/2015 to 15/12/2015) at Advanced Institute of Science & Technology, Maya Educational Group, Selaqui, Dehradun.
- Guest faculty (02/02/2015 to 31/05/2015) in the Department of Horticulture, H.N.B. Garhwal University, Srinagar-Garhwal, conducted theory and practical classes in Entomology and allied subjects to both UG and PG level.
- Assisted in departmental teaching for three Academic sessions (19/3/2012 to 26/11/2014) (while pursuing PhD) for Theory and Practicals at both UG & PG level in various subjects of Zoology & Biotechnology in the Department of Zoology & Biotechnology, H.N.B. Garhwal University, Srinagar-Garhwal.

### **Research Publications**

1. Bhardwaj A, Khan MZ, Fartyal P, **Sarswat M** and Fartyal RS. Drosophilid diversity (Diptera: Drosophilidae) from Shimla District, Himachal Pradesh. *Indian Journal of Entomology*, **2019**, 81(1): 82-86 (International, Indexed, Peer reviewed, ISSN 0367-8288)
2. Fartyal, R.S., **Sarswat, M.**, Dewan, S. and Fartyal, P. Morphometric analysis of wild-caught flies of *Drosophila* (Diptera: Drosophilidae) species: Altitudinal pattern of body size traits, wing morphology and sexual dimorphism. *Turkish Journal of Entomology*, **2017**, 41(4):367-382 (International, Indexed, Peer reviewed, ISSN 1010-6960) SCI Impact Factor: **0.65**
3. **Sarswat, M.**, Dewan, S. and Fartyal, R.S. Mitochondrial DNA sequence variation in Drosophilid species (Diptera: Drosophilidae) along altitudinal gradient from Central Himalayan region of India. *Journal of Genetics*, **2016**, 95(2), 357-367 (International, Indexed, Peer reviewed, ISSN 0022-1333) SCI Impact Factor **IF: 1.108**
4. **Sarswat, M.**, Sati, P.C., Dewan, S., Fartyal, R.S. Implying quantitative ecology of Drosophilid fauna as a tool for biodiversity assessment—A case study along altitudinal transect in Garhwal region of Central Himalaya. *Tropical ecology*, **2016**, 57(4): 637-647, (International, Indexed, Peer reviewed, ISSN 0564-3295) SCI Impact Factor **IF: 1.169**
5. **Sarswat, M.**, Fartyal, R.S., Sati, P.C., Kandpal, M. & Singh, B.K. Diversity and Distribution Pattern of Drosophilids (Diptera, Drosophilidae) along an Altitudinal Transect in Uttarakhand and its implication in cytogenetics & molecular systematics study. **2015**. *Journal of Entomological Research*, Vol. 39(4), 311-322. (International, Indexed, Peer reviewed, ISSN 0378-9519)
6. Fartyal, R.S., **Sarswat, M.**, Ihamo, N., Sati, P.C. and Asha. **2014**. Records of *Zaprionus indianus* and *Drosophila suzukii indicus* as invasive fruit pests from mid valley region of Garhwal Uttarakhand. *Drosophila Information Service*, USA, Vol. 97, 119-123. (International, Indexed, Non Peer reviewed, ISSN 0070-7333)
7. Pradhan, S. Sati, P.C., Fartyal, R.S., Chatterjee, R.N., **Sarswat, M.**, Kandpal, M.C. and Singh, B.K. **2014**. *Drosophila curviceps* species-group (Diptera: Drosophilidae) from India, with description of a new species and redescription of a known species. *Proceeding of Zoological Society Calcutta*, Vol. 68(2):178–183. DOI 10.1007/s12595-014-0121-8. (International, Indexed, Peer reviewed, ISSN 0373-5893)
8. Patel, M.K., Chaudhary, P., **Sarswat, M.**, Dewan, S., Sati, P.C. & Fartyal, R.S. **2014**. Molecular characterization of some drosophilid species from biodiversity rich Uttarakhand state of India. *Journal of Entomology and Zoology Studies*, Vol. 2(5): 114-118. (National, Indexed, Peer reviewed, ISSN 2349-6800)

## **Dr. Manisha Sarswat**

email: [manu.srswt@gmail.com](mailto:manu.srswt@gmail.com)

### **Correspondence Address:**

Saraswat Bhawan, Behind Siddharth Public School, Upper Rajiv Nagar, Danda Dharampur, PO- Nehru Gram, Dehradun, Pin-248001, Uttarakhand

**Ph: +91-9997973760**

9. **Sarswat, M.**, Sati, P.C., Semwal, U., Patel, M.K. and Fartyal, R.S. **2013**. Intra-specific Cytogenetic variations among three *Drosophilid* species viz., *Drosophila melanogaster*, *Drosophila repleta* and *Zaprionus indianus* collected along an altitudinal gradient in Garhwal region. *Drosophila Information Service*, USA, Vol. 96, 103-105. (International, Indexed, Non Peer reviewed, ISSN 0070-7333)
10. Sati, P.C., Fartyal, R.S., **Sarswat, M.**, Kandpal, M., Kanita, Patel, M.K. and Pradhan, S. **2013**. Check- list of *Drosophilid* species so far described and recorded from Uttarakhand state, India. *Drosophila Information Service*, USA, Vol. 96, pp 79-83. (International, Indexed, Non Peer reviewed, ISSN 0070-7333)
11. Fartyal, R. S., Sati, P. C. and **Sarswat, M.** **2012**. Population density and preliminary morphometric study of *Drosophilids* inhabiting Chamoli region of Uttarakhand. *NeBIO An international journal of environment and biodiversity* 3(5) Special Issue: EBI 2012, Volume III Issue 5: pp. xx-xx. (International, Indexed, Peer reviewed, ISSN 2278-2281)

### **Book chapter**

12. Fartyal, R. S., Sarswat, M. 2017. "Study on Invasive Fruit Pests *Drosophila suzukii indicus* & *Zaprionus indianus* and Possible Management Strategies in Garhwal Region, Uttarakhand", In: *Environment Health : Human Welfare in Present Scenario*. (eds. S. Kumar, S. K. Solanki, J.V.S. Rauthan, N.Pemola Devi), pp 199-210. Published by ABS Books, Delhi (ISBN 978-9386088-15-4).

### **Research Papers Presented in Conference/Seminars Attended:**

#### **International :**

1. ATBC Asia-Pacific Chapter Meeting, 25-28 March 2017, **Xishuangbanna, China**.
2. 27th International Congress for Conservation Biology, 2-6 August 2015. **Montpellier, France**.
3. Biodiversity Asia 2012- The 2nd Asia Regional Conference. 7-10 August 2012, Bengaluru.

#### **National**

1. 102<sup>nd</sup> Indian Science Congress. 3-7 January 2015.
2. 8th Uttarakhand State Science & Technology Congress. 26-28 December 2013.
3. National Seminar on Uttarakhand Disaster: Contemporary Issues of Climate Change and Development with a Holistic Approach. 25-27 October 2013. Sri Dev Suman University, New Tehri.
4. 2nd National Conference on Environment and Biodiversity of India. 29-30 December 2012. Delhi University, New Delhi.
5. National Seminar on Status of Environment and Biodiversity: Rio+20 and Role of Space Technology. 2-3 November 2012. Gurukul Kangri University, Haridwar.

### **Invited lecture:**

1. APB Govt PG College, Augustyamuni, Rudraprayag on 09 March 2016.

### **Professional Trainings/Workshops Attended:**

1. SERB School in Insect Biology at School of Life Sciences, University of Hyderabad. 07-15 December, 2015.
2. Eleventh Teacher/Researcher Training Workshop on Teaching and Learning Genetics with *Drosophila* at Indian Institute of Science, Bangalore. 29 December-10 January, 2015.
3. Advanced Training Program on SPSS. Department of Statistics, HNB Garhwal University. 30-31 January, 2014.
4. Workshop on Functional Genomics and Bioinformatics. Varanasi. 27 February - 1 March, 2013.
5. National Workshop on Taxonomic Keys and Identification tools of Different groups of Flora and Fauna. Gurukul Kangri University, Haridwar 29 October - 3 November, 2012 (One week).

### **Areas of Interest**

*Drosophila* Taxonomy, Cytogenetics, Molecular Taxonomy (Phylogenetics)