

Dr. Twinkle



Contact no: 8587007894



Address: Flat no. 5A, Teachers Residential Flat, BHU, Varanasi



Email ID.: twinklesinha1901@gmail.com



Career Objective

Seeking opportunity to work with an esteemed organization where I can contribute significantly in organizational as well as personal growth.

4 years 03 months Research experience in ICAR-IARI, Pusa campus, New Delhi.



Education

Doctor of Philosophy (Biotechnology)

December 2021

Amity Institute of Biotechnology,
Amity University, Noida, Uttar Pradesh.

Marks 7.67 CGPA(Division 1st)

Masters in Science (Biotechnology)

July 2014

Lalit Narayan Mithila University,
Darbhanga, Bihar.

Marks 83.11% (Division 1st)

Bachelor in Science (Biotechnology)

October 2011

Samastipur, College, samastipur.
Lalit Narayan Mithila University,
Darbhanga, Bihar.

Marks 73.5% (Division 1st)

10+2

June 2008

NIOS, Samastipur, Bihar.

Marks 71.8% (Division 1st)

10th

May 2005

St. Paul's school
Affiliated with
CBSE, New Delhi.



Academic Achievements

Received **Best Ph.D. Thesis Award** SVPSS, in an International conference organized in Agra college, Agra (2023)

Received **Gold Medal** in M.Sc Biotechnology for scoring highest marks in University (2016)

Received "**Junior Scientist Award**" for excellent contribution in the field of agriculture and allied on the occasion of "International Conference on Advances in Agriculture and Allied Science Research" organised by Rama university, Kanpur (2019)

Qualified **National Eligibility Test (NET)** for Assistant Professor conducted by UGC (2020)

Website- <http://npc.iari.res.in/plusinae/index.php> h-index- 4; i10-index-1; Citations-48



Thesis Work

Ph.D. in Biotechnology		
Title	“Molecular Characterization of Leaf Eating Semiloopers Belonging to Subfamily Plusiinae (Lepidoptera: Noctuidae) In India”	
Advisor	Dr. Shashank PR (Co-guide) Scientist, Division of Entomology, Indian Agricultural Research Institute, New Delhi-110012, Delhi, India	Dr. Pratima Chaudhuri (Guide) Professor Amity Institute of Biotechnology Amity University Noida, U. P
Year	2021	

M.Sc. (Biotechnology)		
Title	“Characterization of 5'ETS of EhR2 unit of <i>Entomoeba histolytica</i> rDNA plasmid”	
Advisor	Dr. Vijay Pal Yadav Jawaharlal Nehru University, New Delhi India	Dr. Jaykar Jha LNMU, Darbhanga Bihar
Year	2014	



Published/Accepted Research Papers

1. Saniya tyagi; Srinivasa N.; R. N. Singh; C. P. Srivastava; **S. Twinkle**; Sanat Kumar Das; Mallikarjuna Jeer **2022**. Migratory behaviour of Brown planthopper, *Nilaparvata lugens* in India as inferred from genetic diversity and reverse trajectory analysis. *3 Biotech* 266:1-12 **I.F=2.89**
<https://doi.org/10.1007/s13205-022-03337-6>
2. Varun Arya, Srinivasa Narayana, Saniya Tyagi, Samantapudi Venkata Satyanarayana Raju, Chandra Prakash Srivastava, **Twinkle Sinha** & Pratap Divekar, **2022**. DNA barcoding of fruit flies associated with cucurbit ecosystem and combination of Cue-Lure and Methyl Eugenol in trap is not effective for mass trapping of responsive fruit flies. *Phytoparasitica* 50:683–695; DOI: 10.1007/s12600-022-01003-4 **I.F=1.43**
3. Pathour R. Shashank, Narendra Singh, Anand Harshana, **Twinkle Sinha** & Natalia Kirichenko **2021**. First report of the poplar leaf miner, *Phyllonorycter populifoliella* (Treitschke)(Lepidoptera: Gracillariidae) from India. *Zootaxa* 4915 (3): 435–450. **I.F=1.09**
4. **Twinkle**, Shashank PR and Pratima Chaudhuri (Chattopadhyay) **2020**. DNA barcoding and Taxonomic account on some selected species of subfamily Plusiinae from India. *Zootaxa* 4845(4):451-486. **I.F=1.09**
5. Naresh M. Meshram, PR Shashank and **Twinkle sinha** **2017**. A new genus of leafhopper subtribe Paraboloponina (Hemiptera: Cicadellidae) with molecular phylogeny of related genera. PLoS ONE 12(5): e0177644. <https://doi.org/10.1371/journal.pone.0177644> **I. F=3.75**

6. PR Shashank, **Twinkle**, K.Chandrashekar, Naresh M Meshram, Sachin S. Suroshe and A.S.R Bajracharya **2018**. Genetic homogeneity in south American tomato pinworm, *Tuta absoluta*: A new invasive pest to oriental region. *3 Biotech* doi: 10.1007/s13205-018-1374-0 **I.F=2.89**
7. **Twinkle**, Shashank PR and pratima chaudhuri (chattopadhyay) **2018**. DNA barcoding and morphological characterization of moth *Antoculeora ornatissima* (Walker, 1858) (Lepidoptera: Noctuidae), a new range record from western Himalayan region of India. *Journal of threatened taxa* 10(13):12817-12820. **I.F=0.5**
8. **Twinkle**, Shashank PR and Pratima Chaudhuri (Chattopadhyay) **2020**. Genetic analysis of green garden looper, *Chrysodeixis eriosoma* (Lepidoptera: Noctuidae: Plusiinae) using mitochondrial COI gene sequences from India. *Journal of Experimental Biology and Agricultural Sciences* 8(3):269- 275. **(Scopus indexed)**.
9. N Srinivasa, Subhash Chander, Twinkle and Rahul Kumar Chandel **2020**. Genetic homogeneity in brown planthopper, *Nilaparvata lugens* (Stål) as revealed from mitochondrial cytochrome oxidase I. *Current Science* 119(6): 1045-1050. **I.F=1.12**
10. **Twinkle**, Shashank PR and Pratima Chaudhuri (Chattopadhyay) **2019**. DNA Barcoding Of agriculturally important Plusiinae (Lepidoptera: Noctuidae: Plusiinae). *Biochemical and Cellular archives* 19 (2): 4181-4184 **(Scopus indexed)**.
11. **Twinkle**, Shashank PR and pratima chaudhuri (Chattopadhyay) **2018**. Taxonomy of agriculturally important Plusiinae (lepidoptera: noctuidae). *Indian Journal of Entomology*, 80(3): 748-760 **(Scopus indexed)**.
12. **Twinkle** and Shashank PR **2018**. A new record of species *Ctenoplusia kosemponensis* (Strand, 1920) (Lepidoptera: Noctuidae: Plusiinae) from Karnataka, India. *Advances in Bioresarch* 9(5):23-25.
13. PR Shashank and **Twinkle** **2015**. A new record of lichen moth, *Oeonistis altica* (Linnaeus, 1768) (Erebidae: Arctiinae: Lithosiini) from Arunachal Pradesh, India. *Current Biotica* 9(2): 178-180.

Book Chapters published:

1. Twinkle and Srinivasa N. 2019. Genomic Organisation of *Entamoeba histolytica* (Schaudinn, 1903) - The Protist Parasite and its Mode of Transmission and Treatment. *Research in microbiology*, pp 1-8.
2. Srinivasa N and Twinkle. 2019. Molecular Basis of Insect Plant Interaction. *Advances in agricultural Entomology* Pp 1-8.



Participation in Conferences/Symposia/Seminars/Workshops

- ✚ Oral Presentation on the topic “DNA Barcoding and Phylogenetic studies of leaf eating semiloopers of subfamily Plusiinae (Lepidoptera: Noctuidae) from India” in “International Conference on Advances in Agriculture & Allied Science Research”, 23th-24th Feb 2019 at Rama university, Uttar Pradesh, India.
- ✚ Presented a poster on “DNA Barcoding and Phylogenetic studies of subfamily Plusiinae (Lepidoptera: Noctuidae) from India ” in XVI AZRA International Conference on Enhancing on Applied Zoological Research for Sustainable Agriculture and Food Security, 9th-11th Feb, 2018 at Banaras Hindu

University, Varanasi, India.

- ✚ Participated and Presented Poster entitled “Taxonomic studies on leaf eating caterpillars of subfamily Plusiinae (Lepidoptera: Noctuidae) infesting agricultural crops” in 5th National Conference on Biological Control held at 9th to 11th February 2017 at NBAIR, Bengaluru
- ✚ Participated and Presented Poster entitled “Taxonomic studies on leaf eating caterpillars of subfamily Plusiinae (Lepidoptera: Noctuidae) infesting horticulture crops” in 7th Indian Horticulture Congress held at 15th to 18th November 2016 at IARI, Pusa campus, New Delhi.
- ✚ Participated and presented a poster on “Diagnosis and distribution of Agriculturally Important Pest of Subfamily Plusiinae in India” in 3rd M. K. Chandrashekar memorial symposium held at 4th to 5th February 2016 at Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore.



Certificate courses and trainings

- ✚ Two days **Metagenomics workshop** conducted by Biokart India Pvt. Ltd. Held on 30th-31st January, 2023
- ✚ Attended training programme "**SERB School in Insect Biology**" at University of Hyderabad which was organized by DST-SERB, GOI (from 07.12.2015 to 21.12.2015)
- ✚ Attended training programme "**Plant tissue culture**" at Tectona Biotech. Resource centre, Bhubneshwar, Orissa.



Work Experience

- ✚ **Senior research fellow**- Banaras Hindu University, Varanasi (**From September 2022- till now**).
- ✚ **Junior research fellow** - “DBT-TERI Centre of Excellence Project on Integrated production of advanced biofuel and biocommodities” in CCUBGA, Division of Microbiology, IARI, New Delhi. (February 2020- September 2020)
- ✚ **Junior research fellow** - “Taxonomy and molecular characterization of selected potential insect pest of Lepidoptera group in Ladakh region”, DRDO-DIHAR. (June 2018- December 2018)
- ✚ **Junior research fellow**- “Systematic studies of Leaf eating semiloopers of subfamily plusiinae (Lepidoptera:Noctuidae) from India”, ICAR-IARI, Pusa, New Delhi (May 2015 – May 2018)
- ✚ **Dissertation**- “Characterization of 5'ETS of EhR2 unit of Entomoeba histolytica rDNA plasmid” from Jawaharlal Nehru University, New Delhi (January 2014 to April 2014)



Instruments and techniques handled

PCR, Gel Doc, Nano Drop, Gel Electrophoresis, Scanning Electron Microscope, UV illuminator, Autoclave, Centrifuge, Spectrophotometer, Automontage microscope, Laminar Air Flow, Incubator etc.

Worked with molecular Biology techniques



Software working with

Phylogenetic tree analysis software: MEGA6, MEGA 7; BioEdit, Photoshop CS3, BOLD V3 , Expasy, Dna SP5.10.01, NETWORK



Personal Details

Father's Name: Vijay Kumar Sinha **Mother's Name:** Poonam Sinha **Birthday:** 19th December
Nineteen hundred ninety **Marital Status:** Married **Gender:** Female **Nationality:** Indian
Permanent Address: Bahadurpur, ward no 26, Behind model high school, Samastipur, Bihar.
Correspondence Address: Flat No. 5A, Block A, Teachers Residential Flat, Jodhpur colony, Banaras
Hindu University, Varanasi.

Twinkle

Name and signature