

DR. YASHA YADAV

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EDUCATIONAL QUALIFICATION:

- Ph.D.- Zoology (Environment toxicology and animal physiology), MDU, Rohtak, awarded 2019
- M.Sc. Zoology, 2011-13, Department of Zoology, University of Delhi
- B.Sc. (Hons.) Zoology, 2008-11, Miranda House, University of Delhi

OTHER QUALIFICATIONS

Bachelor of Education (2014) – Maharshi Dayanand University, Rohtak

ACADEMIC ACHIEVEMENTS: `

1. **CSIR -UGC NET JRF**- Qualified (2014)
2. **Chandra Sathiraju medal – Best student of B.Sc. (Honors) Zoology 2nd year** securing the highest marks in the Bio-Chemistry paper.
3. **Saroj Kesar Meritorious Award**- for securing the **highest marks in Physiology and Functional Histology B.Sc. (Honors) Zoology 3rd year.**
4. Qualified **GATE 2013** Life Sciences.
5. CTET Qualified
6. HTET Qualified

TEACHING EXPERIENCE

- **Assistant Professor**, Department of Zoology, **Hansraj College**, University of Delhi (7 October, 2022- till date)
- Assistant Professor (Ad hoc) in **Miranda House College, University of Delhi** (20 July,2017- 6 October, 2022)

OTHER WORK EXPERIENCE/ADMINISTRATIVE WORK

- **Advisor Member**, NSS, Miranda House (2018-20)
- **Member**, Unnat Bharat Abhiyan Cell, Miranda House (Since 2020)
- **Staff Advisor**, Synapse, The Zoology Society, Miranda House (Since 2019)
- **Coordinator**, Departmental NAAC committee

- Worked as **Technical Assistant in Food corporation of India** (2014), to control infestation of stored grain pests.

INNOVATIVE TEACHING – LEARNING

- Focus on interactive and storytelling-based teaching
- To aid in the teaching – learning during pandemic developed resource material for Papers-
 - Genetics and Evolutionary Biology Theory
(<https://www.youtube.com/playlist?list=PLF5iw3EAhXUcY7UOXzk2ct-fPTVLK2JGB>)
 - Animal Diversity Theory
(<https://www.youtube.com/playlist?list=PLF5iw3EAhXUdfVdh9BjUwYR6N7SlpuA9u>)
 - Biochemistry of Metabolic Processes
(<https://www.youtube.com/playlist?list=PLF5iw3EAhXUeMik1agJHa5VEbhYp9XjS>)

INTERNSHIP AND PROJECTS

- Project- **Digitization of The Zoology Museum**, DBT Star College Scheme sponsored project (Since 2019)
- Member **-Drosophila research group** -for Maintenance of *Drosophila* Culture Assessing the effect of plant extracts on its growth and development
- Mentored DSKC Summer internship (June 2022) on Effect of medicinal plant extracts on *Drosophila melanogaster*
- Mentored a **Student Activity Project under the aegis of IQAC Miranda House and Synapse, The Zoology Society, Miranda House** on Study of Life Cycle of Fruit fly through fly trap method (2021 and 2022)
- Mentored DSKC Summer internship (June 2021) on Environmental factors playing role in transmission of Covid-19 in India: A Bio- statistical analysis
- Mentored DSKC Summer internship (June 2021) on Blog writing on New frontiers in *Drosophila* Research during the Covid-19 pandemic
- Mentored DSKC Summer internship (June 2020) on Science communication and review writing on “New Frontiers in *Drosophila* research”.
- Mentored DSKC Summer internship (June 2019) on *Drosophila melanogaster* culture and Genetic crosses at Miranda House, University of Delhi.
- Mentored a **DBT Star College Student Activity Project** on Profiling Dietary Effects on *Drosophila melanogaster* behaviour and development at Miranda House, University of Delhi.
- Mentored INSPIRE internship at Miranda House, University of Delhi, December 2017.

SEMINARS AND CONFERENCES

- Completed Two Weeks **Faculty Development Programme** On "Advanced Concepts for Developing Moocs" From July 02 - July 17, 2020 by Teachinglearning centre, Ramanujan College, University of Delhi
- Completed the online **national one-week faculty training program** on "Pedagogical training for effective online teaching and learning" organized by Deen Dayal Upadhyay College, University of Delhi and K.T.H.M College, Nashik, 3-10 August 2020.
- Member, Organizing committee, Online international conference on Science and Society under the aegis of IQAC, Miranda House, 23-25 February, 2022.
- **Organizing Secretary**, Dragonfly Festival, Lecture cum Workshop for Undergraduate Science Students, Department of Zoology, Miranda House, University of Delhi on 28 August 2019.
- **Organizing Secretary**, Science Communication and Career Workshop for Undergraduate Science Students, Department of Zoology, Miranda House, University of Delhi on 9 September 2019.
- International Conference on Emerging Areas of Environment Science and Engineering (EAESE-2017)- **Oral presentation** on effect of aluminium phosphide and dichlorvos on earthworm reproduction.
- UGC sponsored National Seminar on "Biodiversity: Status and Significance" organized by Dept. of Botany, MDU, Rohtak- **poster presentation** titled "Seema Karuvelum (*Prosopis juliflora*): Biological invasion
- National Seminar cum Workshop on Animal Ethics and Experimentation, organized by Central Animal House, MDU, rohtak.
- **Resource person** in Bridge course on "Laboratory instrumentation: Principle, usage and applications" organized by Dept. of Zoology, Miranda house college in year 2017, 2018, 2019, 2020 and 2021.
- DBT star college scheme workshop on "Understanding our environment: Human interference" August 18, 2017 at Delhi university
- DBT star college scheme sponsored workshop on "Immunoinformatics and Rational Vaccine design", Sept 18- 22, 2017 at Delhi University.
- DS Kothari centre for research and innovation in science education and BIRAC workshop on Catalyzing a cultural shift in youth entrepreneurship.

RESEARCH SKILLS

- FTIR, UV and NMR Spectroscopy
- Biochemical assays- Carbohydrate, Protein, Lipid and Lipid Peroxidation Analysis.
- Vermiculture, Vermicomposting, Production of Vermiwash
- Taxonomy of Oligochaeta

- Probit Analysis
- Dissection and Histopathological analysis (Microtomy)
- Statistical Tools such as ANOVA, Post hoc T tests
- *Drosophila melanogaster* culture and behavioral assays like climbing assay, larval movement assay, etc.
- Graphic Designing - CorelDRAW Graphics, Affinity Designer, AutoDesk SketchBook.

PAPERS PUBLISHED

- Kumari, R., **Yadav, Y.**,Dubey, G. 2022. Emerging frontiers of antibiotics use and their impacts on human gut microbiome. *Microbiol Res.* 2022 Oct;263:127127. doi: 10.1016/j.micres.2022.127127. Epub 2022 Jul 15. PMID: 35914416.
- **Yadav, Y.** Shukla, V. 2020. Histopathological Effects of Sublethal Dose of Dichlorvos on Nerve Cord and Chloragogen Tissue of *Eisenia fetida*. *Bulletin of Pure and Applied Sciences- Zoology.* Vol. 39 A (1).
- **Yadav, Y.** Shukla, V. 2019. Detrimental effects of aluminium phosphide powder residue. *J.Env. & Bio Sci.* Vol. 33(1): 83-84.
- **Yadav, Y.** Deswal, P. Shukla, V. 2019. Effect of Aluminium phosphide powder residue on Earthworm *Eisenia fetida*. *Int. J. Res & Anal. Rev.* Vol. 6(2): 779-783.
- Deswal, P. **Yadav, Y.** Khushbu. Shukla, V. 2020. Evaluation of antioxidant activity of *Eisenia fetida*. *Int. J. Bio. Innov.* 2 (2): 109-116.
- Book Chapter- **Yadav, Y.** and Shukla, V. 2020. Role of Earthworms in soil ecotoxicological studies. Trends in technology, agriculture, food, environment and health. 433-442.
- Book Chapter - Deswal, P. **Yadav, Y.** Kumari, T. and Shukla, V. 2020. Toxicology. Emerging trends in environmental science. 168-173

EXTRA CURRICULAR

Scientific illustrations and Digital art and Painting

Painting on theme Biodiversity for everyone's life which was chosen as Poster highlight for Biodiversity conclave in Miranda House in association with IBSD, Manipur on 31 August 2018.

Contributed digital paintings for the Departmental Magazine, *Evolvere*, Miranda House.