

# Curriculum Vitae

## Prof. Meena Yadav

Department of Zoology

Maitreyi College, University of Delhi

Chanakyapuri

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### Founding Member & Managing Editor (Since 2020)

Vantage: Journal of Thematic Analysis (ISSN:2582-7391), <https://journalvantage-maitreyi.com/>

### Review Editor (Since 2022)

Frontiers in Ecology and Evolution, Section: Population, Community and Ecosystem dynamics  
<https://www.frontiersin.org/journals/ecology-and-evolution/sections/population-community-and-ecosystem-dynamics/editors>

### Founding Member & Co-convenor (Since 2017-18)

Centre for Research, Maitreyi College, University of Delhi

### Coordinator

Internal Quality Assurance Cell (IQAC) 2024-25 & 2025-26, Maitreyi College, University of Delhi

Google site: <https://sites.google.com/view/drmeenayadav/home>

## EDUCATIONAL QUALIFICATION:

- Ph.D.
- M.Sc. (Zoology) (Gold Medalist): First position in M.Sc. Zoology in the M.S.U. Baroda (Prof. J.C. George Gold Medal)
- NET-JRF (CSIR-UGC)

**Specialization:** Reproductive Biology

**Research Interests:** Reproductive Biology; Biocontrol; Public Health; Medicinal Plants, NPs

**Total Teaching Experience:** 16+ years (as on 01.05.2024)

**Research Experience:** 12+ years

## SCHOLARSHIP & MEDALS/AWARDS:

1. Received **Junior Research Fellowship (JRF)** after clearing joint **CSIR-UGC NET-JRF** exam (Dec, 2001).
2. Received **Prof. J. C. George Gold Medal** for standing first in MSc. (Zoology) at M. S. University of Baroda, 2002
3. Received **Dr. M.S. Patel Post-Graduate Scholarship** for securing highest number of marks at MSc. (Previous) Zoology, 2001

4. Received **Dr. M.S. Patel prize**, for securing highest number of marks at BSc. Zoology (2000).
5. **First prize** in poster presentation at National Symposium and Awareness Programme on Life Style and Reproductive Health Challenges at Daulat Ram College, University of Delhi; March 29, 2017.
6. **Third prize** in poster presentation at National Symposium on 'Man made diseases: An Urban Menace' organized by Zoology department, Maitreyi College, University of Delhi, on 11-12 February, 2016. Title of paper: Validation and Comparison of Antioxidant Activities of Selected Medicinal Plants
7. **Second prize** in paper presentations in Equinox 2024. Organized by Centre for Research, Maitreyi College, University of Delhi, Sep 4-6, 2024.

## RESEARCH PUBLICATIONS

1. Influence of administration of FGF-2 and antiFGF-2 on the nucleic acids and protein profiles of the regenerating tail of northern house gecko *Hemidactylus flaviviridis*. *Journal of Cell and Tissue Research*, 2008, 8(3), 1557-1563.
2. Influence of FGF-2 on the antioxidant status in tissues during various stages of tail regeneration in the northern house gecko, *Hemidactylus flaviviridis*. *Journal of Cell and Tissue Research*, 2010, 10(1), 2091-2100.
3. Influence of extraneous FGF-2 and its antagonist antiFGF-2, on the progress of tail regeneration in *Hemidactylus flaviviridis*. *Indian Journal of Fundamental and Applied Life Sciences*, 2012, 2 (2), 164 -172.
4. Exogenous administration of EGF augments nucleic acid biosynthesis and cell proliferation in the regenerating tail of wall lizard. *European journal of Experimental Biology*, 2014, 4 (2), 113-123.
5. Effect of various solute concentrations on the membrane permeability of RBCs in human blood. *Journal of cell and Tissue Research*, 2015, 15 (2), 4943-4947.
6. Pedigree Analysis of inheritance of hazel eye color in humans in North India. *DU Journal of Undergraduate research and Innovation*, 2015, 1(3), 75-84.
7. Implications of flouride Toxicity on the male reproductive system: A review. *Journal of Mountain research*, 2016, 11, 1-7.
8. Significance of FGF-2 during tail regeneration in lizards: A review. *Journal of Cell and Tissue Research*, 2017, 17(2), 6155-6158.
9. Morphological changes in human RBCs due to exposure to selected medicinal plant leaf extracts in-vitro. *International Journal of Pharmaceutical Sciences and Research*, 2018, 9(6), 1000-06.
10. Cognizance about Menstruation among Urban Young Women of Delhi-NCR: A Socio-Cultural Perception. *Journal of Basic and Clinical Reproductive Sciences*, 2018, 7(1), 177-182.
11. Menstrual Cycle and the Misconceptions Associated with It among Young Women in Delhi-NCR, India. *International J Health Sciences and Research*, 2018, 8(4), 185-191.

12. Foraging behavior of predaceous ladybird beetles: A review. *European Journal of Environmental Sciences*, 2018, 8(2), 102-108  
<https://doi.org/10.14712/23361964.2018.14> **Impact factor (2023): 0.8 (JCR)**
13. Sodium fluoride: suggestive role in wound healing and cell proliferation with respect to regeneration. *European J Biological Research*, 2018, 8(3), 131-137
14. Influence of the Homeopathic Medicine, Arsenicum album, on Selected Biochemical Parameters of Avian and Mammalian Blood in vitro. *Vantage: Journal of Thematic Analysis*, 2020, 1(1), 136-146.
15. Understanding the epidemiology of COVID-19. *European Journal of Biological Research*, 2020, 10(2), 105-117. <http://dx.doi.org/10.5281/zenodo.3822115>
16. Effects of leaf extracts of selected medicinal plants on blood against hypotonic solution by measuring optical density: An in vitro study. *Indian Journal of Experimental Biology*, 2020, 58(6), 420-425. <http://nopr.niscair.res.in/handle/123456789/54446> **Impact factor (2023): 0.5 JCR**
17. Antennal morphology and sensilla of the predacious ladybirds, *Menochilus sexmaculatus* and *Propylea dissecta*. *European Journal of Environmental Sciences*, 2020, 10(2), 124-132. <https://doi.org/10.14712/23361964.2020.14>
18. Diversity of predaceous Coccinellid beetles (Coleoptera: Coccinellidae) in Uttarakhand, North India. *Journal of Mountain Research*, 2020, 15, 7-20.
19. Post-menopausal symptoms and its management by women in Delhi-NCR. *Indian Journal of Gender Studies*, 2021, 28(2), 262-275.  
<https://doi.org/10.1177%2F0971521521997966> **Impact factor (2023): 0.3 JCR**
20. Functional morphology of mouthparts and antennal sensillae of two co-generic aphidophagous ladybirds. *International Journal of Tropical Insect Science*, 2022, 42, 2531-2546. <https://doi.org/10.1007/s42690-022-00780-z> **Impact factor (2023): 1.2 JCR**
21. Understanding the genetic, molecular, and cellular basis of ageing as the biggest risk factor of Alzheimer's disease. *European Journal of Biological Research*, 2022, 12, 62-76. <http://dx.doi.org/10.5281/zenodo.6323799>
22. Assessment of Status, Awareness, and Attitude Associated with Childhood Immunization in Delhi – NCR, India. *Asian Pacific Journal of Health Sciences*, 2022, 9(3), 1-6. <https://doi.org/10.21276/apjhs.2022.9.3.09>
23. Evaluation of TiO<sub>2</sub> Nanoparticles Physicochemical Parameters Associated with Their Antimicrobial applications. *Indian Journal of Microbiology*, 2022, 62(3), 338-350.  
<https://doi.org/10.1007/s12088-022-01018-9> **Impact factor (2024): 1.6**
24. Reproductive Behaviour of Predaceous Ladybirds (Coleoptera: Coccinellidae): A Review. *International Journal of Tropical Insect Science*, 2022, 42, 3083-3095.  
<https://doi.org/10.1007/s42690-022-00846-y> **Impact factor (2023): 1.2 JCR**
25. Plant-derived Molecules for the Treatment of Tuberculosis: A Review. *Iraqi Journal of Pharmaceutical Sciences*, 2022, 31(2), 2022. <https://doi.org/10.31351/vol31iss2pp1-13>

26. Enhancing antibacterial properties of bacteriocins using combination therapy. *Journal of Applied Biology and Biotechnology*, 2023 11(01), 232-243. <http://dx.doi.org/10.7324/JABB.2023.110206>
27. Current Eco-friendly and Sustainable Methods for Heavy Metals Remediation of Contaminated Soil and Water: Special Emphasis on Use of Genetic Engineering and Nanotechnology. *Pollution*, 2023, 9(3), 1028-1048. <https://doi.org/10.22059/poll.2023.345177.1522> **Impact factor (2024): 1.1**
28. Knowledge, attitude and practices of sex and sexuality among young adults in Delhi-NCR. *Indian Journal of Health, Sexuality and Culture*, 2023, 9(2), 9-23. [https://iisb.org/pdf/december2023/9 Knowledge attitude and practices of sex and sexuality among young adults in Delhi NCR.pdf](https://iisb.org/pdf/december2023/9%20Knowledge%20attitude%20and%20practices%20of%20sex%20and%20sexuality%20among%20young%20adults%20in%20Delhi%20NCR.pdf)
29. Role of relatedness, food quality and hunger on the avoidance of kin-cannibalism in higher instar of coccinellids. *Arthropod-Plant Interactions*, 2024, <http://dx.doi.org/10.1007/s11829-024-10047-8> **Impact factor (2024): 1.3**
30. Dynamics of intraguild predation in coccinellids: molecular insights (Jan 28, 2025). *Arthropod Plant Interactions*, 2025, 19, 21. <https://doi.org/10.1007/s11829-024-10128-8> **Impact factor (2024): 1.3**
31. *Aegle marmelos* (L.): An underutilized plant with incredible pharmaceutical and nutritional potential (March, 2025). *Food Chemistry Advances*, 6, 100935. <https://doi.org/10.1016/j.focha.2025.100935> **Cite Score (2024): 5.5**
32. Nanoparticle-facilitated targeted nutrient delivery in plants: Breakthroughs and mechanistic insights. *Plant Nano Biology*, May 1, 2025; 100156. <https://doi.org/10.1016/j.plana.2025.100156> **Impact Factor (2025): 7.7 JCR**

## BOOKS PUBLISHED

1. Brototi Roy and Meena Yadav **(2018)**: *Fundamentals of practical Genetics and Biotechnology* by Platinum publishers, Kolkata, India. ISBN no. 978-81-89874-391
2. Meena Yadav and Brototi Roy (Eds.) **(July, 2023)**. *Human Reproductive Biology and Health*, Pearson India. ISBN: 978-93-560-6632-8.

## CHAPTERS PUBLISHED IN BOOKS

1. 'Urban lifestyle changes and their influence on fertility' in Book titled "Reproductive health in India: Concerns and Awareness" published by Enriched Publications Pvt Ltd, Delhi, page 1-13. **2017**. ISBN No.: 978-819346343-7
2. Meena Yadav **(2020)**. Health challenges and responses to ageing women. In: Shankardass M.K. (eds) *Ageing Issues and Responses in India*. Springer, Singapore; pp: 185-206. Online ISBN: 978-981-15-5187-1. [https://doi.org/10.1007/978-981-15-5187-1\\_12](https://doi.org/10.1007/978-981-15-5187-1_12)

3. Meena Yadav **(2021)**. Health Concerns of Women in Later Years: A Review of Research, Policy and Programmes in India. In: Ageing Issues in India: Practices, Perspectives and Policies. Shankardass MK (Ed.). Vol. 32, pp. 231-244. Springer, Singapore. Online ISBN: 978-981-16-5827-3. [https://doi.org/10.1007/978-981-16-5827-3\\_13](https://doi.org/10.1007/978-981-16-5827-3_13)
4. Meena Yadav **(2021)**. Health and Well-Being in Older Women: A Universal Issue. In: Shankardass M.K. (eds) Older Women and Well-Being: A global Perspective. Pp. 71-94. Springer, Singapore. Online ISBN: 978-981-16-4605-8. [https://doi.org/10.1007/978-981-16-4605-8\\_5](https://doi.org/10.1007/978-981-16-4605-8_5)
5. Travel to the past in entomology in India. In: Multidisciplinary perspectives in educational and social sciences III. KAHYAOĞLU M (Ed.). IKSAD Publishing House, Turkey, pp. 105-120. **2022**. ISBN: 978-625-8323-15-3.
6. Insects in the modern world. In: Resilient Agriculture with the help of crop diversification. BİLGİN FD (Ed.). IKSAD Publishing House, Turkey, pp. 83-102. **2022**. ISBN: 978-625-8323-39-9.
7. Meena Yadav **(2022)**. Innate Immunity. Taylor and Francis, CRC Press. <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003286424-2/innate-immunity-meena-yadav>
8. Meena Yadav **(2022)**. Adaptive Immunity. In An Interplay of cellular and molecular components of Immunology. IK Singh and Poonam Sharma (Eds.). Taylor and Francis, CRC Press. <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003286424-3/adaptive-immunity-meena-yadav?context=ubx>
9. Histological study of thymus, spleen and lymph nodes through slides/ photographs. In: Essentials of Immunology Laboratory Manual. Prestige Publishers, Delhi. **2023**. ISBN: 978-81-958057-4-7 (HB). pp 11-21
10. Preparation of stained blood film to study various types of blood cells. In: Essentials of Immunology Laboratory Manual. Prestige Publishers, Delhi. **2023**. ISBN: 978-81-958057-4-7 (HB) pp 22-31
11. Cell counting and viability test from splenocytes of farm bred animals/cell lines. In: Essentials of Immunology Laboratory Manual. Prestige Publishers, Delhi. **2023**. ISBN: 978-81-958057-4-7 (HB). pp 50-59.
12. ELISA (through dot-ELISA method). In: Essentials of Immunology Laboratory Manual. Prestige Publishers, Delhi. **2023**. ISBN: 978-81-958057-4-7 (HB). pp 60-70
13. Immunoelectrophoresis. In: Essentials of Immunology Laboratory Manual. Prestige Publishers, Delhi. **2023**. ISBN: 978-81-958057-4-7 (HB). pp71-79
14. Plant and microbial nanotoxicology. In: Nanomaterials and plant-microbe interactions: An environmental perspective. Sahadevan Seena, Akhilesh Rai and Santosh Kumar (Eds.). Academic Press, Elsevier Science. **2023**. eBook ISBN: 9780323908320. 0323906192, 9780323906197. <https://doi.org/10.1016/B978-0-323-90619-7.00012-6>
15. Nanomaterials in the environment: Impacts and challenges. In: Nanomaterials and plant-microbe interactions: An environmental perspective. Sahadevan Seena, Akhilesh Rai and Santosh Kumar (Eds.). Academic Press, Elsevier Science. **2023**. eBook ISBN:

9780323908320. 0323906192, 9780323906197. <https://doi.org/10.1016/B978-0-323-90619-7.00013-8>

16. Sex steroids: Steroidogenesis and Metabolism. In Human reproductive Biology, Meena Yadav and Brototi Roy (Eds.). Pearson INDIA. **2023**. ISBN: 978-93-560-6632-8
17. Hormonal imbalance and disorders of the reproductive system. In Human reproductive Biology, Meena Yadav and Brototi Roy (Eds.). Pearson INDIA. **2023**. ISBN: 978-93-560-6632-8
18. Lactation. In Human reproductive Biology, Meena Yadav and Brototi Roy (Eds.). Pearson INDIA. **2023**. ISBN: 978-93-560-6632-8.
19. Cancers of the human reproductive system. In Human reproductive Biology, Meena Yadav and Brototi Roy (Eds.). Pearson INDIA. **2023**. ISBN: 978-93-560-6632-8.
20. Global invasion of *Harmonia axiridis*: current status. In: International Cankaya Scientific Studies Congress. IKSAD Publications (Ankara-TÜRKİYE). **2023**. ISBN: 978-625-8254-28-0. [https://2dc40e33-085f-40e0-8172-9a1f898c1942.filesusr.com/ugd/d0a9b7\\_4ce145c092534087b00364ba95ac256f.pdf](https://2dc40e33-085f-40e0-8172-9a1f898c1942.filesusr.com/ugd/d0a9b7_4ce145c092534087b00364ba95ac256f.pdf)
21. Egg Cannibalism and Intraguild Predation of *Coccinella* species by an aphidophagous coccinellid, *Coelophora saucia* (Mulsant). In: International Cankaya Scientific Studies Congress. IKSAD Publications (Ankara-TÜRKİYE). **2023**. ISBN: 978-625-8254-28-0. [https://2dc40e33-085f-40e0-8172-9a1f898c1942.filesusr.com/ugd/d0a9b7\\_4ce145c092534087b00364ba95ac256f.pdf](https://2dc40e33-085f-40e0-8172-9a1f898c1942.filesusr.com/ugd/d0a9b7_4ce145c092534087b00364ba95ac256f.pdf)
22. Physiology of male reproduction. In Human reproductive Biology, Meena Yadav and Brototi Roy (Eds.). Pearson INDIA. **2023**. ISBN: 978-93-560-6632-8.
23. Human population growth and dynamics. In Human reproductive Biology, Meena Yadav and Brototi Roy (Eds.). Pearson INDIA. **2023**. ISBN: 978-93-560-6632-8.
24. Reproductive Health and family welfare in India. In Human reproductive Biology, Meena Yadav and Brototi Roy (Eds.). Pearson INDIA. **2023**. ISBN: 978-93-560-6632-8.
25. Impact of heavy metals contamination on human health. In: Heavy metal toxicity: Human health impact and mitigation strategies. Nitish Kumar (Ed.). **2024**. ISBN: 978-3-031-56642-4. <https://link.springer.com/book/10.1007/978-3-031-56642-4>
26. Insects in complementary and alternative medicine: Current status and future scope **(2024, Dec)**. In: International studies and evaluations in the field of biology. ISBN 978-625-5955-75-3. Serüven Yayınevi / Serüven Publishing, Türkiye . 75-109.
27. Gut Microbiome in Predaceous Coccinellids **(2024, Dec)**. In: New Current Topics in Biological Sciences. ISBN 978-625-372-398-9. BIDGE Publications, Türkiye. 20-38

## Conference Proceedings

1. Meena Yadav\* and Simran Goel (2017). Disposable sanitary pads and sustainable environment. Yearly Academic Journal, Kalindi College, Proceedings of Saksham Mahila, saksham samaj: ek vaigyanik drishtikon – A paradigm shift towards empowerment of women (NSSC-2017), 2017; 88-96. Full paper in Conference proceedings ISSN No. 2348-9014

## EDITORIALS:

- Gopi D Tripathy, Brototi Roy and Meena Yadav **(Oct, 2022)**. On the idea of a university. Vantage: Journal of Thematic Analysis, 3(2), 1-4. <https://doi.org/10.52253/vjta.2022.v03i02.01>
- Gopi D Tripathy, Brototi Roy and Meena Yadav **(Apr, 2022)**. Food: The driver of sustainable agriculture. Vantage: Journal of Thematic Analysis, 3(1), 1-6. <https://doi.org/10.52253/vjta.2022.v03i01.01>
- Gopi D Tripathy, Brototi Roy and Meena Yadav **(Oct, 2021)**. Sustainable Agriculture: Negotiating Tradition and modernity. Vantage Journal of Thematic Analysis, 2(2):1-6. <https://doi.org/10.52253/vjta.2021.v02i02.01>

## REVIEWER IN JOURNALS

1. Frontiers in Physiology
2. Plant nano Biology
3. The Canadian Entomologist
4. Indian Journal of Clinical Biochemistry
5. Inorganic and Nano Metal Chemistry
6. Cogent Food and Agriculture
7. Journal of Natural Pesticide Research
8. Asian Journal of Pediatric Research
9. Journal of Bioscience and Biotechnology Discovery
10. Journal of Ageing Studies
11. Canadian Journal of Zoology

## E-CONTENT DEVELOPED

### 1. E-CHAPTERS PUBLISHED by Institute of Life Long Learning, University of Delhi under MHRD project (2015-16)

- Transgenic animals: Applications. ISSN 2349-154X,
- The early development of Chick: Cleavage & gastrulation. ISSN 2349-154X
- The early development of Xenopus: Cleavage & gastrulation. ISSN 2349-154X
- The early development of Xenopus: Embryonic induction and organizers. ISSN 2349-154X
- The early development of C. elegans. ISSN 2349-154X,
- Fertilization –I. ISSN 2349-154X,
- Fertilization –II. ISSN 2349-154X,
- Implantation and placentation: Structure, types and physiology of placenta. ISSN 2349-154X
- Immunoglobulins. ISSN 2349-154X
- Enzymes: Classification and catalysis. ISSN 2349-154X

- Enzymes: Michaelis-Menten equation, enzyme inhibition and regulation. ISSN 2349-154X

## **2. E-chapters for ePGPathshala [An MHRD project under National Mission on Education through ICT (NME-ICT), Government of India] 2018**

- Paper: P-06. Animal Physiology.  
Module name: M-16 Nature of hormone receptors  
<https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=35>
- Paper: P-06. Animal Physiology.  
Module name: M-19 Pituitary hormones  
<https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=35>
- Paper: P-06. Animal Physiology.  
Module name: M-17: Neuroendocrine feedback and response to stimuli  
<https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=35>

## **3. 2020-21 CIET, NCERT (SWAYAM) [Central Institute of Educational technology (CIET), NCERT] (2020-21)**

- Module 33: Endocrine glands in humans: General Physiology Part 1**  
[https://ciet.nic.in/swayam\\_biology02\\_module33.php](https://ciet.nic.in/swayam_biology02_module33.php)  
[https://ciet.nic.in/moocspdf/Biology02/kebo\\_22201\\_eContent.pdf](https://ciet.nic.in/moocspdf/Biology02/kebo_22201_eContent.pdf) (May 10, 2021)
- Module 34: Endocrine glands of Reproductive System; Endocrine Cells and Tissues in humans Part 2**  
[https://ciet.nic.in/swayam\\_biology02\\_module34.php](https://ciet.nic.in/swayam_biology02_module34.php)  
[https://ciet.nic.in/moocspdf/Biology02/kebo\\_22202\\_eContent.pdf](https://ciet.nic.in/moocspdf/Biology02/kebo_22202_eContent.pdf) (May 10, 2021)
- Module 35: Mechanism of hormone action Part 3**  
[https://ciet.nic.in/swayam\\_biology02\\_module35.php](https://ciet.nic.in/swayam_biology02_module35.php)  
[https://ciet.nic.in/moocspdf/Biology02/kebo\\_22203\\_eContent.pdf](https://ciet.nic.in/moocspdf/Biology02/kebo_22203_eContent.pdf) (May 10, 2021)

## **RESEARCH PROJECTS COMPLETED**

### **Projects under Annual Research Programme (ARP) of the Centre For Research (CFR), Maitreyi College, University Of Delhi**

- Carbonated Soft Drinks Consumption among adolescents and young adults In Delhi: Is there a need to change the habits of intake? (2020-21).
- Evaluation of soil fertility in Different parts of Delhi-NCR: Special emphasis on ant-nests and their effects on soil fertility (2021-22).
- Therapeutic role of phytochemicals in fish (2023-24)

### **Projects under Summer Internship Programme (SIP) of CFR**



1. **2018:** Effect of selected medicinal plant leaf extracts on the blood cells. (SIP Jul-Aug, 2018). (Bagged 3<sup>rd</sup> prize in the presentations of projects). SIP project
2. **2019:** To study the effect of selected homeopathic medicine on mammalian blood *in vitro* (May-Jul, 2019). SIP Project
3. **2020:** Psycho-social Impact and Changes in Sleep Quality during COVID-19 Pandemic: A cross-sectional study in India (May-July, 2020). SIP project
4. **2021:** Ladybird beetles as biocontrol agents: Their contribution in sustainable agriculture (May-Jul, 2021). (Bagged 3<sup>rd</sup> prize in the presentations of projects). SIP project
5. **2022:** Knowledge, awareness and practice of contraceptives among women of reproductive age group in Delhi-NCR' (May 2022-July 2022). SIP project
6. **2025:** SIP/24-25/70: Study of coccinellidae Diversity at Maitreyi College and Urban Greens around it
7. **2025: SIP/24-25/71:** Revisiting Lactational Amenorrhea: A Study Among Nursing Women in Urban India: Delhi-NCR.
8. **2025: SIP/24-25/72:** Study on impact of lifestyle on reproductive health of college going students residing in hostels and PGs in Delhi-NCR.

#### **PROJECTS UNDER STAR COLLEGE SCHEME of Department of Biotechnology, Govt. of India (2014-2017)**

1. Pedigree Analysis of inheritance of hazel eye colour in humans in North India (2014-15).
2. Effect of various solute concentrations on the membrane permeability of RBCs in human blood (2014-15).
3. Effect of selected medicinal plant extracts (Tulsi: *Ocimum tenuiflorum*, Amla: *Phyllanthus emblica* and Neem: *Azadirachta indica*) on the morphology of RBCs (2015-16).
4. Awareness about menstruation among urban young adults of Delhi-NCR. (2016-17).
5. Adulteration study in various oil samples collected from Delhi-NCR (2016-17).
6. To study the influence of extracts of medicinal plants ((Tulsi: *Ocimum tenuiflorum*, Amla: *Phyllanthus emblica* and Neem: *Azadirachta indica*) on biochemical parameters of avian blood (2016-17).

#### **ADMINISTRATIVE ACTIVITIES**

1. **Founding Member and Managing Editor:** Vantage: Journal of Thematic Analysis (A multidisciplinary publication of Centre for Research, Maitreyi College, University of Delhi) (2020 onwards, since its inception)
2. **Founding Member and Co-Convenor:** Centre for Research, Maitreyi College (2018 onwards, since its inception)

3. **Coordinator (2025-26):** Internal Quality Assurance Cell (**IQAC**), Maitreyi College
4. **Coordinator (2024-25):** Internal Quality Assurance Cell (**IQAC**), Maitreyi College
5. **Member, Governing Body**, Maitreyi College (2019-20)
6. Actively discharged my duties as member of various **Staff Council Committees** over the years: Advisory Committee for Professional Grooming (ACPG); Purchase Committee; Admission Committee; Time Table Committee; Workload Committee; Short Term Courses Committee; Magazine Committee; Website Maintenance Committee; E-content development Committee; Office Stock verification; Nanotechnology Committee; Sports; Discipline; Spic Macay.
7. **Teacher-in-Charge**, Zoology department: **2012-13** and **2018-19**
8. **Co-Convenor, Criterion 3 (C-3), NAAC** (1st cycle: 2015-16; 2nd cycle: 2021-22)
9. **Member, screening committee** for appointment of permanent faculty in Zoology department and Computer Science department, 2014-15.
10. **Member, screening committee** for appointment of permanent faculty in Zoology Department, Maitreyi College; 2019-20.
11. **Member, Advisory Committee of Star College Scheme** funded by Department of Biotechnology, Government of India, New Delhi (2015-2017).

#### **ORGANIZING MEMBER: SYMPOSIUM/WORKSHOPS/OTHER COLLEGE EVENTS ETC.**

1. **Convenor: Online National Faculty Development Programme (FDP)** on "Reinventing pedagogy in the age of AI: Methods, Approaches and Perspectives" Jan 16-22, 2025. In collaboration with GAD-MMTTC, SGTB Khalsa College, University of Delhi.
2. **Core team Member: National NEP orientation & sensitization programme.** (Dec 2-11, 2024). In Collaboration with GAD-MMTTC, SGTB Khalsa College, University of Delhi
3. **Convenor: Equinox 2024:** The 4th Annual International Conference, organized by Centre for Research, Maitreyi College under the aegis of Vantage: Journal of Thematic Analysis and IQAC, on Sep 4-6, 2024. Theme 'Systems of Knowledge in India: Moving towards self-reliance'.
4. **Member, Organising Committee:** Organized Student presentation session Avlokan 2023 on Nov 3, 2023
5. **Convenor: Equinox 2023:** The Annual International Conference, organized by Centre for Research, Maitreyi College on Aug 23-25, 2023. Theme 'Research, development and Social transformation'.
6. **Member, Organising Committee:** Orientation and Research and Methodology workshop on March 28, 2023.

7. **Member, Organising Committee:** Organized Special Lecture by Prof. Balram Singh on Use of Yoga to develop Scientific Epistemology for integrative health. Jan 17, 2023 at Maitreyi College
8. **Convenor: Special lecture by Prof. Richard Davidson, *Founder and Director Centre for Healthy Minds, University of Wisconsin-Madison, USA*** on 7th Dec, 2022 at Maitreyi College in hybrid mode.
9. **Convenor: Avlokan 2022** on Sep 28, 2022. (SIP 2021-22)
10. **Convenor: Equinox 2022:** The Annual International Conference, organized by Centre for Research, Maitreyi College on Aug 11-13, 2022. Theme 'The Expanding Frontiers of Knowledge'.
11. **Member, Organizing Committee,** in the National Workshop for School students on 'Biology made easy using computers' organized by zoology department, Maitreyi College from Sep 1-5, 2021.
12. **Convenor: Equinox 2021:** The Annual International Conference, organized by Centre for Research, Maitreyi College on Aug 12-14, 2021. Theme: Sustainable agriculture: Negotiating Tradition and Modernity
13. **Member, Organizing Committee:** "Training Workshop for Summer Internship Programme 2020-21", CFR, Maitreyi College. May 20, 2021.
14. **Member, Organizing Committee:** National webinar on 'COVID-19 and relevance of CT Scan", May 23, 2021. Zoology dept, Maitreyi College
15. **Member, Organizing Committee:** Training Workshop for Summer Internship Programme (2020-21), Centre for Research, Maitreyi College. May 20, 2020
16. **Member, Organizing Committee:** Certificate course for students on 'ICT in digital Learning and Data Management'. Organized by Zoology department from January 11 to Feb 20, 2021.
17. **Member, Organizing Committee:** Presentations of Summer Internship Projects under CFR and ACPG on Oct 7,9 and 10, 2020 (2020-21).
18. **Member, Organizing Committee:** International webinar Series on "Vector-Borne Diseases: Current Scenario" organized by the Zoology Department, under the aegis of IQAC, Maitreyi College, University of Delhi from 30 June – 1 July, 2020.
19. **Member, Organizing Committee:** National Workshop on Web Search, data analysis and Presentation tools. Organized by Zoology dept, Maitreyi College, Jul 22-28, 2020
20. **Member, Organizing Committee:** Presentations of Summer Internship Projects under CFR and ACPG (2019-20).
21. **Member, Organizing Committee:** National Conference on 'Biotechnology in present era: Impact on human life and environment' organized by Maitreyi College in collaboration with Department of Biotechnology, Govt of India (Under DBT-CTEP Programme) on Aug 23, 2019.
22. **Member, Organizing Committee:** Presentations of Summer Internship Projects under ACPG 2018-19
23. **Member, Organizing Committee:** Presentations of Summer Internship Projects under ACPG (2017-18)

24. **Member, Organizing Committee:** Interdisciplinary workshop for laboratory staff 'Developing Laboratory Skills' (14-16 Dec, 2016)
25. **Member, Organizing Committee:** Two-day National Symposium on "Man made diseases: An Urban Menace" at Maitreyi College held on February 11-12th, 2016.
26. **Member, Organizing Committee:** Seven-day National Workshop for undergraduate students on 'Understanding dynamics of Life Sciences: Concepts & Techniques' from July 6-10th, 2015
27. **Member, Organizing Committee:** Seven-day National Workshop for college teachers on 'Advanced Biological Techniques' from Dec 2-8th, 2015.
28. **Member, Organizing Committee:** One day symposium on "Recent Trends in Biology" at Maitreyi College on 25th February, 2015

## RESOURCE PERSON

1. Resource Person: Research Methodology: Report writing. In: Training workshop for Summer Internship Programme 2020-21. May 20, 2021
2. Resource Person, National Workshop for School students on 'Biology made easy using computers'. Sep 1-5, 2021
3. Resource Person, Students' hands-on workshop on 'Basic Laboratory techniques' Aug 3, 2022): Use of micropipettes and their handling in laboratory.
4. Resource person at Student's Hands-on Workshop on basic laboratory techniques organized by Department of Zoology, Maitreyi College on August 3, 2022
5. Resource Person in National Workshop for School students on 'Biology made easy using computers' organized by zoology department, Maitreyi College from Sep 1-5, 2021.
6. National webinar on 'COVID-19 and relevance of CT Scan", May 23, 2021. Zoology dept, Maitreyi College
7. Resource person at "Training Workshop for Summer Internship Programme 2020-21", CFR, Maitreyi College. May 20, 2021.
8. Resource person at Certificate course for students on 'ICT in digital Learning and Data Management'. Organized by Zoology department from January 11 to Feb 20, 2021.
12. External Reviewer for the Technical Session-VII of Three Day International Conference on Contribution of Modern Poets in Sanskrit Literature jointly organised by Department of Sanskrit, Maitreyi College, University of Delhi & Department of Sanskrit, Rambachan Singh Government Girls Degree College, Bagali Pijara, Mau, UP held from 28-30, November, 2020
13. Resource person: National Workshop on Web Search, data analysis and Presentation tools. Organized by Zoology dept, Maitreyi College, Jul 22-28, 2020
14. Resource person in Interdisciplinary workshop for laboratory staff 'Developing Laboratory Skills' (14-16 Dec, 2016)
15. Resource person in the National Workshop for teachers on 'Advanced Biological Techniques' organized by Maitreyi College from 2-8 Dec, 2015.

## PAPERS PRESENTED AT INTERNATIONAL AND NATIONAL CONFERENCES

1. Pedigree analysis of inheritance of hazel eye color in humans in North India. One day symposium 'Recent Trends in Biology' organized by Zoology department, Maitreyi College, University of Delhi, on 25<sup>th</sup> February, 2015.
2. Effect of various solute concentrations on the membrane permeability of RBCs in human blood. National Symposium on Environmental Contamination and Public health organized by Zakir Husain Delhi College on 24<sup>th</sup> August, 2015.
3. Urbanization and Menstrual health; National Symposium on Lifestyle disorders : Understanding the molecular mechanism, organized by Shivaji College from 28-29<sup>th</sup> January, 2016.
4. Impact of Lifestyle on fertility. National symposium on reproductive health in India: Concept and awareness, organized by Deshbandhu College, University of Delhi on 12<sup>th</sup> February, 2016.
5. Menstrual health in young adults in Delhi-NCR. National Symposium on 'Man made diseases: An Urban Menace' organized by Zoology department, Maitreyi College, University of Delhi, on 11-12 February, 2016.
6. Effect of Extracts of Medicinal Plants on Membrane of Human RBC's. National Symposium on 'Man made diseases: An Urban Menace' organized by Zoology department, Maitreyi College, University of Delhi, on 11-12 February, 2016.
7. Validation and Comparison of Antioxidant Activities of Selected Medicinal Plants. National Symposium on 'Man made diseases: An Urban Menace' organized by Zoology department, Maitreyi College, University of Delhi, on 11-12 February, 2016. Won 3<sup>rd</sup> prize
8. Regenerative medicine, tissue engineering and nanoscience. National Conference on Nanoscience-Opportunities & Challenges organized by Chemistry department, Maitreyi College, University of Delhi, Feb 19-20, 2016.
9. Environmental pollution abatement: A biotechnological perspective. National Conference on Environmental concerns of 21<sup>st</sup> century: Indian and global context. Zakir Hussain Delhi College (Evening), University of Delhi; Mar 21-22, 2016.
10. Immune system in plants: Role of Harpin proteins. National Symposium on TRENDS IN RESEARCH AND INNOVATIONS IN LIFE SCIENCES AT UNDERGRADUATE LEVEL, organized by Deen Dayal Upadhyay (DDU) College, University of Delhi, Mar 30, 2016
11. Detection of common adulterants in mustard oil in different samples of Delhi-NCR and their effect on health. (Poster). *'International Conference and Outreach Program on Environment & Ecology: Sustainability and Challenges'* organized by Sri Venkateswara College in Jan 4-6, 2017
12. Effect of environment on women reproductive health. *'International Conference and Outreach Program on Environment & Ecology: Sustainability and Challenges'* organized by Sri Venkateswara College in Jan 4-6, 2017

13. Sanitary Pads: Friends or Foes? National Symposium and Awareness programme on Life Style and Reproductive Health Challenges at Daulat Ram College, University of Delhi. (March 29, 2017) (Won first prize in the poster).
14. Isolation of phylloplane bacteria to manage fungi, *Phytophthora infestans* in India. 2<sup>nd</sup> National Conference on 'Environmental Concerns of 21<sup>st</sup> Century: Indian and Global Context' (March 29, 2017): at ZHDC (evening)
15. Remediation of Heavy Metal contaminated Soil and Water using Genetic Engineering. 2<sup>nd</sup> National Conference on 'Environmental Concerns of 21<sup>st</sup> Century: Indian and Global Context' (March 29, 2017) at ZHDC (evening), University of Delhi.
16. Disposable sanitary pads & Sustainable Environment. (Poster). National Seminar on 'Saksham Mahila, Saksham Samaj: Ek Vaigyanik Drishtikon – A paradigm Shift towards empowerment of Women (NSSC-2017) at Kalindi College from February 3-4, 2017
17. Medical Biotechnology and Treatment of Alzheimer's Disease: A New Hope. National Conference on Biotechnology and Environment (NCOB-2017) at Jamia Milia Islamia, Delhi (Apr 10-11, 2017)
18. Use of Genetically Modified Microorganisms for handling Oil Spills. National Conference on Biotechnology and Environment (NCOB-2017) at Jamia Milia Islamia, Delhi (Apr 10-11, 2017)
19. Adulteration testing of mustard oil in different samples collected from Delhi-NCR (2017). National Conference on Interdisciplinarity: Prospects and Challenges at Maitreyi College (Apr 5-7, 2017)
20. Correlation between education and taboos associated with menstruation in Delhi-NCR (2017). National Conference on Interdisciplinarity: Prospects and Challenges at Maitreyi College (Apr 5-7, 2017)
21. Changes in the morphology of human RBCs in various blood groups when exposed to medicinal plant extracts (2017). National Conference on Interdisciplinarity: Prospects and Challenges at Maitreyi College (Apr 5-7, 2017)
22. Influence of sodium fluoride on tail regeneration in *Hemidactylus flaviviridis* (2018). International symposium of ciliate biology, Apr 4-6, 2018 at India Habitat Centre, Lodhi road. (Jointly organized by ANDC, Maitreyi college and Khalsa College)
23. Detection of common adulterants in mustard oil from the samples collected from Delhi (2018). International symposium of ciliate biology, Apr 4-6, 2018 at India Habitat Centre, Lodhi road. (Jointly organized by ANDC, Maitreyi college and Khalsa College)
24. Influence of some medicinal plant leaf and seed extracts on the homeostasis of erythrocytes *in vitro*. National Conference on 'Trends in Life Sciences & Biotechnology: Innovative paradigms', held at Maitreyi College from 19-20 Feb, 2019.
25. Menopausal symptoms and coping strategies: A cross sectional study in Delhi-NCR at Global Conference on reproductive health with focus on occupational, environmental and lifestyle factors, organized by ISSRF at Delhi from 22-24 Feb, 2019.
26. Impact of environmental parameters on childhood asthma in Delhi-NCR. National seminar on 'Use of scientific and technical terminologies in sustainable environment

- development, its challenges, computational analysis and opportunities, organized by Gargi College and Commission for Scientific and technical terminology (CSTT), MHRD, Govt. of India from 14-16 March, 2019.
27. Microbes: A novel alternative approach for degrading plastics. National seminar on 'Use of scientific and technical terminologies in sustainable environment development, its challenges, computational analysis and opportunities, organized by Gargi College and Commission for Scientific and technical terminology (CSTT), MHRD, Govt. of India from 14-16 March, 2019.
  28. Career Opportunities in Disaster Management at Two-day's National Seminar on career counseling in dynamic world: Issues and challenges at RHGPG College, Kashipur, Uttarakhand from 19-20 Apr, 2019.
  29. Influence of homeopathic medicine *Arsenicum album* on avian and mammalian blood in vitro (2019). National seminar on Assessment and Accreditation of Best practices in higher education institution under NAAC framework, organised by IQAC, Maitreyi College, University of Delhi from Nov 5-6, 2019.
  30. Morphological changes induced by crude extracts of selected medicinal plants in non-diabetic and diabetic erythrocytes in vitro (2019). National seminar on Assessment and Accreditation of Best practices in higher education institution under NAAC framework, organised by IQAC, Maitreyi College, University of Delhi from Nov 5-6, 2019.
  31. Influence of homeopathic medicine *Arsenicum album* on selected biochemical parameters of blood *in vitro*. International Conference on Natural Products and Human Health-2020 organized by Deshbandhu College from Feb 27-29, 2020 at Community Centre, University of Delhi.
  32. Knowledge and status about childhood immunization among mothers in Delhi-NCR. International Conference on Natural Products and Human Health-2020 organized by Deshbandhu College from Feb 27-29, 2020 at Community Centre, University of Delhi.
  33. 'Online learning during COVID-19: Challenges and Opportunities'. Presented orally at Two-day International Online Conference on 'Teaching-Learning in the time of pandemic: Role of Online Learning' organized by Krishna Kanta Handiqui State Open University, Guwahati, Assam, India in collaboration with Commonwealth Education Media Centre for Asia (CEMCA), New Delhi, India on Apr 21-22, 2020. Registration No.: 3374
  34. 'Status of COVID-19 in India: Impact of lockdown'. Presented orally at International e-conference on 'Sustainable development after COVID-19: Environmental Issues and Challenges' organized by D.N. College, Meerut and Department of Toxicology, C.C.S. University, Meerut on June 1-2, 2020.
  35. 'Ladybird beetles as biocontrol agents: their contribution in sustainable agriculture'. Presented at Equinox 2021: The Annual International conference on 'Sustainable Agriculture: Negotiating Tradition and Modernity' organized by Centre for Research, Maitreyi College from Aug 12-14, 2021
  36. 'Knowledge, awareness and practice of contraceptives among rural and urban women in Delhi-NCR'. Presented at Equinox 2022: The Annual International conference on

'The Expanding Frontiers of Knowledge' organized by the Centre for Research, Maitreyi College from Aug 11-13, 2022.

37. Awareness and perspectives about contraceptives among young males in Delhi-NCR: A cross-sectional study. Presented at Equinox 2023: The Annual International conference on 'Research, development and social transformation' organized by the Centre for Research, Maitreyi College from Aug 23-25, 2023.
38. Psycho-social dynamics and shift in sleep quality: Progressing from COVID-19 pandemic to 2023. Presented at Equinox 2023: The Annual International conference on 'Research, development and social transformation' organized by the Centre for Research, Maitreyi College from Aug 23-25, 2023.
39. Egg Cannibalism and Intraguild Predation of *Coccinella* species by an aphidophagous coccinellid, *Coelophora saucia* (Mulsant). Presented at 2nd International Çankaya Scientific Studies Congress (Hybrid), Ankara, Turkey. 28-29 September 2023
40. Global Invasion of *Harmonia axiridis*: Current Status. Presented at 2nd International Çankaya Scientific Studies Congress (Hybrid), Ankara, Turkey. 28-29 September 2023
41. Energy that matters! Vibrational healing: An emerging therapeutic field. Presented in International Sanskrit Conference 2023, organized by Maitreyi College, University of Delhi, School of Indic Studies, Institute of Advanced Sciences, USA & Council of Indic Studies and Research, Bharat held from 20-22 October, 2023.
42. AEGLE MARMELOS: A LESSER-KNOWN PLANT WITH REMARKABLE THERAPEUTIC AND NUTRITIONAL POTENTIAL. Presented in International Sanskrit Conference 2023, organized by Maitreyi College, University of Delhi, School of Indic Studies, Institute of Advanced Sciences, USA & Council of Indic Studies and Research, Bharat held from 20-22 October, 2023.
43. The temperature anomaly: Resilience of *Heteropneustes fossilis*. Presented in 4th Annual International conference Equinox 2024, organized by Centre for Research, Maitreyi College, University of Delhi from Sep 4-6, 2024.

## RESEARCH PAPER IN A NEWSPAPER ARTICLE

Study finds menstruation taboos in urban India too

Thursday, 10 May 2018 | Archana Jyoti | New Delhi

<https://www.dailypioneer.com/2018/india/study-finds-menstruation-taboos-in-urban-india-too.html>