




Faculty Details (Dr. Madhu Yashpal)

Title	Dr.	First Name	MADHU	Last Name	YASHPAL	
Designation		Assistant Professor				
Address (Office)		Department of Zoology Gargi College (University of Delhi) Siri Fort Road, New Delhi-110 049, INDIA				
Contact No. (Mobile)		+91 9415618899; +91 9415618900				
Email		madhuyashpal@gmail.com ; madhu.yashpal@gargi.du.ac.in				
EDUCATIONAL QUALIFICATIONS						
Degree		Institution			Year	
Ph.D. (Zoology)		Banaras Hindu University, INDIA			2006	
M.Sc. (Zoology)		Dr. Ram Manohar Lohia Avadh University, INDIA			1998	
B.Sc.		Dr. Ram Manohar Lohia Avadh University, INDIA			1996	
Other Qualification		National Eligibility Test (NET)			2001	
CAREER PROFILE						
<ol style="list-style-type: none"> 1. Assistant Professor (October 10, 2015 – Continuing) Department of Zoology, Gargi College (University of Delhi), Siri Fort Road, New Delhi -110 049, INDIA 2. UGC Postdoctoral Fellowship for Women (Designate, 2016-17) Department of Zoology, Banaras Hindu University, Varanasi, INDIA 3. Scientist In Charge, Electron Microscope Facility (August 01, 2014 – October 05, 2015) Electron Microscope Facility, Department of Anatomy, Institute of Medical Sciences, Banaras Hindu University, Varanasi, INDIA 4. UGC Dr. D. S. Kothari Postdoctoral Fellow (August 01, 2011 – July 31, 2014) Electron Microscope Facility, Department of Anatomy, Institute of Medical Sciences, Banaras Hindu University, Varanasi, INDIA 5. Visiting Scientist (February 01, 2010 to May 01, 2010) Department of Biomedical Sciences, Colorado State University, Fort Collins, Colorado 80523, USA 6. Scientist (May 15, 2007 to July 31, 2011). Electron Microscope Facility, Department of Anatomy, Institute of Medical Sciences, Banaras Hindu University, Varanasi, INDIA 						
ADMINISTRATIVE ASSIGNMENTS						
<ol style="list-style-type: none"> 1. Member, IQAC Committee, Gargi College (2018-Continuing) 2. Member, Syllabus Revision Committee, University of Delhi (2019) 3. Member, Admission Committee, Department of Zoology, Gargi College (2016, 2018) 4. Member, Screening Committee, Department of Environmental Studies, University of Delhi (2017) 5. Dy. Superintendent (Practical Examinations), Department of Zoology, Gargi College (2018) 6. Editor, Annual Magazine “FLIGHT” of Department of Zoology, Gargi College (2017, 2018, 2020) 7. Editorial Board Member, Research Journal of Health Sciences, Osun State University, Osogbo, Nigeria 8. Resource Person, Summer Immersion Program 2018 (under the aegis of DBT Star College Scheme and IQAC) 						

9. Resource Person, Refresher Course in Modern Medicine, Academic Staff College, Banaras Hindu University, Varanasi, Uttar Pradesh, INDIA March 10-30, 2015
10. Resource Person, Quality Improvement Program 2013, Department of Pharmaceutical Sciences (UGC-SAP & DST-FIST Supported Department), Birla Institute of Technology, Mesra, Ranchi, Jharkhand, INDIA June 11-24, 2013
11. Coordinator, CME-cum-Workshop on “Electron Microscopy in Medical Research”. December 26, 2008.
12. Coordinator, 56th National Annual Conference of the Anatomical Society of India. December 27-29, 2008.

AREAS OF INTEREST / SPECIALIZATION

Skin Physiology; Nanotoxicology; Freeze Fracture, Scanning and Transmission Electron Microscopy; Immunocytochemistry, Histology, Histochemistry; Fish Biology

SUBJECT TAUGHT

Basics of Neurosciences, Genetics, Molecular Biology, Developmental Biology, Computational Biology, Biostatistics, Cell Biology, Animal Behaviour, An Introduction to Medical Diagnostics, Environmental Studies

RESEARCH GUIDANCE

Mentor, Pathfinder Project, Gargi College (University of Delhi)

- Project Title: Application of Biosynthesized Gold Nanoparticles for Detection of Contamination in Water (2018-19)

Mentor, Research Projects under Star College Scheme funded by Department of Biotechnology, INDIA

- Project Title: Purification and production of Pectinase by Fungi and Bacteria isolated from fruit Waste under solid state and submerged fermentation (2016-17)
- Project Title: Characterization and Green Synthesis of Nanoparticles from fruit extracts of *Punica granatum* (2017-18)
- Project Title: Biosynthesis of various metallic nanoparticles and their antimicrobial applications (2018-19)
- Project Title: Characterization and Green Synthesis of Gold Nanoparticles using L Tyrosine (2019-20)

REFRESHER COURSE/ORIENTATION PROGRAMME/FACULTY DEVELOPMENT PROGRAMMES ATTENDED:

1. Online Refresher Course on “**Life Sciences**” organized by Centre for Professional Development in Higher Education (CPDHE), UGC-Human Resource Development Centre, University of Delhi, Delhi (January 25 – February 8, 2021)
2. Online Faculty Development Programme (FDP) on “**Advanced Research Methodology: Tools and Techniques**”, organized by Teaching Learning Centre (TLC), Ramanujan College, New Delhi under PMMMNMTT Scheme of MHRD. ((January 30 - February 14, 2021).
3. Online Faculty Development Programme (FDP) on “**ICT Enabled Teaching Learning**”, organized by Janki Devi Memorial College in collaboration with Teaching Learning Centre (TLC), Ramanujan College, New Delhi under PMMMNMTT Scheme of MHRD. (September 7, 2020 to September 13, 2020).
4. National Online FDP on **Assessment and Evaluation in Higher Education**, CREATES, IISER, Bhopal under PMMMNMTT Scheme of MHRD. (July 27, 2020 to July 31, 2020).
5. National Level Online Faculty Development Program on “**Innovation and Research Opportunities for Faculty in the New Normal**” organized by the Research & Development Cell in association with Internal Quality Assurance Cell (IQAC), Women’s Christian College, Chennai. June 5, 2020
 - a. Faculty Development Program on ‘**Emotional Intelligence**’ (Online Live FDP) conducted by ICT Academy. May 6-11, 2020
6. Faculty Development Programmes on **Office Automation, Documentation for NAAC and Effective Communication** organized by IQAC, Sri Guru Nanak Dev Khalsa College, University of Delhi, New Delhi (January 4-6, 2019).
7. **9th Refresher Course on Environmental Studies (Interdisciplinary)**, UGC-Human Resource Development Centre, Banaras Hindu University, Varanasi (May 23, 2018 to June 12, 2018).
8. **74th Orientation Course**, UGC-Human Resource Development Centre, Banaras Hindu University, Varanasi (May 24, 2016 to June 20, 2016).

PUBLICATIONS PROFILE

Total Publication: 23 (Research Publications: 22; Chapter in Book: 01)

Total Citation: 495; h-Index: 13 (Web of Science [v.5.18] THOMSON REUTERS)

ResearchGate Citation: 618; RG Score: 22.61; h-Index: 15

1. Sumeet Kumar, Samar Layek, **Madhu Yashpal**, Animesh K. Ojha (2015). Room temperature ferromagnetism in undoped and Mn doped CdO nanostructures. *Journal of Magnetism and Magnetic Materials*, 393(2015):555–561. (ISSN: 0304-8853).
2. Sumeet Kumar, Manish Srivastava, Jay Singh, Samar Layek, **Madhu Yashpal**, Arnulf Materny, Animesh K. Ojha (2015). Controlled synthesis and magnetic properties of monodispersed ceria nanoparticles. *AIP Advances*, 5(2):027109 (ISSN: 2158-3226).
3. Parameswara Rao Vuddanda, Vijayakumar Mahalingam Rajamanickam, **Madhu Yashpal**, Sanjay Singh (2014). Investigations on Agglomeration and Haemocompatibility of Vitamin E TPGS Surface Modified Berberine Chloride Nanoparticles. *BioMed Research International* 01/2014; 2014:951942. 11 pages (ISSN: 2314-6133)
4. Manish Srivastava, Jay Singh, Rajneesh K Mishra, Animesh K. Ojha, **Madhu Yashpal**, Srivastava Sudhanshu (2014). Novel conducting lithium ferrite/chitosan nanocomposite: Synthesis, Characterization, magnetic and dielectric properties. *Current Applied Physics*, 14 (2014):980-990 (ISSN:1567-1739).
5. **Madhu Yashpal**, A.K. Mittal (2014). Serous Goblet Cells: The Protein Secreting Cells in the Oral Cavity of a Catfish, *Rita rita* (Hamilton, 1822) (Bagridae, Siliuriformes). *Tissue and Cell*, 46(1):9-14 (ISSN:0040-8166).
6. **Madhu Yashpal**, Usha Kumari, Swati Mittal, A. K. Mittal (2014). Glycoproteins in the buccal epithelium of a carp, *Cirrhinus mrigala* (Pisces, Cyprinidae): A Histochemical Profile. *Anatomia Histologia Embryologia*, 43(2): 116-132. (ISSN: 1439-0264).
7. Mohd Neyaz Ahsan, Priya Ranjan Prasad Verma, Sandeep Kumar Singh, Samridhi, **Madhu Yashpal** (2014). Formulation of Rosuvastatin Loaded Self Nanoemulsifying Drug Delivery System Using Box-Behnken Design. *Particulate Science and Technology: An International Journal*, 32(1):46-60 (ISSN:0272-6351).
8. Vijay K. Verma, Mayank Gangwar, **Madhu Yashpal**, Gopal Nath (2013). Anti-cestodal activity of endophytic *Pestalotiopsis* sp. on protoscolexes of hydatid cyst *Echinococcus granulosus*. *BioMed Research International*. vol. 2013, Article ID 308515, 11 pages, 2013. doi:10.1155/2013/308515 11 pages. (ISSN: 2314-6133).
9. Brighesh Shahare, **Madhu Yashpal**, Gajendra Singh (2013). Toxic effects of repeated oral exposure of silver nanoparticles on small intestine mucosa of mice. *Toxicology Mechanisms and Methods*. 23(3):161-167. (ISSN:1537-6516).
10. Umesh P. Dhuldhaj, Shivaji D. Deshmukh, Aniket K. Dade, **Madhu Yashpal**, Mahendra K. Rai (2012). *Tagetes erecta* mediated photosynthesis of silver nanoparticles: an ecofriendly approach. *Nusantara Bioscience*. 4(3):109-112. (ISSN: 2087-3948).
11. Manish Srivastava, Jay Singh, **Madhu Yashpal**, Animesh K. Ojha (2012). Synthesis, growth mechanism and characterization of single crystalline α -Fe₂O₃ spherical nanoparticles. *Journal of Nanoscience and Nanotechnology*. 12 (8):6248-6257. (ISSN: 1533-4880).
12. Manish Srivastava, Jay Singh, **Madhu Yashpal**, Dinesh Kumar Gupta, R.K. Mishra, Shipra Tripathi, Animesh K. Ojha (2012). Synthesis of superparamagnetic bare Fe₃O₄ nanostructures and core/shell (Fe₃O₄/alginate) nanocomposites. *Carbohydrate Polymers*. 89 (3): 821-829. (ISSN: 0144-8617).
13. Laxman Singh, U.S. Rai, K.D. Mandal, **Madhu Yashpal** (2012). Dielectric properties of ultrafine Zn doped CaCu₃Ti₄O₁₂ ceramic. *Journal of Advanced Dielectrics*. 2(1): 1250007-1- 1250007-6. (ISSN: 2010-135X).
14. Anurag Jyoti, Surinder P. Singh, **Madhu Yashpal**, Premendra D. Dwivedi, and Rishi Shanker (2011). Rapid Detection of Enterotoxigenic *Escherichia coli* Gene Using Bio-Conjugated Gold Nano-Particles. *Journal of Biomedical Nanotechnology*. 7 (1): 170-171. (ISSN: 1550-7033).
15. N.K. Singh, B.D. Purkayastha, J.K. Roy, R.M. Banik, **Madhu Yashpal**, G. Singh, S. Malik, and P. Maiti (2010). Nanoparticle-Induced Controlled Biodegradation and Its Mechanism in Poly (ϵ -caprolactone). *ACS Applied Materials & Interfaces*. 2 (1):69-81 (ISSN:1944-8244).
16. U. Kumari, **Madhu Yashpal**, S. Mittal and A.K. Mittal (2009). Histochemical analysis of glycoproteins in the secretory cells in the gill epithelium of a catfish, *Rita rita* (Siliuriformes, Bagridae). *Tissue and Cell* 41 (4):271-280. (ISSN:0040-8166).
17. U. Kumari, **Madhu Yashpal**, S. Mittal and A.K. Mittal (2009). Surface Ultrastructure of Gill Arches and Gill Rakers in Relation to Feeding of an Indian Major Carp, *Cirrhinus mrigala*. *Tissue and Cell* 41 (5):318-325. (ISSN:0040-8166).

18. **Madhu Yashpal**, U. Kumari, S. Mittal and A.K. Mittal (2009). Morphological Specializations of the Buccal Cavity in Relation to the Food and Feeding Habit of a Carp *Cirrhinus mrigala*: A Scanning Electron Microscopic Investigation. *Journal of Morphology* 270 (6):714-728. (ISSN: 1097-4687).
19. **Madhu Yashpal**, U. Kumari, S. Mittal and A.K. Mittal (2007). Histochemical Characterization of Glycoproteins in the Buccal Epithelium of a Catfish, *Rita rita*. *Acta Histochemica* 109 (4): 285-303. (ISSN: 0065-1281).
20. **Madhu Yashpal**, U. Kumari, S. Mittal and A.K. Mittal (2006). Surface architecture of the mouth cavity of a carnivorous fish *Rita rita* (Hamilton, 1822) (Siluriformes, Bagridae). *Belgian Journal of Zoology* 136 (2): 155-162. (ISSN:0777-6276).
21. U. Kumari, **Madhu Yashpal**, S. Mittal and A.K. Mittal (2005). Morphology of the pharyngeal cavity, especially the surface ultrastructure of gill arches and gill rakers in relation to the feeding ecology of the catfish *Rita rita* (Siluriformes, Bagridae). *Journal of Morphology* 265 (2): 197-208. (ISSN: 1097-4687).
22. Pinky, S. Mittal, **Madhu Yashpal**, J. Ojha and A.K. Mittal (2004). Occurrence of keratinization in the structures associated with lips of a hill stream fish *Garra lamta* (Hamilton) (Cyprinidae, Cypriniformes). *Journal of Fish Biology* 65 (4): 1165-1172. (ISSN: 1095-8649).

Chapter in Book:

1. **Madhu Yashpal**, Brigesh Shahare and Gajendra Singh (2011). Toxicity of silver nanoparticles: The flip side of the coin. In: Dhingra, H.K., Jha, P.N., Bajpai, P. (Eds.), “*Current Topics in Biotechnology & Microbiology*” (pp. 268–287). LAP Lambert Academic Publishing AG & Co. KG, Dudweiler Landstr., Germany. (ISBN-10: 3844329757; ISBN-13:978-3844329759)

E CHAPTERS/STUDY MATERIALS

1. Units for the Core Course “Hormones: Biochemistry and Functions” for B.Sc (Hons.) Biochemistry Program of IGNOU
 - a. Hormones Mediated Signalling-I
 - b. Hormones Mediated Signalling-II
 - c. Methods of Hormone Assay
2. Units for the Discipline Specific Elective Course “Concepts of Genetics” for B.Sc (Hons.) Biochemistry Program of IGNOU
 - a. Chromosome Aberrations
 - b. Inheritance of Complex Traits & Population Genetics

PAPERS PRESENTED IN INTERNATIONAL/NATIONAL CONFERENCES/SEMINARS/SYMPOSIA

1. Debalina Chatterjee, Mahreen Muneer, Kuntal Kalra, **Madhu Yashpal**. Fabrication of tyrosine-mediated gold nanoparticles on filter paper: an economic and ecosafe approach towards water remediation in National Conference on Nano/Bio-Technology (**NanoBioTech-2019**) organized by Special Center for Nanoscience, Jawaharlal Nehru University, New Delhi in collaboration with National Institute of Immunology, New Delhi (December 19-21, 2019).
2. Sakshi Dawer, Prabhleen Kaur, **Madhu Yashpal** and Kuntal. “Nanotechnology: There is plenty of room at the bottom” in International Conference on "Stewardship towards Sustainability" at SGT University, Gurgaon (September 6-7, 2019).
3. Mahreen Muneer, Debalina Chatterjee, Pooja Kri. Gupta, Prabhleen Kaur, Pallavi Singh, Kuntal Kalra, **Madhu Yashpal**. Applications of L-Tyrosine mediated gold nanoparticles in remediation of contaminated water in 1st International Conference on Integrative Chemistry, Biology & Translational Medicine (**ICBTM-2019**) (February 25-26, 2019), PP/72, 123pp; ISBN: 978-93-5351-396-2.
4. Prabhleen Kaur, Pallavi Singh, Pooja Kri. Gupta, Mahreen Muneer, Debalina Chatterjee, **Madhu Yashpal**. Kuntal Kalra. Pectinase assisted gold nanoparticles and their antimicrobial properties in 1st International Conference on Integrative Chemistry, Biology & Translational Medicine (**ICBTM-2019**) (February 25-26, 2019), PP/68, 119pp; ISBN: 978-93-5351-396-2.
5. Pooja Kri. Gupta, Reena Tiwari, Deepika Verma, Poonam Dagar, Aanchal Gupta, Mandavi R. Sarraf, Kuntal, **Madhu Yashpal**. Biosynthesis of silver nanoparticles from aqueous extract of *Ocimum sanctum* and their antimicrobial properties in National Symposium on Microbes and Nanotechnology for Sustainable Environment (February 7, 2019), 49pp.

6. Debalina Chatterjee, Mahreen Muneer, Pooja K Gupta, Prabhleen Kaur, Pallavi Singh, Kuntal Kalra, **Madhu Yashpal**. Biosynthesis and antimicrobial application of L-Tyrosine mediated gold nanoparticles in Humboldt Kolleg on Comparative Endocrinology and Physiology (January 6-9, 2019), PP/24, 78pp.
7. Mahreen Muneer, Debalina Chatterjee, Praneetha, Prabhleen Kaur, Pallavi Singh, Kuntal, **Madhu Yashpal**. Biosynthesis and antimicrobial application of proanthocyanidin-mediated gold nanoparticles using fruit extract of Punica granatum in 3rd Annual Conference of Indian Society of Nanomedicine (NANOBIOTECK 2018) (October 25-27, 2018), PP/07, 103pp.
8. Debalina Chatterjee, Mahreen Muneer, Praneetha, Prabhleen Kaur, Pallavi Singh, Kuntal, **Madhu Yashpal**. Biogenic synthesis of gold nanoparticles by fruit extract of Punica granatum and their antimicrobial properties in Fourth National Symposium on Environment: Green Technology for Environmental Sustainability (September 25, 2018), 18/PP/09, 56 pp.
9. Pallavi Singh, Prabhleen Kaur, Himani Chawla, Mahreen Muneer, Debalina Chatterjee, **Madhu Yashpal** and Kuntal. Pectinase production by Aspergillus niger using fruit waste peel as substrate under submerged fermentation in Fourth National Symposium on Environment: Green Technology for Environmental Sustainability (September 25, 2018), 18/PP/11, 58 pp.
10. **Madhu Yashpal**, Kuntal. Effects of Repeated Oral Exposure of Silver Nanoparticles on Liver of Mice. International Conference on Nanobiotechnology for Agriculture: From Research to Innovation (**NANOAGRI-2017**), The Energy and Resources Institute (TERI), Darbari Seth Block, IHC Complex, Lodhi Road, New Delhi (**November 20-21, 2017**).
11. Monika, Manisha Kumari, Kuntal Kalra, **Madhu Yashpal**. Optimization and Production of Pectinase Using Citrus Fruit Waste by Solid State and Submerged Fermentation. International Conference on Nanobiotechnology for Agriculture: From Research to Innovation (**NANOAGRI-2017**), The Energy and Resources Institute (TERI), Darbari Seth Block, IHC Complex, Lodhi Road, New Delhi (**November 20-21, 2017**).
12. **Madhu Yashpal**, Briges Shahare, Gajendra Singh and Bechan Lal. Toxic Effect of Silver Nanoparticles on Testis Morphology of Mice. National Symposium on Comparative Endocrinology and Reproductive Biology (CERB-2015), Department of Zoology, Visva-Bharati, Shantiniketan, West Bengal (October 1-3, 2015).
13. **Madhu Yashpal**, Pankaj Kumar, Bechan Lal. National Eligibility Test for Junior Research Fellowship and Doctoral Research: The DILEMMA. International Conference on Issues and Challenges in Doctoral Research (ICICDR-2015), Banaras Hindu University Under the Aegis of Global Network of Doctorates (August 25, 2015).
14. **Madhu Yashpal**, Pankaj Kumar, Bechan Lal. Research, Governing Bodies and Ethics: Is there a Conflict!!! XXV National Symposium on Chronobiology: Time in Biology & Medicine, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh. Indian Society of Chronobiology. (March 27-29, 2015).
15. **Madhu Yashpal**. Transmission Electron Microscopy in Biomedical Research: Concepts, Methodologies and Applications. Refresher Course in Modern Medicine, Academic Staff College, Banaras Hindu University, Varanasi, Uttar Pradesh, INDIA. March 12, 2015.
16. **Madhu Yashpal**. Transmission Electron Microscopy: Applications in Pharmaceuticals. Quality Improvement Program 2013 (AICTE Sponsored), Department of Pharmaceutical Sciences (UGC-SAP & DST-FIST Supported Department), BIT, Mesra, Ranchi, Jharkhand, INDIA. June 11-24, 2013
17. **Madhu Yashpal**. Electron Microscopy and Drug Delivery: Concepts, Trends and Future Prospects. Quality Improvement Program 2013 (AICTE Sponsored), Department of Pharmaceutical Sciences (UGC-SAP & DST-FIST Supported Department), BIT, Mesra, Ranchi, Jharkhand, INDIA. June 11-24, 2013
18. **Madhu Yashpal**, Briges Shahare, Gajendra Singh. Uptake and effects of Silver Nanoparticles in small intestinal cells. 59th National Conference of Anatomical Society of India, Department of Anatomy, SAIMS Medical College, Indore. Dec. 26-29, 2011.
19. Briges Shahare, **Madhu Yashpal**, Gajendra Singh. Silver Nanoparticle Induces Autophagic Cell Death in Liver. 59th National Conference of Anatomical Society of India, Department of Anatomy, SAIMS Medical College, Indore. Dec. 26-29, 2011
20. Briges Shahare, **Madhu Yashpal**, Gajendra Singh. Are Silver Nanoparticles Hepatotoxic? Journal of Anatomical Society of India 60 (1): 83P, June 2011. 58th National Conference of Anatomical Society of India, Department of Anatomy, Padamshree Dr. D.Y. Patil Medical College, Pimpri, Pune. December 27-29, 2010.

21. **Madhu Yashpal**, Brigesh Shahare, Gajendra Singh. Effects of silver nanoparticles on intestinal mucosa: A histochemical aspect. *Journal of Anatomical Society of India* 60 (1): 83P, June 2011. 58th National Conference of Anatomical Society of India, Department of Anatomy, Padamshree Dr. D.Y. Patil Medical College, Pimpri, Pune. December 27-29, 2010.
22. Brigesh Shahare, **Madhu Yashpal**, Gajendra Singh. Are Silver Nanoparticles Potential Male Reproductive Toxicants? *Journal of Anatomical Society of India* 60(1):105, June 2011. 58th National Conference of Anatomical Society of India, Department of Anatomy, Padamshree Dr. D.Y. Patil Medical College, Pimpri, Pune. December 27-29, 2010.
23. Gajendra Singh, **Madhu Yashpal**. Novel Therapeutic Properties of Nanosilver. *Journal of Anatomical Society of India* 59 (1): 113P, June 2010. 57th National Conference of Anatomical Society of India, Department of Anatomy, J.N. Medical College, Nehrunagar, Belgaum. December 27-29, 2009.
24. Brigesh Shahare, **Madhu Yashpal**, Gajendra Singh. Preparation and Characterization of Silver Nanoparticles. *Journal of Anatomical Society of India* 59 (1): 54P, June 2010. 57th National Conference of Anatomical Society of India, Department of Anatomy, J.N. Medical College, Nehrunagar, Belgaum. December 27-29, 2009.
25. **Madhu Yashpal**, Pankaj Kumar, Gajendra Singh. Role of nitric oxide in reproductive regulation of male mice. *Journal of Anatomical Society of India* 59 (1): 89P, June 2010. 57th National Conference of Anatomical Society of India, Department of Anatomy, J.N. Medical College, Nehrunagar, Belgaum. December 27-29, 2009.
26. **Madhu Yashpal**, U. Kumari, Swati Mittal, A. K. Mittal. Characterization of glycoproteins in the secretory cells in the buccal epithelium of a carp, *Cirrhinus mrigala*; A histochemical Investigation. Symposium on "Functional Biodiversity and Ecophysiology of Animals", Department of Zoology, Banaras Hindu University, Varanasi. February 21-23, 2009.
27. U. Kumari, **Madhu Yashpal**, Swati Mittal, A. K. Mittal. Surface ultrastructure of the gill filaments and the secondary lamellae of a catfish, *Rita rita*. Symposium on "Functional Biodiversity and Ecophysiology of Animals", Department of Zoology, Banaras Hindu University, Varanasi. February 21-23, 2009.
28. A.K. Mittal, Swati Mittal, **Madhu Yashpal**, U. Kumari. Adaptive modifications in the buccopharynx of a catfish, *Rita rita* and a carp, *Cirrhinus mrigala*. Symposium on "Functional Biodiversity and Ecophysiology of Animals", Department of Zoology, Banaras Hindu University, Varanasi. February 21-23, 2009.
29. **Madhu Yashpal**, U. Kumari, Swati Mittal, A. K. Mittal. Structural and functional aspects of horny jaw sheaths in the buccal cavity of a carp *Cirrhinus mrigala*. National Conference on "Recent Advances in Ecophysiology of Fishes", R.H.S.P.G. College, Singramau, Jaunpur. February 15 - 16, 2009.
30. U. Kumari, **Madhu Yashpal**, Swati Mittal, A. K. Mittal. Gill filaments and secondary lamellae of an Indian major carp, *Cirrhinus mrigala*: A scanning electron microscope investigation. National Conference on "Recent Advances in Ecophysiology of Fishes", R.H.S. P.G. College, Singramau, Jaunpur. February 15 - 16, 2009.
31. **Madhu Yashpal**, U. Kumari, Swati Mittal, A. K. Mittal, Gajendra Singh. Serous goblet cells in the buccal epithelium: A histological and electron microscopical study. "56th National Conference of the Anatomical Society of India", Banaras Hindu University, December 27 - 29, 2008.
32. F. Durrani, Royana Singh, Gajendra Singh, **Madhu Yashpal**. Dentinogenesis imperfect Type II, Sporadic case: Clinical, Radiological, Histological Investigation. "56th National Conference of the Anatomical Society of India", BHU, Varanasi. Dec. 27-29, 2008.
33. **Madhu Yashpal**, U. Kumari, Swati Mittal, A. K. Mittal. Surface architecture of buccal cavity of a carnivorous fish *Rita rita* (Siluriformes, Bagridae). "Symposium on Advances in Fish Physiology: Ecological Considerations", BHU, March 20 - 21, 2004.
34. U. Kumari, **Madhu Yashpal**, Swati Mittal, A. K. Mittal. Functional organization of gill rakers of a catfish *Rita rita* and a hawk fish *Cirrhinus mrigala*. "Symposium on Advances in Fish Physiology: Ecological Considerations", BHU, March 20 - 21, 2004.
35. **Madhu Yashpal**, U. Kumari, A. K. Mittal. Functional organization of the buccal epithelium of a freshwater Catfish *Rita rita*. "National Colloquium on Catfish Physiology" held at BHU, Varanasi. Nov. 19 - 20, 2002.
36. Pinky, S. Mittal, **Madhu Yashpal**, J. Ojha, A. K. Mittal. Fluorescence microscopy and histochemical characterization of protein moieties in the epithelia of lips and structures associated with them of an Indian hill stream fish *Garra lamta* (Hamilton) (Cyprinidae: Cypriniformes). National symposium on "Perspectives of Biodiversity, Ecophysiology and Conservation of Freshwater Animals", Tilkamanjhi Bhagalpur University, Sept. 9 - 11, 2002.

CONFERENCE/SEMINARS/SYMPOSIA/WEBINARS/PRESENTATIONS/ORGANIZATION

1. Course on **“Effective Documentation for Accreditation”** organized by IQAC Cluster India in collaboration with WhiteCode Technology Pvt. Ltd. September 15, 2020 to November 10, 2020 – 2 Months
2. Webinar on **“Entomology in Criminal Investigations”** organized by Gargi College (University of Delhi), New Delhi, India. August 22, 2020.
3. National Online FDP on **Assessment and Evaluation in Higher Education**, CREATES, IISER, Bhopal under PMMMNMTT Scheme of MHRD. Banaras (July 27, 2020 to July 31, 2020).
4. Webinar on **“Plagiarism Issues, Policies and Detection Tools”** organized by Institutional Academic Integrity Panel (IAIP) and Internal Quality Assurance Cell (IQAC) in collaboration with Information and Library Network (INFLIBNET), Ram Lal Anand College (University of Delhi), New Delhi, India. June 25, 2020
5. Training programme on **“Institutional Quality Measures for Administration”** organized by IQAC, Gargi College (University of Delhi), New Delhi, India. June 17-18, 2020
6. Online Super Session on **Future of Education** Expert session by Prof. D P Singh conducted on 18 June 2020 by ICT Academy.
7. National Webinar on **“Preparation of SOPs and Policy Documents for NAAC Accreditation”** organized by IQAC, Bharat College of Arts & Commerce and IQAC Cluster, India. June 15, 2020
8. National Seminar on **“Importance of Infrastructure and Learning Resources in the Revised Accreditation Framework (RAF) of NAAC”** organized by Internal Quality Assurance Cell, The Bhopal School of Social Sciences Habibganj, Bhopal, sponsored by the University Grants Commission UGC) under Paramarsh Scheme. June 6, 2020.
9. National Level Online Faculty Development Program on **“Innovation and Research Opportunities for Faculty in the New Normal”** organized by the Research & Development Cell in association with Internal Quality Assurance Cell (IQAC), Women’s Christian College, Chennai. June 5, 2020
10. Webinar on **‘Conquering Less Attended Areas in NAAC & Outcome Based Education’** arranged by IQAC Cluster India & WhiteCode Technology Pvt. Ltd. In association with Jagadamba Mahavidyalaya, Achalpur City & Atul Vidya Mandir Wardha’s Rajarshree Shahu Science College, Chandur Rly. June 1-3, 2020 - 12 Hours
11. National Webinar on **“Fighting Pandemics with Artificial Intelligence”** organized by Department of Microbiology, Gargi College (University of Delhi), New Delhi, India. May 29, 2020
12. National Webinar on **“Intellectual Property Rights – A Kaleidoscope of Opportunity”** organized by Department of Microbiology, Gargi College (University of Delhi), New Delhi, India. May 23, 2020
13. Webinar on **‘Role of Non-Teaching Staff in Accreditation and Quality Enhancement of Higher Education Institutions’** arranged by IQAC Cluster India & WhiteCode Technology Pvt. Ltd. May 20-23, 2020
14. International Webinar on **“Drug Development, its challenges and the role of nutrition in Immunoboosting against Covid-19”**, organized by Department of Zoology under aegis of IQAC, Kalindi College, University of Delhi, New Delhi May 20, 2020
15. Webinar on **“NAAC: Systematic Data Organization and Presentation”**, organized by IQAC, Vidyalankar Institute of Technology, Mumbai. May 16, 2020
16. Webinar on **‘Filling Up Online AQAR as Per RAF: Development and Application of Quality Benchmarks’** arranged by IQAC Cluster India & WhiteCode Technology Pvt. Ltd. May 12-13, 2020
17. Faculty Development Program on **‘Emotional Intelligence’** (Online Live FDP) conducted by ICT Academy. May 6-11, 2020
18. National Webinar on **‘Virtual Classes Tools: Google classroom, Google meet and YouTube’** organized by Botany Department, Gargi College, University of Delhi. May 11, 2020
19. Webinar on **‘COVID-19: Managing Challenges and Exploring Opportunities’** organized by Add on Courses Committee, Gargi College, University of Delhi. May 9, 2020
20. Online Learning Workshop for Faculty, Part 3: **Course on Assessment and Evaluation for Online Learning**. Organized by Quality Assurance Strategic Planning Institutional Research (QASPIR), United Kingdom. May 6-9, 2020
21. Online Learning Workshop on **Digital Leadership Course**, Part 2: Educational Technologies. Organized by

- Quality Assurance Strategic Planning Institutional Research (QASPIR), United Kingdom. April 22-24, 2020
22. **Online Learning Workshop for Faculty.** Organized by Quality Assurance Strategic Planning Institutional Research (QASPIR), United Kingdom. April 1-3, 2020
 23. Webinar on **Neurodegenerative Diseases-Challenges and Excitements.** Organized by Mizoram university, Aizwal, India. May 1, 2020
 24. Webinar on **Fighting Corona - Leveraging Scientific Research & Innovation.** Organized by Elets Technomedia Pvt Ltd. on the occasion of 49th Foundation day of the Department of Science and Technology. May 3, 2020
 25. BRIDGE-2019, New Delhi organized by ICT Academy at AICTE Auditorium, New Delhi (December 11, 2019).
 26. National Conference on **Nano/Biotechnology** (NanoBioTech-2019) organized by Special Center for Nanoscience, Jawaharlal Nehru University, New Delhi in collaboration with National Institute of Immunology, New Delhi (December 19-21, 2019).
 27. International Conference on **"Stewardship towards Sustainability"** organized by SGT University, Gurgaon (September 6-7, 2019).
 28. 1st International Conference on **Integrative Chemistry, Biology & Translational Medicine** (ICBTM-2019) organized by Loyola University Chicago Stritch School of Medicine (SSOM) and Department of Chemistry, Hansraj College, University of Delhi, New Delhi (February 25-26, 2019)
 29. National Symposium on **Microbes and Nanotechnology for sustainable environment** organized by Department of Botany, Kirori Mal College, University of Delhi, New Delhi (February 7, 2019).
 30. **Humboldt Kolleg on Comparative Endocrinology and Physiology** (supported by the Alexander von Humboldt (AvH) Foundation, Germany) organized by Department of Zoology, RTM Nagpur University, Nagpur, Maharashtra (January 6-9, 2019).
 31. Faculty Development Programmes on **Office Automation, Documentation for NAAC and Effective Communication** organized by IQAC, Sri Guru Nanak Dev Khalsa College, University of Delhi, New Delhi (January 4-6, 2019).
 32. **3rd Annual Conference of Indian Society of Nanomedicine** (NANOBIOTECK 2018) organized by Department of Biotechnology, GOI (in partner with Indian Society of Nanomedicine (ISNM), AIIMS, IIT Delhi) at All India Institute of Medical Sciences, New Delhi (October 25-27, 2018).
 33. Pre-Conference Workshops on **Nanomedicine School (Back to Basics) and Knowledge on IPR: Translational Barriers in Nanomedicine** organized by Department of Biotechnology, GOI (in partner with Indian Society of Nanomedicine (ISNM), AIIMS, IIT Delhi) at All India Institute of Medical Sciences, New Delhi (October 24, 2018).
 34. Fourth National Symposium on **Environment: Green Technology for Environmental Sustainability** organized by Department of Zoology, Deshbandhu College, University of Delhi, New Delhi (September 25, 2018).
 35. 2nd Task Force Meet under Star College Scheme (sponsored by DBT) organized by Gargi College University of Delhi, New Delhi (May 8-9, 2018).
 36. Symposium on **"Wanderers of Nature: Exploring Wildlife"** organized by Department of Zoology, Gargi College University of Delhi, New Delhi (March 12, 2018).
 37. National Conference on **"Technological Empowerment of Women"**, organized by The National Academy of Sciences, India (NASI) at Vigyan Bhawan, New Delhi (March 8-9, 2018).
 38. National Seminar on **"Mentoring the Teachers-Mentors: Capacity Building Programme"** organized by Internal Quality Assurance Cell (IQAC), Gargi College University of Delhi, New Delhi (January 19-20, 2018).
 39. Workshop on **"Ingenuity in Biological Sciences"**, Department of Zoology, Gargi College University of Delhi, New Delhi (January 11-12, 2018).
 40. International Conference on **Nanobiotechnology for Agriculture: From Research to Innovation** (NANOAGRI-2017), The Energy and Resources Institute (TERI), Darbari Seth Block, IHC Complex, Lodhi Road, New Delhi (November 20-21, 2017).
 41. National Conference on **Combating Industrial Pollution for Sustainable Environment- A Fusion of Industrial and Scientific Efforts** (CIPSE-2016), Department of Chemistry, Gargi College, University of

- Delhi New Delhi (September 22-23, 2016).
42. National Symposium on **Comparative Endocrinology and Reproductive Biology** (CERB-2015), Department of Zoology, Visva-Bharati, Shantiniketan, West Bengal (October 1-3, 2015).
 43. International Conference on **Issues and Challenges in Doctoral Research** (ICICDR-2015), Banaras Hindu University Under the aegis of Global Network of Doctorates (August 25, 2015).
 44. XXV National Symposium on Chronobiology: Time in Biology & Medicine, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh. Indian Society of Chronobiology. (March 27-29, 2015).
 45. Quality Improvement Program 2013 (AICTE Sponsored), Department of Pharmaceutical Sciences (UGC-SAP & DST-FIST Supported Department), Birla Institute of Technology, Mesra, Ranchi, Jharkhand, INDIA. (June 11-24, 2013).
 46. 59th National Conference of Anatomical Society of India, Department of Anatomy, SAIMS Medical College, Indore, Madhya Pradesh (December 26-29, 2011).
 47. XIV Annual Conference of Indian Society of Wound Management, Department of General Surgery, Institute of Medical Sciences, Banaras Hindu University, Varanasi. April 2-3, 2011
 48. National Conference on **"Higher Education in Current Scenario"**, Banaras Hindu University, Varanasi. February 25-26, 2011.
 49. 58th National Conference of Anatomical Society of India, Department of Anatomy, Padamshree Dr. D.Y. Patil Medical College, Pimpri, Pune. December 27-29, 2010.
 50. 57th National Conference of Anatomical Society of India, Department of Anatomy, J.N. Medical College, Nehrunagar, Belgaum. December 27-29, 2009.
 51. Symposium on **"Functional Biodiversity and Ecophysiology of Animals"**, Department of Zoology, Banaras Hindu University, Varanasi. February 21-23, 2009.
 52. National Conference on **"Recent Advances in Ecophysiology of Fishes"**, R.H.S.P.G. College, Singrauli, Jaunpur. February 15 - 16, 2009.
 53. 56th National Conference of Anatomical Society of India, Department of Anatomy, Institute of Medical Sciences, Banaras Hindu University, Varanasi. December 27-29, 2008.
 54. Symposium on **"Advances in Fish Physiology: Ecological Considerations"**, Department of Zoology, Banaras Hindu University. March 20 - 21, 2004.
 55. National Colloquium on **"Catfish Physiology"**, Department of Zoology, Banaras Hindu University. Nov. 19 - 20, 2002.
 56. **"Perspectives of Biodiversity, Ecophysiology and Conservation of Freshwater Animals"** Department of Zoology, Tilkamanjhi Bhagalpur University, Sept. 9 - 11, 2002.

WORKSHOP/TRAINING PROGRAMME ATTENDED

1. Training programme on **"Institutional Quality Measures for Administration"** organized by IQAC, Gargi College (University of Delhi), New Delhi, India. June 17-18, 2020 - 6 Hours
2. Online Learning Workshop for Faculty, Part 3: **Course on Assessment and Evaluation for Online Learning**. Organized by Quality Assurance Strategic Planning Institutional Research (QASPIR), United Kingdom. May 6-9, 2020 - 8 hours
3. **Digital Leadership Course, Part 2: Educational Technologies**. Organized by Quality Assurance Strategic Planning Institutional Research (QASPIR), United Kingdom. April 22-24, 2020 - 8 hours
4. **Online Learning Workshop for Faculty**. Organized by Quality Assurance Strategic Planning Institutional Research (QASPIR), United Kingdom. April 1-3, 2020 - 8 hours
5. National Workshop on **Biostatistics**, Zakir Husain Delhi College, J.L.N Marg. Delhi. (March 09-10, 2017).
6. Workshop on **"Understanding Statistics by MS-Excel and SPSS"**, DST Centre for Interdisciplinary Mathematical Sciences, Banaras Hindu University, Varanasi (December 28, 2015 to January 03, 2016).
7. Workshop cum camp on **"Foldscope Explore: Exploring the Microcosmos"**, Sri Venkateshwara College, Delhi University, New Delhi (December 16, 2015).
8. Pre-Conference CME on **"Stem Cells"** 58th National Conference of Anatomical Society of India, Department of Anatomy, Padamshree Dr. D.Y. Patil Medical College, Pimpri, Pune (December 26, 2010)

9. Training in “**Freeze Fracture Replica Immunogold labeling Transmission Electron Microscopy**”, Department of Biomedical Sciences, Colorado State University, Fort Collins, CO 80523, USA (February 01 to May 01, 2010)
10. CME-cum-Workshop on “Electron Microscopy in Medical Research”, Department of Anatomy, Institute of Medical Sciences, Banaras Hindu University, Varanasi (December 26, 2008)
11. Summer Training Course on “**Electron Microscopy**” Electron Microscope Facility, Department of Anatomy, All India Institute of Medical Sciences, New Delhi (July 2-August 11, 2007)
12. Training on “**Basic Tools in Molecular Biology Research**” National Bureau of Fish Genetic Resources, Lucknow (Feb. 05-09, 2007)

RESEARCH PROJECTS (MAJOR GRANTS/RESEARCH COLLABORATION)

UGC-BSR Start-up Grant (2017-2019) Grant: Rs. 10 Lakhs

AWARDS AND DISTINCTIONS

1. UGC Postdoctoral Fellowship for Women (Designate, 2015-17)
2. UGC Dr. D. S. Kothari Postdoctoral Fellowship (August 1, 2011-July 31, 2014)
3. Project Associate, University Grant Commission, New Delhi, India (March 11, 2004 – June 30, 2006)
4. Junior Research Fellowship by Centre of Advanced Study, Department of Zoology, Banaras Hindu University (March 7, 2003 to March 6, 2004)

ASSOCIATION WITH PROFESSIONAL BODIES

1. Electron Microscope Society of India (Life Member) Membership No. LM955
2. Indian Society of Comparative Endocrinology (Life Member) Membership No. 199
3. The American Association for the Advancement of Science (Member) Membership No. 40903052

OTHER ACTIVITIES

1. **Reviewer**, Anatomia, Histologia, Embryologia (Wiley Blackwell)
2. **Reviewer**, Journal of Functional Foods (Elsevier)
3. **Academic Counsellor**, Indira Gandhi National Open University (May/June 2016; May/June 2017; May/June 2018; May/June 2019)
4. **Member, Organizing Committee**, Symposium on "Wanderers of Nature: Exploring Wildlife" organized by Department of Zoology, Gargi College University of Delhi, New Delhi (January 11-12, 2018).
5. **Guest of Honor** for ‘GENESIS 2017’, an Inter-Institutional Science Festival at School of Biosciences, IMS Ghaziabad (November 2, 2017)