




## Faculty Details proforma for Gargi College

Title	Dr.	First Name	MADHU	Last Name	YASHPAL	Photograph
<b>Designation</b>	Assistant Professor					
<b>Address (Office)</b>	Department of Zoology Gargi College (University of Delhi) Siri Fort Road, New Delhi-110 049, INDIA					
<b>Phone No Office</b>						
<b>Residence Mobile</b>	+91 9415618899					
<b>Email</b>	madhuyashpal@gmail.com					
<b>Web-Page</b>						
<b>Educational Qualifications</b>						
<b>Degree</b>	<b>Institution</b>				<b>Year</b>	
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	
<b>Career Profile</b>						
<ol style="list-style-type: none"> <li>1. Assistant Professor (October 10, 2015 – Continuing) Department of Zoology, Gargi College (University of Delhi), Siri Fort Road, New Delhi -110 049, INDIA</li> <li>2. UGC Postdoctoral Fellowship for Women (Designate, 2016-17) Department of Zoology, Banaras Hindu University, Varanasi, INDIA</li> <li>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</li> <li>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</li> <li>5. Visiting Scientist (February 01, 2010 to May 01, 2010) Department of Biomedical Sciences, Colorado State University, Fort Collins, Colorado 80523, USA</li> <li>6. Scientist (May 15, 2007 to July 31, 2011). Electron Microscope Facility, Department of Anatomy, Institute of Medical Sciences, Banaras Hindu University, Varanasi, INDIA</li> </ol>						
<b>Administrative Assignments</b>						
<ol style="list-style-type: none"> <li>1. Member, IQAC Committee, Gargi College (2018-Continuing)</li> <li>2. Member, Annual Magazine Committee, Department of Zoology, Gargi College (2017, 2018)</li> <li>3. Editorial Board Member, Research Journal of Health Sciences, Osun State University, Osogbo, Nigeria</li> <li>4. Resource Person, Refresher Course in Modern Medicine, Academic Staff College, Banaras Hindu University, Varanasi, Uttar Pradesh, INDIA March 10-30, 2015</li> <li>5. Resource Person, Quality Improvement Program 2013, Department of Pharmaceutical Sciences (UGC-SAP &amp; DST-FIST Supported Department), Birla Institute of Technology, Mesra, Ranchi, Jharkhand, INDIA June 11-24, 2013</li> <li>6. Coordinator, CME-cum-Workshop on "Electron Microscopy in Medical Research". December 26, 2008.</li> <li>7. Coordinator, 56<sup>th</sup> National Annual Conference of the Anatomical Society of India. December 27-29, 2008.</li> </ol>						

<b>Areas of Interest / Specialization</b>
Skin Physiology; Nanotoxicology; Freeze Fracture, Scanning and Transmission Electron Microscopy; Immunocytochemistry, Histology, Histochemistry; Fish Biology
<b>Subject Taught</b>
<ol style="list-style-type: none"> <li>1. Genetics</li> <li>2. Molecular Biology</li> <li>3. Developmental Biology</li> <li>4. Computational Biology</li> <li>5. Biostatistics</li> <li>6. Cell Biology</li> <li>7. Animal Behaviour</li> <li>8. An Introduction to Medical Diagnostics</li> <li>9. Environmental Studies</li> </ol>
<b>Research Guidance</b>
Mentor, Research Projects under Star College Scheme funded by Department of Biotechnology, INDIA
<b>Refresher Course/Orientation Programme Attended:</b>
74 <sup>th</sup> Orientation Course, UGC-Human Resource Development Centre, Banaras Hindu University, Varanasi (May 24, 2016 to June 20, 2016).
<b>Publications Profile</b>
<p><b>Total Publication: 23 (Research Publications: 22; Chapter in Book: 01)</b>  <b>Total Citation: 177; h-Index: 8 (Web of Science [v.5.18] THOMSON REUTERS)</b>  <b>ResearchGate Citation: 414; RG Score: 22.51; h-Index: 12</b></p> <ol style="list-style-type: none"> <li>1. Sumeet Kumar, Samar Layek, <b>Madhu Yashpal</b>, Animesh K. Ojha (2015). Room temperature ferromagnetism in undoped and Mn doped CdO nanostructures. <i>Journal of Magnetism and Magnetic Materials</i>, 393(2015):555–561. (ISSN: 0304-8853). IF:1.970</li> <li>2. Sumeet Kumar, Manish Srivastava, Jay Singh, Samar Layek, <b>Madhu Yashpal</b>, Arnulf Materny, Animesh K. Ojha (2015). Controlled synthesis and magnetic properties of monodispersed ceria nanoparticles. <i>AIP Advances</i>, 5(2):027109 (ISSN: 2158-3226). IF: 1.59</li> <li>3. Parameswara Rao Vuddanda, Vijayakumar Mahalingam Rajamanickam, <b>Madhu Yashpal</b>, Sanjay Singh (2014). Investigations on Agglomeration and Haemocompatibility of Vitamin E TPGS Surface Modified Berberine Chloride Nanoparticles. <i>BioMed Research International</i> 01/2014; 2014:951942. 11 pages (ISSN: 2314-6133) IF: 2.706</li> <li>4. Manish Srivastava, Jay Singh, Rajneesh K Mishra, Animesh K. Ojha, <b>Madhu Yashpal</b>, Srivastava Sudhanshu (2014). Novel conducting lithium ferrite/chitosan nanocomposite: Synthesis, Characterization, magnetic and dielectric properties. <i>Current Applied Physics</i>, 14 (2014):980-990 (ISSN:1567-1739). IF: 2.026</li> <li>5. <b>Madhu Yashpal</b>, A.K. Mittal (2014). Serous Goblet Cells: The Protein Secreting Cells in the Oral Cavity of a Catfish, <i>Rita rita</i> (Hamilton, 1822) (Bagridae, Siliuriformes). <i>Tissue and Cell</i>, 46(1):9-14 (ISSN:0040-8166). IF:1.049</li> <li>6. <b>Madhu Yashpal</b>, Usha Kumari, Swati Mittal, A. K. Mittal (2014). Glycoproteins in the buccal epithelium of a carp, <i>Cirrhinus mrigala</i> (Pisces, Cyprinidae): A Histochemical Profile. <i>Anatomia Histologia Embryologia</i>, 43(2): 116-132. (ISSN: 1439-0264). IF: 0.742</li> <li>7. Mohd Neyaz Ahsan, Priya Ranjan Prasad Verma, Sandeep Kumar Singh, Samridhi, <b>Madhu Yashpal</b> (2014). Formulation of Rosuvastatin Loaded Self Nanoemulsifying Drug Delivery System Using Box-Behnken Design. <i>Particulate Science and Technology: An International Journal</i>, 32(1):46-60 (ISSN:0272-6351). IF: 0.482</li> <li>8. Vijay K. Verma, Mayank Gangwar, <b>Madhu Yashpal</b>, Gopal Nath (2013). Anti-cestodal activity of endophytic <i>Pestalotiopsis</i> sp. on protoscoleces of hydatid cyst <i>Echinococcus granulosus</i>. <i>BioMed Research International</i>. vol. 2013, Article ID 308515, 11 pages, 2013. doi:10.1155/2013/308515 11 pages. (ISSN: 2314-6133). IF: 2.706</li> <li>9. Brigesh Shahare, <b>Madhu Yashpal</b>, Gajendra Singh (2013). Toxic effects of repeated oral exposure of silver</li> </ol>

- nanoparticles on small intestine mucosa of mice. *Toxicology Mechanisms and Methods*. 23(3):161-167. (ISSN:1537-6516). IF:1.548
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). IF: Nil
  11. Manish Srivastava, Jay Singh, **Madhu Yashpal**, Animesh K. Ojha (2012). Synthesis, growth mechanism and characterization of single crystalline  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> spherical nanoparticles. *Journal of Nanoscience and Nanotechnology*. 12 (8):6248-6257. (ISSN: 1533-4880). IF: 1.339
  12. Manish Srivastava, Jay Singh, **Madhu Yashpal**, Dinesh Kumar Gupta, R.K. Mishra, Shipra Tripathi, Animesh K. Ojha (2012). Synthesis of superparamagnetic bare Fe<sub>3</sub>O<sub>4</sub> nanostructures and core/shell (Fe<sub>3</sub>O<sub>4</sub>/alginate) nanocomposites. *Carbohydrate Polymers*. 89 (3): 821-829. (ISSN: 0144-8617). IF:3.916
  13. Laxman Singh, U.S. Rai, K.D. Mandal, **Madhu Yashpal** (2012). Dielectric properties of ultrafine Zn doped CaCu<sub>3</sub>Ti<sub>4</sub>O<sub>12</sub> ceramic. *Journal of Advanced Dielectrics*. 2(1): 1250007-1- 1250007-6. (ISSN: 2010-135X). IF: Nil
  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). IF:7.578
  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 ( $\epsilon$ -caprolactone). *ACS Applied Materials & Interfaces*. 2 (1):69-81 (ISSN:1944-8244). IF:5.900
  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* (Siluriformes, Bagridae). *Tissue and Cell* 41 (4):271-280. (ISSN:0040-8166) IF:1.049
  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) IF:1.049
  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). IF: 1.553
  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). IF:1.760
  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). IF:0.702
  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). IF: 1.553
  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). IF:1.734

#### 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)

#### Conference/Seminars/Symposia/Presentations/Organization

1. Symposium on "Wanderers of Nature: Exploring Wildlife" organized by Department of Zoology, Gargi College University of Delhi, New Delhi (January 11-12, 2018).
2. 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).
3. 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)
4. Workshop on "Ingenuity in Biological Sciences", Department of Zoology, Gargi College University of Delhi, New Delhi (January 11-12, 2018).
  5. 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).
  6. 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).
  7. National Symposium on Comparative Endocrinology and Reproductive Biology (CERB-2015), Department of Zoology, Visva-Bharati, Shantiniketan, West Bengal (October 1-3, 2015).
  8. 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).
  9. XXV National Symposium on Chronobiology: Time in Biology & Medicine, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh. Indian Society of Chronobiology. (March 27-29, 2015).
  10. Quality Improvement Program 2013 (AICTE Sponsored), Department of Pharmaceutical Sciences (UGC-SAP & DST-FIST Supported Department), Birla Institute of Technology, Mesra, Ranchi, INDIA. (June 11-24, 2013).
  11. 59<sup>th</sup> National Conference of Anatomical Society of India, Department of Anatomy, SAIMS Medical College, Indore, Madhya Pradesh (December 26-29, 2011).
  12. 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
  13. National Conference on "Higher Education in Current Scenario", Banaras Hindu University, Varanasi. February, 25-26, 2011.
  14. 58<sup>th</sup> National Conference of Anatomical Society of India, Department of Anatomy, Padamshree Dr. D.Y. Patil Medical College, Pimpri, Pune. December 27-29, 2010.
  15. 57<sup>th</sup> National Conference of Anatomical Society of India, Department of Anatomy, J.N. Medical College, Nehrunagar, Belgaum. December 27-29, 2009.
  16. Symposium on "Functional Biodiversity and Ecophysiology of Animals", Department of Zoology, Banaras Hindu University, Varanasi. February 21-23, 2009.
  17. National Conference on "Recent Advances in Ecophysiology of Fishes", R.H.S.P.G. College, Singramau, Jaunpur. February 15 - 16, 2009.
  18. 56<sup>th</sup> National Conference of Anatomical Society of India, Department of Anatomy, Institute of Medical Sciences, Banaras Hindu University, Varanasi. December 27-29, 2008.
  19. Symposium on "Advances in Fish Physiology: Ecological Considerations", Department of Zoology, Banaras Hindu University. March 20 - 21, 2004.
  20. National Colloquium on "Catfish Physiology", Department of Zoology, Banaras Hindu University. Nov. 19 - 20, 2002.
  21. "Perspectives of Biodiversity, Ecophysiology and Conservation of Freshwater Animals" Department of Zoology, Tilkamanjhi Bhagalpur University, Sept. 9 - 11, 2002.

#### **Workshop/Training Programme Attended**

1. National Workshop on Biostatistics, Zakir Husain Delhi College, J.L.N Marg. Delhi. (March 09-10, 2017).
2. 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).
3. Workshop cum camp on "Foldscope Explore: Exploring the Microcosmos", Sri Venkateshwara College, Delhi University, New Delhi (December 16, 2015).
4. 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)
5. 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)

6. CME-cum-Workshop on "Electron Microscopy in Medical Research", Department of Anatomy, Institute of Medical Sciences, Banaras Hindu University, Varanasi (December 26, 2008)
7. 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)
8. 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)
2. Indian Society of Comparative Endocrinology (Life Member)
3. The American Association for the Advancement of Science (Member)

#### **Other Activities**

1. **Reviewer**, Anatomia, Histologia, Embryologia, Wiley Online Library
2. **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).
3. **Guest of Honor** for 'GENESIS 2017', an Inter-Institutional Science Festival at School of Biosciences, IMS Ghaziabad (November 2, 2017)