



Title	Dr.	First Name	Kuntal	Last Name		
Designation		Assistant Professor				
Address		Department of Zoology, Gargi College, University of Delhi, Siri Fort Road, New Delhi -110 049, India				
Phone No Office		011-26494544				
Residence*						
Mobile*						
Email		kuntal.kalra@gmail.com ; kuntal@gargi.du.ac.in				
Web-Page						
Educational Qualifications						
Degree		Institution			Year	
Ph.D. (Zoology)		School of Life Sciences, Khandari Campus Dr. B. R. Ambedkar University, Agra.			2004	
M.Phil. (Zoology) With Distinction		School of Life Sciences, Khandari Campus Dr. B. R. Ambedkar University, Agra.			2002	
M.Sc. (Zoology) 1 <sup>st</sup> Division		School of Life Sciences, Khandari Campus Dr. B. R. Ambedkar University, Agra.			2000	
B.Sc. (Medical)		Govt. College , Faridabad ,Affiliated to M.D. University ,Rohtak			1998	
Career Profile						
<ul style="list-style-type: none"> <li>• Assistant Professor at Gargi College, University of Delhi (From 14-10-2015 to till date)</li> <li>• Assistant Professor in Manav Rachna International University, Faridabad (From 21-1-2008 to 13-10-2015 on regular basis)</li> <li>• Lecturer in D.A.V Cenetary college, Faridabad (From July 2007 to December 2007)</li> <li>• Lecturer in Saraswati Mahila Mahavidhalay College, Palwal (From 2005 to 2007)</li> </ul>						
Administrative Assignments						
<ul style="list-style-type: none"> <li>• Deputy Superintendent for Examinations in MRIU</li> <li>• Timetable Coordinator in MRIU</li> <li>• Member, Departmental NAAC Committee in MRIU</li> <li>• Internal Assessment Evaluation</li> <li>• Updating of Subjects Content</li> <li>• Course Mentorship</li> <li>• Class Mentorship</li> <li>• Supervision of M.Sc. dissertation</li> </ul>						

<ul style="list-style-type: none"> <li>• Industrial or Field Visits</li> <li>• Coordinator, Career Placement Division , MRIU</li> </ul>
<b>Areas of Interest / Specialization</b>
<ul style="list-style-type: none"> <li>• Fundamental of Biochemistry</li> <li>• Metabolic Biochemistry</li> </ul>
<b>Subjects Taught</b>
Biochemistry, Immunology, Chordata, Non Chordata, Cell Biology, Introduction to Biology, Enzyme Technology, Food Biotechnology, Evolutionary Biology , Environmental Science.
<b>Publications</b>
<ol style="list-style-type: none"> <li>1. Kalra K and Kumari R, Isolation and production of inulinase from banana peel by using <i>Aspergillus niger</i> under submerged fermentation. <i>International J Scientific and Res. Publications</i> , 2017, 7 ( 3):454-461</li> <li>2. Kalra K and Tomar P (2014) Stem Cell: Basics, Classification and Applications , American Journal of Phytomedicine and Clinical Therapeutics, [2][7][2014]919- 930 (SJIF-3.266, IF-0.69)</li> <li>3. Kalra K and Shavez M (2014) Production of Laccase from Banana Skin by Trametes Hirsuta In Solid State and Submerged Fermentation, Asian J Biochemical and Pharmaceutical Research, Issue 2 (Vol. 4):221-231(GIF-0.456 and JIF -2.56)</li> <li>4. Kalra K., Chauhan R.,Shavez M. and Sachdeva S (2013) Isolation of Laccase producing Trichoderma Spp. And effect of pH and Temperature on its activity, Int. J Chemtech Res.,5(5):2229-2235. (Listed in SCOPUS and Elsevier).</li> <li>5. Kalra K and Agarwal A (2013) Alterations in Blood Enzymes following nitrogen dioxide exposure in albino rat. Poll. Res.,32(1):147-150(NAAS rating:4.75, Scopus h index 18)</li> <li>6. Shourie A and Kalra K (2013) Analysis of phytochemical constituents and Pharmacological properties of <i>Abrus precatorius L.</i>, Int J Pharm Bio Sci 2013 Jan; 4(1): (P) 91 – 101.(Impact Factor-0.47 ,Elsevier indexed)</li> <li>7. Chapadgaonkar S and Kalra K (2012) Alternatives to animal experimentation in research and education ,International journal of Innovations in Biosciences , 2(3): 142-145</li> <li>8. Kalra K and Agarwal A (2011) Effects of nitrogen dioxide inhalation on blood glucose level in albino rat. Asian J. Exp. Biol. Sci., 2(4):772-776.</li> <li>9. Kuntal Kalra and Shilpa Chapadgaokar (2011): Probiotics: Health benefits and Side effects.M.R. Int. J. Engg. &amp; Techn. 3 (1):29-33</li> <li>10. Agarwal A and Kalra K (2003) Effects of nitrogen dioxide inhalation on certain haematological parameters in albino rat. Poll. Res. 22(2): 217-219.)(Impact factor:3.4, Scopus h index 14) Kalra K and Kumari R, Isolation and production of inulinase from banana peel by using <i>Aspergillus niger</i> under submerged fermentation. <i>International J Scientific and Res. Publications</i> , 2017, 7 ( 3):454-461</li> </ol>
<b>Research Guidance</b>
<ul style="list-style-type: none"> <li>• M. Sc. Dissertation- 03</li> <li>• Academic Research Projects- 05</li> <li>•</li> </ul>

## Recent Publications (e chapters/Book Chapter)

### E-chapters

- Kuntal Kalra, Paper –Molecular Therapeutics, Module-Biology of Protozoan diseases, ePGPathshala, UGC-MHRDC, August 2017, <https://youtu.be/TCn7LtdsvOo>
- Kuntal Kalra, Paper –Molecular Therapeutics, Module-Biotherapy of Protozoan diseases, ePGPathshala, UGC-MHRDC, August 2017, <https://youtu.be/jJkmwvWBbd8>
- Book chapter/ echapter / Study material: B.Sc Honors (Biochemistry) Programme, Core course – Hormones: Biochemistry and Function, Unit 5- Reproductive Hormones, Indira Gandhi National Open University, Maidan Garhi, New Delhi.
- Book chapter/echapter / Study material: B.Sc Honors (Biochemistry) Programme, Core course – Hormones: Biochemistry and Function, Unit 6- Growth hormones and Factors, Indira Gandhi National Open University, Maidan Garhi, New Delhi.
- Book chapter/echapter /Study Material: B.Sc Honors (Biochemistry) Programme, Core course: Basic Microbiology, Unit 9: Protozoa, Indira Gandhi National Open University, Maidan Garhi, New Delhi.

### Book chapter

- Kalra K. Ancient, Classical and Modern Biotechnology, Indian and Western Knowledge Traditions, CPDHE, DU. ISBN No. 978-93-85144-82-0, 2016 ,72-79.

## Abstracts Presented

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 and (December 19-21 7 2019).
2. Sakshi daver, Prabhleen Kaur, Madhu Yashpal and Kuntal on “Nanotechnology: There is plenty of room at the bottom” in International Conference on "Stewardship towards Sustainability" on 6th and 7th September, 2019 at SGT University, Gurgaon.
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 1<sup>st</sup> 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 1<sup>st</sup> 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 3<sup>rd</sup> 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. Monika, Manisha Kumari, Kuntal Kalra and Madhu Yashpal, 2017, 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, India Habitat Centre, Lodhi road ,New Delhi . 20-21 November 2017,37pp
11. Madhu Yashpal and Kuntal, Effects of Repeated Oral Exposure of Silver Nanoparticles on Liver of Mice, International Conference on Nanobiotechnology for Agriculture: From Research to Innovation (NanoForAgri), Organised by TERI, India Habitat Centre, Lodhi road ,New Delhi . 20-21 November 2017,39pp. •
12. Shilpa C and Kalra K. (2011). “Use of Integrated tools to reduce animal experimentation” in National Conference on “Ethics, Values and Morality: Concept, Theory & Practice, May 28, 2011, Deptt. Of Humanities and management, FET, MRIU.
13. Kuntal Kalra and Pushpa C.Tomar (2010). Stem cell: A Boom in Medical Surgery. Abstract in proceedings of National conference on Medical Biotechnology: vision 2010.
14. “Effect of nitrogen dioxide inhalation on blood glucose in albino rat” in International conference on Water, Environment, Energy and Society at S.R.K ( P.G) college, Firozabad, Uttar Pradesh , 28- 30 June, 2009
15. Blood Enzyme alterations Following Nitrogen Dioxide Exposure in albino rat” in international conference at Aligarh Muslim University, 26-28 October, 2009

#### Conference /Seminar/FDP/ Presentations

1. Online Faculty Development Programme (FDP) on “ICT Enabled Teaching Learning” organized by Janki Devi Memorial College in collaboration with TLC, Ramanujan College, New Delhi under MHRD-sponsored PMMMMNTT Scheme from 7-9-2020 to 13-9-2020.
2. Online Webinar on ‘Entomology in Criminal Investigations organized by Department of Zoology, Gargi College ,University of Delhi on 22-8-2020
3. Training Programme on "Institutional Quality Measures for Administration" organized by IQAC, Gargi College (University of Delhi), New Delhi, India from 17-6-2020 to 18-6-2020.
4. National Webinar on “Fighting Pandemics with Artificial Intelligence organized by Department of Microbiology, Gargi College (University of Delhi), New Delhi, India on 29-5-2020.
5. National Webinar on “Intellectual Property Rights – A Kaleidoscope of Opportunity” organized

- by Department of Microbiology, Gargi College (University of Delhi), New Delhi, India on 23-5-2020.
6. Online Faculty Development Program on Teaching Techniques with Gamification organized by ICT Academy on 19 May 2020
  7. National Webinar on 'Virtual Classes Tools: Google classroom, Google meet and YouTube' organized by Department of Botany, Gargi College, University of Delhi on 11-5-2020
  8. Webinar on 'COVID-19: Managing Challenges and Exploring Opportunities' organized by Add on Courses Committee, Gargi College, University of Delhi on 9-5-2020.
  9. International Conference on "Stewardship towards Sustainability" on 6th and 7th September 2019 at SGT University, Gurgaon.
  10. 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).
  11. 3<sup>rd</sup> 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).
  12. 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).
  13. 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).
  14. 2<sup>nd</sup> Task Force Meet under Star College Scheme (sponsored by DBT) organized by Gargi College University of Delhi, New Delhi (May 8-9, 2018).
  15. Participated in One day Symposium on "Wanderers of Nature: Exploring Wildlife" at Department of Zoology, Gargi College, New Delhi, organized by Albatross – Zoological Society of Gargi College, March 12, 2018.
  16. Attended National Conference on "Technological Empowerment of Women" at Vigyan Bhavan, New Delhi organized by National Academy of Sciences, India (NASI), March 8-9, 2018
  17. Attended NAAC sponsored National Seminar on "Mentoring the Teacher- Mentors: Capacity Building Programme organized by Gargi College, IQAC, University of Delhi. 19-20 January, 2018
  18. Attended Two days Science Academics Lecture Workshop on "Ingenuity in Biological Sciences" organized by Department of Zoology, Gargi College, DU, 11- 12 January, 2018
  19. Participated in International Conference on " Nanobiotechnology for agriculture from research to innovation, organized by TERI at India Habitat Centre, Lodhi
  20. road, New Delhi. 20-21 November 2017.
  21. Attended National Workshop on Biostatistics, March 9-10, 2017, Organized by Department of Botany and Mathematics, Zakir Husain Delhi College, University Of Delhi
  22. 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, September 22-23, 2016
  23. One day Interactive Session on Foldscope Explore: Exploring the Microscopes, Sri Venkateshwara College, Delhi University, New Delhi on Dec. 16, 2015
  24. FDP on "Emerging Technologies-Catalyst for Professional Education Reforms, Quality Assurance, Teaching Learning Process, Assessment and Delivery" held at MRIU with IEEE Computer Society Delhi Section on 26 August, 2015
  25. One Day FDP on "Administrative systems of India", Feb. 14, 2015. at MRIU sponsored by IQAC.
  26. One Day FDP on "Promoting Quality of Academic Environment Through Soft skills", December

<p>18 ,2014,Academic Staff College,MRIU</p> <p>27. Two Days All India Seminar on “Biomass Utilization” on May 17-18, 2013, organized by IEI and Deptt. of Biotech ,FET ,MRIU</p> <p>28. One day International workshop on “BIOFUEL” organised by Lahti University of Applied Sciences and Deptt. Of Biotechnology at MRIU on November 5,2012.</p> <p>29. Two days National workshop on “Geo-Cloud computing and Cryptology” sponsored by DST and DRDO at MRIU on September 21-22,2012.</p> <p>30. One day workshop on “IPR: Opportunities and strategies” at FET,MRIU on 1<sup>st</sup> September,2012.</p> <p>31. Three days Faculty Development Programme on “Current Global Pedagogical Practices” at MRIU, Faridabad from 17<sup>th</sup> May to 19<sup>th</sup> May,2012.</p> <p>32. Two days Techno Carnival “Science Conclave and Exhibition”, 27-28 Jan., 2012, at MRIU campus and sponsored by Deptt. Of Science and Technology Govt. of Haryana and MRIU.</p> <p>33. Three days International Symposium On <i>Recent Advances in “Green Chemistry” and Chromatography Sciences” 12-14th January, 2012</i> at Manav Rachna International University Faridabad Organized by Indian Society of Analytical Scientists</p> <p>34. Three Days Indo-Spanish Workshop on Health and Medical Research, 22-24<sup>th</sup> Nov. 2011, organized by CII and Deptt. Of Science and Technology, Govt. of India. New Delhi, India</p> <p>35. One day National Seminar on “Molecular Techniques- The face of Modern Sciences” at DDE Conference Hall , Maharishi Dayanand University , Rohtak , on October 24 ,2011.</p> <p>36. One Day National Conference on “Ethics, Values and Morality: Concept, Theory &amp; Practice, May 28, 2011, Deptt. Of Humanities and management, FET, MRIU.</p> <p>37. One day Global Symposium on “Stem Cell Technology”, 7 November, 2010 at Deptt. Of Biotechnology, FET, Manav Rachna International University.</p> <p>38. Three days <i>International Conference on Emerging Technologies in Environmental Science and Engineering</i>. Aligarh Muslim University, Aligarh, India. October 26–28, 2009</p> <p>39. Two days national workshop -cum-conference on “environmental impact through efficient management of solid waste: technology impetus &amp; policy transformation” jointly organised by indian institute of technology (IIT) delhi, search foundation &amp; hinge services. 10-11 September, Delhi.</p> <p>40. International conference on Water, Environment, Energy and Society at S.R.K ( P.G) college, Firozabad, Uttar Pradesh , 28- 30 June, 2009</p> <p>41. National Seminar On “Career oppurtunities in biotechnology” at CITM, Manav Rachna International University, Faridabad. 18 April, 2009.</p> <p>42. National Conference on Recent Advances in Chemical Sciences ( NCRACS) on “Food and Drug Research” Govt. Dungar College, Bikaner, 3-5 Oct. 2008</p> <p>43. Two days’ workshop on “understanding and implementation of Environment management systems” Noida, 9-10 Feb. 2008</p>
<p><b>Research Projects (Major Grants/Research Collaboration)</b></p> <ul style="list-style-type: none"> <li>• Academic Research Projects- 05</li> </ul>
<p><b>Awards and Distinctions</b></p> <ul style="list-style-type: none"> <li>• Gold medal in M.Phil.</li> <li>• University Fellowship during Ph.D.</li> </ul>

#### Association With Professional Bodies

- Indian Society of Analytical Scientists (Till 2009)
- Indian Society of Technical Education (Till 2009)

#### Other Activities

- Online Faculty Development Programme (FDP) on “ICT Based New Paradigms of E-Teaching and E-Learning: Digital Pedagogy” organized by TLC, Ramanujan College in association with Research Development and Services Cell, Ramanujan College, University of Delhi and Department of Computer Science, Mata Sundri College For Women, University of Delhi under MHRD-sponsored PMMMNMTT Scheme from 15-9-2020 to 30-9-2020.
- Attended “Refresher Course in Basic Sciences”, UGC-Human Resource Development Centre, Jamia Milia Islamia, New Delhi-110025 (5<sup>th</sup> November to 19<sup>th</sup> November, 2019).
- Attended Refresher Course in Life Sciences, UGC-Human Resource Development Centre, University of Delhi, New Delhi (July 17, 2018 to August 6, 2018).
- Attended Orientation Programme (OR-87), 25<sup>th</sup> November 2016 to 23<sup>rd</sup> December 2016 organized by CPDHE (UGC-HRDC) Academic Research Centre Building Opposite SGTB Khalsa College University of Delhi.
- Resource Person: Summer Immersion Program 2018 (Supported by DBT Star College Scheme in association with IQAC) organized by Department of Zoology, Gargi College, University of Delhi, New Delhi (July 11-18, 2018).
- Certificate of appreciation in International Symposium on “Stem Cell” presented by Manav Rachna International University, Faridabad, held on 7<sup>th</sup> Nov 2009 in collaboration with SCGF.
- Appreciation award for successful organization of “Science conclave & Exhibition” held in FET, MRIU, Faridabad, Haryana, India on 27<sup>th</sup> -28<sup>th</sup> Jan, 2012.
- Appreciation award for successful organization of National seminar on “Bio Mass Utilization” held on 17<sup>th</sup> -18<sup>th</sup> May 2013.