




## Faculty Details proforma for Gargi College

Title	DR	First Name	SUPRIYA	Last Name	SINGH	Photograph
Designation		Assistant Professor				
Address		Department of Zoology Gargi College, Siri Fort Road, New Delhi-110049 INDIA				
Phone No Office						
Residence* Mobile*		+91-9871255147				
Email Web-Page		supriya.singh@gargi.du.ac.in				
<b>Educational Qualifications</b>						
Degree		Institution			Year	
Ph.D.		National Centre for Disease Control (NCDC), Delhi, Affiliated to GGSIP University, INDIA & The Peter Medawar Building for Pathogen Research, University of Oxford, UK			2016	
M.Sc. Zoology		Department of Zoology, Hand Raj College, University of Delhi, INDIA			2008	
B.Sc. Zoology (Hons)		Department of Zoology, Hand Raj College, University of Delhi, INDIA			2006	
<b>Career Profile</b>						
<b><u>Teaching Experience</u></b>						
<b>Assistant Professor (January 2015 - Present)</b> Department of Zoology, Gargi College						
<b><u>Research Experience</u></b>						
<ul style="list-style-type: none"> <li>• <b>Principal Investigator</b>, UGC-Faculty Research Promotion Scheme Start-Up Grant, for project entitled "Molecular Characterization of Human Immunodeficiency Virus (HIV) &amp; Impact of HLA on Viral Evolution "</li> <li>• <b>Commonwealth Scholar</b> (Visiting Student as Part of Overseas Education Institution Award) at The Peter Medawar Building for Pathogen Research, Department of Pediatrics, <i>University of Oxford</i>, Oxford, UK [February 2013 to July 2013, January 2014 to June 2014].</li> <li>• <b>Research Fellow (CSIR, Council for Scientific &amp; Industrial Research)</b> at the National Centre for Disease Control (Ministry of Health and Family Welfare, Govt. of India)</li> <li>• Worked in NACO's project, for "EARLY INFANT DIAGNOSIS OF HIV" with Dried Blood Spot and Whole Blood Samples.</li> <li>• Molecular diagnosis of various disease pathogens such as HIV, Hepatitis B, Swine Influenza, Tuberculosis.</li> <li>• Molecular epidemiology and phylogenetic analysis of viruses such as HIV, Hepatitis B.</li> </ul>						
<b>Administrative Assignments</b>						

<b>Areas of Interest / Specialization</b>
Molecular biology, Bioinformatics, Physiology, Virology, HIV/AIDS, Perinatal Infections, Reproductive Physiology
<b>Subjects Taught</b>
Animal Behavior and Chronobiology, Comparative Vertebrate Anatomy, Research Methodology, Physiology Computational Biology, Physiology, Evolutionary Biology, Ecology, Animal Diversity, Cell Biology, Genetics, Applied Biology & Biotechnology, Biochemistry
<b>Recent Publications</b>
<ol style="list-style-type: none"> <li>1. Ming-Han Chloe Tsai, <b>Supriya Singh</b>, Emily Adland, Philip Goulder. Impact of HLA-B*52:01 Driven Escape Mutations on Viral Replicative Capacity. <i>Journal of Virology</i>. DOI: 10.1128/JVI.02025-19.</li> <li>2. Uma Sharma, Poonam Gupta, Megha Singhal, <b>Supriya Singh</b>, Sunil Gupta, S. Venkatesh, Arvind Rai, Mohammad Husain. Comparative Genetic Variability in HIV-1 Subtype C nef Gene in Early Age Groups of Infants. <i>Journal of Medical Virology</i>. 89 (9), 1606-1619. 2017.</li> <li>3. Uma Sharma, Megha Singhal, <b>Supriya Singh</b>, Artee Chaudhary, Sunil Gupta, S. Venkatesh, Arvind Rai and Mohammad Husain. Early Screening of HIV-1 from Dried Blood Spots in Infants Born to HIV-1 Positive Mothers from North Indian States. <i>Clinical Research in HIV/AIDS</i>. (2016), 3(1): 1032.</li> <li>4. <b>Supriya Singh</b>, Shashi Khare, Sudha Prasad, R L Ichhpujani, S S Negi, Sachin Kumar, D S Rawat, Arvind Rai. Correlation of partial env gene sequences with disease progression parameters in HIV positive pregnant women from India. <i>Medical Microbiology and Immunology</i> (Springer, Germany). 2012: 201(3); 271-276.</li> <li>5. Shashi Khare, S S Negi, <b>Supriya Singh</b>, Megha Singhal, Sachin Kumar, D S Rawat, Arvind Rai. Genetic analysis of pre-core/core and partial pol genes in unprecedented outbreak of fulminant hepatitis B in India. <i>Epidemiology and Infection</i> (Cambridge University Journal, United Kingdom), Available on CJO 2012 DOI:10.1017/S0950268812000349.</li> <li>6. Sachin Kumar, Shashi Khare, Bano Saidullah, Inderjeet Gandhoke, Hanu Ram, <b>Supriya Singh</b>, L S Chauhan, Arvind Rai. Appearance of L90I and N205S Mutations in Effector Domain of NS1 Gene of pdm (09) H1N1 Virus from India during 2009–2013. <i>Advances in Virology</i>, 2014; 2014; <a href="http://dx.doi.org/10.1155/2014/861709">http://dx.doi.org/10.1155/2014/861709</a>.</li> <li>7. Poonam Gupta, Mohammad Husain, Charoo Hans, Hanu Ram, <b>Supriya Singh</b>, Mohammad Misbah, L S Chauhan, Arvind Rai. Sequence heterogeneity in human immunodeficiency virus type 1 <i>nef</i> in patients presenting with rapid progression and delayed progression to AIDS. <i>Archives of Virology</i> (Springer, Germany). 2014 Apr 19.</li> <li>8. Mohd Azam, Abida Malik, Meher Rizvi, <b>Supriya Singh</b>, Poonam Gupta &amp; Arvind Rai. Emergence of drug resistance-associated mutations in HIV-1 subtype C protease gene in north India. <i>Virus Genes</i> (Springer, Germany). 2013 Dec; 47(3):422-8.</li> <li>9. <b>Supriya Singh</b>, Shashi Khare, DS Rawat, Saaransh Jain, RL Ichhpujani, Sudha Prasad, Megha Singhal, LS Chauhan, Arvind Rai. Genetic characteristics of the hyper-variable region (V3-V5) of the env gene of HIV-1 distinguishing subtype C from subtype B. <i>International Journal of Advanced Biotechnology and Research</i>. 2013: 4 (1); 968-975.</li> <li>10. Sudha Prasad, Megha Singhal, Sanjay S Negi, Sunil Gupta, <b>Supriya Singh</b>, D S Rawat, Arvind Rai. Targeted detection of 65 kDa heat shock protein gene in endometrial biopsies for reliable diagnosis of genital tuberculosis. <i>European Journal of Obstetrics &amp; Gynecology and Reproductive Biology</i> (Elsevier, USA). 2012: 160 (2):215-8.</li> <li>11. Archana Choudhry, Shashi Khare, <b>Supriya Singh</b>, Simrita Singh, L S Chauhan. Meningococcal disease in India, 2005-2011: A Surveillance Study. <i>International Journal of Medicine &amp; Public Health</i>. 2012. 2(2). Doi 10.5530/ijmedph.2.2.7.</li> <li>12. Archana Choudhry, Nupur Gupta, <b>Supriya Singh</b>, Meena Dutta, Shashi Khare, L S Chauhan. Continued Persistence of Increased Subacute Sclerosing Pan Encephalitis cases in India, 2010- 2012. <i>Global Journal of Medicine and Public Health</i>. 2014: 2 (6), 2013: 2277-9604.</li> <li>13. Archana Choudhry, <b>Supriya Singh</b>, Shashi Khare, Arvind Rai, D S Rawat, R K Aggarwal, LS Chauhan. Emergence of Pandemic 2009 Influenza A H1N1, India. <i>Indian Journal of Medical Research</i>. 2012 Apr; 135(4): 534–537.</li> </ol>

Conference Organization/ Presentations
<ol style="list-style-type: none"> <li>1. <b>Co-convener</b> in the <i>International E-Conference "NeuroEunoia2020: A Neuroscience Affair"</i>, held on 16-17 October, 2020, hosted by <b>Gargi College</b>, under the aegis of IQAC.</li> <li>2. Presented poster entitled "<b>Molecular Characterization of DC SIGN Promoter in HIV Infected Pregnant Women</b>" at the 18th Symposium on Infections in the Immunocompromised Host, organized by the International Immunocompromised Host Society (ICHS), held at Langenbeck-Virchow Haus, Berlin, Germany, from 15-17 June, 2014.</li> <li>3. Delivered oral presentation on "<b>Impact of Maternal Feeding Practices and DC SIGN Receptor Polymorphisms on Vertical Transmission of HIV</b>", at the XXVth European Congress Perinatal Medicine (ECPM) held at 4-7th June, 2014 in Florence, Italy.</li> <li>4. Presented poster entitled "<b>Computational and Molecular Analysis of HIV release by Viral Protein U</b>" at the 2nd World Congress on Biomarkers and Clinical Research held at Baltimore, USA from 12-14th September 2011.</li> <li>5. Delivered oral presentation on "<b>Predilection of for G/G and G/C DEFB1 SNP types in HIV Infected Pregnant Women and Infants</b>" at the International Conference &amp; Exhibition on Virology held at Baltimore, USA from 5-7 September 2011.</li> <li>6. Presented poster entitled "<b>Correlation between V3-V5 sequences with co-receptor usage in HIV positive pregnant women</b>" at XVIIIth International Conference AIDS Conference held in Vienna, Austria from 18-23rd July 2010.</li> </ol>
Research Projects (Major Grants/Research Collaboration)
<ul style="list-style-type: none"> <li>• <b>UGC-Faculty Research Promotion Scheme Start-Up Grant</b>, for project entitled "Molecular Characterisation of Human Immunodeficiency Virus (HIV) &amp; Impact of HLA on Viral Evolution "</li> </ul>
Awards and Distinctions
<ul style="list-style-type: none"> <li>• <b>UK's Commonwealth Split-site Doctoral Scholarship</b>, 2012, by UK's Commonwealth Commission (funded by Department of International Health) to pursue part of doctoral research work. The work was done at the University of Oxford, UK, under Professor Philip Goulder.</li> <li>• Awarded full <b>travel scholarship</b> by the <i>International AIDS Society</i>, to attend the 5th IAS Conference on HIV Pathogenesis, Treatment and Prevention held in Cape Town, South Africa from 19-22 July 2009. The scholarship included registration fee, living allowance and airfare.</li> <li>• Awarded <b>Partial Investigator Travel Grant</b> for attending the 18th Symposium on Infections in the Immunocompromised Host, held at Langenbeck-Virchow Haus, Berlin, Germany from 15-17 June, 2014, for abstract entitled "Molecular Characterization of DC SIGN Promoter In HIV Infected Pregnant Women".</li> <li>• Awarded <b>Junior Research Fellowship and Eligibility for Lectureship (NET)</b> by the Council for Scientific and Industrial Research (CSIR) held on 22nd June, 2008.</li> </ul>
Other Activities
<ul style="list-style-type: none"> <li>• Participated in two-week <i>interdisciplinary refresher course/faculty development programme on Advanced Research Methodology Tools &amp; Techniques</i>, organised by Teaching Learning Centre, Ramanujan College, from 30 January to 14 February, 2021.</li> <li>• Completed <b>MicroMasters program in BIOINFORMATICS</b>, <i>University of Maryland</i>, Global Campus. June 2020.</li> <li>• <b>Co-convener</b> of the <b>National Webinar Series on the Current Global Pandemic of COVID-19</b>, organised by Gargi College, University of Delhi, held on May 1st, 2nd &amp; 5th, 2020.</li> <li>• Participated in <b>Refresher Course in Life Sciences</b>, at Centre for Professional Development in Higher Education (CPDHE), University of Delhi, from June 28 to July 11, 2019.</li> <li>• <b>Resource person</b> in Inter-College Hands-On-Workshop Biotechnology (under DBT-Star College Scheme &amp; IQAC), held at the Department of Zoology, Gargi College on 23rd and 24th December, 2019.</li> <li>• Member of course revision committee for "Comparative Anatomy of Vertebrates", 2019.</li> <li>• Member of course revision committee for "Biology of Animal: Form, Structure and Function", 2019.</li> <li>• Executive Editor for Departmental Magazine <i>Flight</i>, 2015-16.</li> <li>• <b>Resource Person</b> for Summer Immersion Program 2018 (supported by DBT Star College Scheme, in association with IQAC), conducted from July 11-18, 2018, by Department of Zoology, Gargi College. <b>Session on Primer Designing; Session on Introduction to Bioinformatics Tools (Uniprot and Pfam) for Protein Sequence Analysis.</b></li> </ul>