




Title	Dr.	First Name	SUPRIYA	Last Name	SINGH	
Designation		Assistant Professor				
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Educational Qualifications						
Degree		Institution			Year	
Ph.D. (Molecular Biology)		National Centre for Disease Control, Delhi <i>[Affiliated to Guru Gobind Singh Indraprastha University (GGSIPU), Dwarka]</i>			2017	
M.Sc. (Zoology)		Department of Zoology, University of Delhi			2008	
B.Sc. (Zoology)		Hans Raj College, University of Delhi			2006	
Career Profile						
<p>Assistant Professor (January, 2015 - Present) Department of Zoology, Gargi College</p> <p><i>Research Experience</i></p> <ul style="list-style-type: none"> • Commonwealth Scholar (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]. • Senior Research Fellow (CSIR) at the National Centre for Disease Control (Ministry of Health and Family Welfare, Govt. of India) (01.01.11-31.12.2013). • Junior Research Fellow (CSIR) at the National Centre for Disease Control, (Ministry of Health and Family Welfare, Govt. of India) • Worked in NACO's project, for "EARLY INFANT DIAGNOSIS OF HIV" with Dried Blood Spot and Whole Blood Samples. • Molecular diagnosis of various disease pathogens such as HIV, Hepatitis B, HCV, Swine Influenza, Tuberculosis. • Molecular epidemiology and phylogenetic analysis of viruses such as HIV, Hepatitis B, Dengue, Chikungunya. 						
<p>Executive Editor for the departmental magazine FLIGHT 2015-2016.</p>						
Areas of Interest / Specialization						
Molecular biology, Bioinformatics, Physiology, Virology, HIV/AIDS, Perinatal Infections, Reproductive Physiology						

Subjects Taught
Computational Biology, Physiology, Animal Behavior, Evolutionary Biology, Ecology, Animal Diversity, Cell Biology, Genetics, Applied Biology & Biotechnology, Biochemistry
Research Guidance
<ul style="list-style-type: none"> Supervised research project under DBT Star College scheme, entitled “Characterizing Clade-Specific Virus-Host Interactions in HIV infected clinically asymptomatic and AIDS presenting subjects”, 2015. Two students received Travel Grant [Travel Award from Research Council, University of Delhi, & Travel Award from HIV Queensland Foundation] to attend international conference (World STI & HIV Congress in Brisbane, Australia & Australasian HIV & AIDS Conference in Brisbane, Australia held in September, 2015).
Recent Publications
<ol style="list-style-type: none"> Uma Sharma, Poonam Gupta, Megha Singhal, Supriya Singh , Sunil Gupta, S. Venkatesh, Arvind Rai, Mohammad Husain. Comparative Genetic Variability in HIV-1 Subtype C <i>nef</i> Gene in Early Age Groups of Infants. <i>Journal of Medical Virology</i>. 2017;89(9), 1606-1619. Uma Sharma, Megha Singhal, Supriya Singh , Artee Chaudhary, Sunil Gupta, S. Venkatesh, Arvind Rai, 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. Supriya Singh, Shashi Khare, Sudha Prasad, R L Ichhpujani, S S Negi, Sachin Kumar, D S Rawat, Arvind Rai. Correlation of partial <i>env</i> gene sequences with disease progression parameters in HIV positive pregnant women from India. <i>Medical Microbiology and Immunology</i>. 2012; 201(3); 271-276. Shashi Khare, S S Negi, Supriya Singh , Megha Singhal, Sachin Kumar, D S Rawat, Arvind Rai. Genetic analysis of pre-core/core and partial <i>pol</i> genes in unprecedented outbreak of fulminant hepatitis B in India. <i>Epidemiology and Infection</i>. 2012; 140 (10): 1823-9. Sachin Kumar, Shashi Khare, Bano Saidullah, Inderjeet Gandhoke, Hanu Ram, Supriya Singh, 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 ;(10): 861709. Poonam Gupta, Mohammad Husain, Charoo Hans, Hanu Ram, Supriya Singh, 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>. 2014; 159(9): 2303-20. Mohd Azam, Abida Malik, Meher Rizvi, Supriya Singh , Poonam Gupta & Arvind Rai. Emergence of drug resistance-associated mutations in HIV-1 subtype C <i>protease</i> gene in north India. <i>Virus Genes</i>. 2013; 47(3):422-8. Supriya Singh, 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 <i>env</i> gene of HIV-1 distinguishing subtype C from subtype B. <i>International Journal of Advanced Biotechnology and Research</i>. 2013; 4(1); 968-975. Sudha Prasad, Megha Singhal, Sanjay S Negi, Sunil Gupta, Supriya Singh, 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 & Gynecology and Reproductive Biology</i>. 2012; 160 (2):215-8. Archana Choudhry, Shashi Khare, Supriya Singh , Simrita Singh, L S Chauhan. Meningococcal disease in India, 2005-2011: A Surveillance Study. <i>International Journal of Medicine & Public Health</i>. 2012; 2(2). Doi

10.5530/ijmedph.2.2.7.

11. Archana Choudhry, Nupur Gupta, **Supriya Singh**, Meena Dutta, Shashi Khare, L S Chauhan. Continued Persistence of Increased Subacute Sclerosing Pan Encephalitis cases in India, 2010- 2012. *Global Journal of Medicine and Public Health*. 2014; 2 (6), 2013: 2277-9604.
12. Archana Choudhry, **Supriya Singh**, Shashi Khare, Arvind Rai, D S Rawat, R K Aggarwal, LS Chauhan. Emergence of Pandemic 2009 Influenza A H1N1, India. *Indian Journal of Medical Research*. 2012;135(4): 534–537.

E-chapters

1. Contributed the Unit **Viruses** for the Discipline specific elective course '**Basic Microbiology**' for **B.Sc. (Hons.) Biochemistry Programme** of IGNOU, Nov 2017.

Conference Organization/ Presentations

1. Presented poster entitled "**Molecular Characterization of DC SIGN Promoter in HIV Infected Pregnant Women**" at the *18th Symposium on Infections in the Immunocompromised Host*, organized by the *International Immunocompromised Host Society (IHS)*, held at *Langenbeck-Virchow Haus, Berlin, Germany*, from 15-17 June, 2014.
2. Delivered oral presentation on "**Impact of Maternal Feeding Practices and DC SIGN Receptor Polymorphisms on Vertical Transmission of HIV**", at the *XXVth European Congress Perinatal Medicine (ECPM)* held at 4-7th June, 2014 in *Florence, Italy*.
3. Presented poster entitled "**Computational and Molecular Analysis of HIV release by Viral Protein U**" at the *2nd World Congress on Biomarkers and Clinical Research* held at *Baltimore, USA* from 12-14th September 2011.
4. Delivered oral presentation on "**Predilection of for G/G and G/C DEFB1 SNP types in HIV Infected Pregnant Women and Infants**" at the *International Conference & Exhibition on Virology* held at *Baltimore, USA* from 5-7 September 2011.
5. Presented poster entitled "**Correlation between V3-V5 sequences with co-receptor usage in HIV positive pregnant women**" at *XVIIIth International Conference AIDS Conference* held in *Vienna, Austria* from 18-23rd July 2010.

Research Projects (Major Grants/Research Collaboration)

1. **UGC-Faculty Research Promotion Scheme Start-Up Grant** for project entitled "Molecular Characterization of Human Immunodeficiency Virus (HIV) & Impact of HLA on Viral Evolution".

Awards and Distinctions

1. **UK's Commonwealth Split-site Doctoral Scholarship**, 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.
2. Awarded **Travel Grant** (Full scholarship) by the **International AIDS Society**, 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.
3. Awarded **Partial Investigator Travel Grant** 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"
4. **Travel Grant** of £600 by UK's Commonwealth Commission to attend conferences to cover Registration, Travel, Accommodation and other expenses.
5. Awarded **Junior Research Fellowship and Eligibility for Lectureship (NET)** by the Council for Scientific and Industrial Research (CSIR), June 2008.

Association With Professional Bodies

1. Reviewer - *Journal of Family Medicine & Community Health*.

Conferences/Workshops/Symposiums/Seminars Attended

1. Attended the 2nd Task Force meet under Star College scheme on 8th and 9th May, 2018, held at Gargi College, New Delhi.
2. Attended interactive session on FOLDSCOPE held at Gargi College, on December 16, 2015.
3. Attended National Conference on Combating Industrial Pollution for Sustainable Environment-A Fusion of Industrial and Scientific Efforts, held at Gargi College, University of Delhi on 22-23rd in September, 2016.
4. Attended Seminar on "Regulation of IgE Cell Differentiation and Memory", by Dr Maria Alicia Curotto de Lafaille, Singapore Immunology Network, held at The Peter Medawar Building Pathogen Research, University of Oxford, Oxford, UK on June 12, 2014.
5. Attended meeting Immune Response to Infections, ITA Askonas: Sixty Years of Immunology at the Royal Society, London, United Kingdom, organized by the British Society of Immunology, from 7th -8th April, 2014.
6. Attended BSI Oxford Immunology Group Annual Meeting at the SAID Business School, Oxford, UK, organized by the British Society of Immunology, from 31st March-1st April, 2014.
7. Attended seminar entitled "The Role of T Cells in Acute versus Chronic HCV infection" by Prof Georg M. Lauer, from The Massachusetts General Hospital, Harvard Medical School, Boston, on 22 May 2013 at Peter Medawar Building for Pathogen Research, University of Oxford, Oxford, UK.
8. Attended seminar entitled "The HIV-macrophage-T cell dance" by Prof Quentin Sattentau from The Sir William Dunn School of Pathology, University of Oxford, UK, on 17 May 2013 at Peter Medawar Building for Pathogen Research, University of Oxford, Oxford, UK.
9. Attended seminar entitled "10yr national viral load trends in Barbados: Implications for treatment as prevention", by Prof Clive Landis from University of West Indies, Barbados, on 6th February, 2013 at Peter Medawar Building for Pathogen Research, University of Oxford, Oxford, UK.
10. Attended seminar entitled Redefining latent tuberculosis through immunology, by Professor Ajit Lalvani, on 1st February 2013 at Peter Medawar Building for Pathogen Research, University of Oxford, Oxford, United Kingdom.
11. Participated in 4th National Conference of AIDS Society of India, ASICON 2011 held at Lucknow, from December 16th to 18th, 2011.
12. Attended workshop on Calibration, Biosafety and Strategic Information Management (SIMS) from August 2nd - 4th, 2011 organized by National AIDS Control Organization (NACO) at National Centre for Disease Control, Delhi.
13. Participated at the National Conference on Tuberculosis: A Global Challenge held in Shimla, HP, India from 11th to 12th June.
14. Participated in the symposium on "World TB Day" held at AIIMS, New Delhi on March 29, 2011.
15. Participated in the 3rd Workshop on Bioinformatics and Molecular Modeling in Drug Design organized by ACBR, University of Delhi during 24-26 February 2011.
16. Attended and presented poster at French-Indian Inter-Academic Symposium on Infectious Disease held at NII, New Delhi from November 30th to December 3rd, 2010.
17. Participated in the International Symposium on Molecular Pathology & Applied Genomics, held at the India Habitat Centre, New Delhi, India on November 6 and 7, 2009.
18. Participated in the IUI Workshop on 9th October 2009, held at IVF & Reproductive Biology Centre, Department of Obstetrics & Gynecology, MAMC, Delhi.
19. Participated in the CME-Uterus-Related Infertility on 23rd September, 2010 held at MAMC, New Delhi.
20. Attended the 5th IAS Conference on HIV Pathogenesis, Treatment and Prevention held in Cape Town, South Africa from 19-22 July 2009.
21. Participated in the XVIII National Conference of Indian Virological Society organized by Department of Virology, PGIMER, Chandigarh, India from 12-13 December 2008.

