


## University Faculty Details Page on DU Web-site



Title	<b>Dr.</b>	First Name	<b>Manisha</b>	Last Name	<b>Yadav</b>	Photograph 
Designation	<b>Assistant Professor</b>					
Department	<b>Dr B. R. Ambedkar centre for Biomedical Research (ACBR)</b>					
Address (Campus) (Residence)	<b>North campus, University of Delhi, Delhi- 110007</b>					
	<b>B-15, Upper Ground Floor, Dr. Lohia Road, Adarsh Nagar, Delhi- 110033</b>					
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Web-Page	<b><a href="http://www.acbrdu.edu">www.acbrdu.edu</a></b>					
<b>Education</b>						
Subject	Institution	Year	Details			
<b>Ph.D.</b>	<b>Postgraduate Institute of Medical Education and Research (PGIMER), Chandigarh</b>	<b>July 2006</b>	<b>Thesis topic: Cysteine proteinase 30 activity in clinical samples and <i>Trichomonas vaginalis</i> isolates from symptomatic and asymptomatic patients and its correlation with reactive nitrogen intermediate levels.</b>			
<b>M.Sc. (Zoology Hons.)</b>	<b>Panjab University, Chandigarh</b>	<b>2001</b>	<b>Subjects: Zoology (Honours)</b>			
<b>B.Sc.</b>	<b>MCM DAV college, Panjab University, Chandigarh</b>	<b>1999</b>	<b>Subjects: Medical Group</b>			
<b>Career Profile</b>						
Organisation / Institution	Designation	Duration	Role			
<b>ACBR, University of Delhi, Delhi</b>	<b>Assistant Professor</b>	<b>2010-present</b>	<b>Teaching &amp; Research</b>			
<b>Lund University, Sweden</b>	<b>Research Assistant</b>	<b>2009-2010</b>	<b>Research &amp; Teaching</b>			
<b>Lund University, Sweden</b>	<b>Postdoctoral fellow</b>	<b>2006-2009</b>	<b>Research</b>			
<b>Administrative Assignments</b>						
2018-20	Member of committee of courses, ACBR, University of Delhi					
2012-14	Coordinator of M. Sc Dissertation project distribution					
2013-14	Deputy superintendent of M. Sc Theory examination					
2013-15	In-charge of Animal House of ACBR, DU					
2013- 16	Member Secretary of Institute Animal Ethics Committee (IAEC), ACBR, University of Delhi					
2010-13	Member of Technical committees of ACBR, University of Delhi					
2010-13	Member of Bio-safety committee of ACBR, University of Delhi					
2010-till date	Coordinator/Examiner of Medical Microbiology, Human Physiology of M.Sc at ACBR, DU, Delhi.					
2012-13	Coordinator of M.Sc Practical Examination					
2010-2016	Anti-Ragging Nodal Officer at ACBR					
2010-2016	Anti-Eve Teasing Nodal Officer at ACBR					
2012-2016	Nodal officer for NE states welfare students					
2011-14	Member of Department Research Committee					
2013-17	Member of Bill committees of ACBR, University of Delhi					
2016-18	Member of AMC committees of ACBR, University of Delhi					

## Research Interests / Specialization

### Medical Microbiology & Immunology:

My Laboratory is working to identify the host receptors and the host-parasite's pathways involved in the symptomatic and asymptomatic sequelae and immune evasion caused by Trichomoniasis, Sepsis and Urinary Tract Infections (UTI). Since there is an urgent need to understand and prevent the negative impact of this parasite on women's reproductive health and to prevent the risk of other associated sexually transmitted diseases.

We are also working to identify the host molecules responsible for acute inflammation and particular virulence factors triggering the inflammatory pathway after Uropathogenic *E. coli* (UPEC) infection. Ultimately identification of target molecules either in the host or in bacteria may prove to be a better approach to win over this disease.

The complexity of the acquisition and spread of Multiple Drug Resistant (MDR) phenotypes pose a significant threat to human health. As they entail serious therapeutic challenges due to their ability to withstand the effect of different classes of antimicrobial agents. So there is an urgent need to update the antibiotic resistant pattern prevalent worldwide for improving the empirical prescription of general practitioners regarding antibiotics usages during most common community acquired infections like UTI. There is also a need of investigating the mechanism behind antibiotic resistance by devising different strategies in order to better understand such diseases. We are looking out for a possible mechanism or factor(s) behind the antibiotic resistance by investigating antibiotic susceptibility pattern and clonal group pattern in *E. coli* worldwide, along with our international collaborators. These studies will be helpful to understand the role of antibiotic susceptibility pattern & clonal groups, which can be further exploited as a therapeutic means for the treatment of UTI infection.

## Teaching Experience (Subjects/Courses Taught)

Teaching Master /PhD students of Biomedical Sciences in Dr B. R. Ambedkar Centre for Biomedical Research, University of Delhi.

**MSc (1<sup>st</sup> year):** Medical Microbiology (Theory & Practicals)  
Human Physiology-I (Theory)

**MSc (2<sup>nd</sup> year):** Genome Biology (Special paper)  
Human Physiology-II (Theory & Practicals)

### PhD Course work:

## Research Guidance

*List against each head (If applicable)*

1. **Supervision/Co-Supervision of awarded Doctoral Thesis: Two (D Nagarjuna; Kiran Yadav)**
  1. **D Nagarjuna:** Molecular Characterization of virulence genes in Pathogenic *E.coli* causing Nosocomial Infections: Degree awarded Feb 2017.
  2. **Kiran Yadav (Co-supervisor):** Formulation, optimization, evaluation and in vitro anticancer study of noscapine nanoparticles. Degree awarded March 2017.
2. **Supervision of Doctoral Thesis, under progress: Four**
  1. **Vivel Verma (CSIR-SRF):** Study of Inflammatory mechanism behind the Urinary tract infections.
  2. **Nasreen Banu (SRF-ICMR):** Role of NF-kB pathway on Transcriptional Regulation of HPV oncogene expression in Oral precancer and cancer cells.
  3. **Sonal Yadav (CSIR-JRF):** Toll Like Receptor mediated molecular mechanism of Trichomoniasis.
  4. **Surbhi Gupta (ICMR-JRF):** Understanding the association between the prevalence of antibiotic resistance and CRISPR repeats in Uropathogenic *E.coli* (UPEC) causing Urinary Tract Infection.

**3. Supervision of awarded M. Sc dissertations:** Nineteen (n=19)

1. D Nagarjuna, May 2012. ' Genotypic characterization of virulence factors among clinical isolates of Uropathogenic *E. coli* from Urosepsis patients'.
2. Abdesh Dhakar, May 2012. 'Phenotypic characterization of virulence factors among clinical isolates of Uropathogenic *E. coli* from Urosepsis patients'.
3. Anita Yadav, Aug 2012. 'Type 1 Fimbriae: An important virulence factor in clinical isolates of Uropathogenic *E. coli* from Urosepsis patients'.
4. Rahul Dobriyal, May 2013. To study the Adherence factors in Rectal and Pus Escherichia coli isolates from Sepsis patients.
5. Bhabatush Biswas, May 2013. FimH and PapC are important for Escherichia coli causing recurrent urinary tract infection in women.
6. Smita Kiran, May 2014. GRK 2/3 regulates stimulation of cytokine IL-8 and TNF- $\alpha$  during mycobacterial infection.
7. Rahul Ranjan, May 2014. CXCR1 and CXCR2 regulate the inflammatory response during mycobacterial infection.
8. Preeti Yadav, May 2014. Identification of *E. coli* pathotypes by multiplex PCR from Clinical isolates from sepsis patients.
9. Vaishnavi Srivastava, June 2014. Standardization of the different genes for the diagnosis of different microorganisms such as *E. coli*, symptomatic & asymptomatic in *Trichomonas vaginalis*.
10. Anupama Miglani, June 15. Identification of potent ESBL producers among *E. coli* isolates.
11. Jannat, June 2015. Study of Prevalence Of ST131 and Ciprofloxacin Resistance Among *E. coli* isolates.
12. Priyanka, June 2015. Study of the involvement of inflammasomes in mature Interlukin-1 $\beta$  release during urinary tract infection.
13. Bhawna Aggarwal, Dec 2015. Clonal, Expression and purification of inactive hemolysin (hlyA).
14. Ankita Rawat, May 2016. Expression, purification and functional characterisation of Uropathogenic *E. coli*  $\alpha$ -hemolysin.
15. Avneet Kaur Babbar, June 2016. To study the interaction of myeloid translocation gene 16 (MTG16) with hypoxia inducing factor-1 alpha (HIF-1 $\alpha$ ).
16. Kumud Sahni, June 2016. Role of NLRs (Nod-Like Receptors) in uropathogenic *E. coli* infected UTI patients.
17. Anamika, June 2017. Comparative analysis between triplex PCR and quadruplex PCR for identification of *E. coli* phylogroup.
18. Manish Kumar, July 2017. Determination of Phylogenetic groups and Antimicrobial resistant genes by PCR method.
19. Alpa Insha, July 2017. Identification of *E. coli* phylogenetic groups by quadruplex PCR.

**4. Supervision of awarded B. Tech dissertations:** Three

1. Nitya Kaushik, May 2011. 'Diagnosis of Tuberculosis using different PCR Techniques'.
2. Tanya Pandey, May 2014. Characterization of adherent *E. coli* in blood isolates.
3. Sachin Sharma, May 2014. Characterization of *E. coli* in fecal isolates.

**5. Supervision of M.Sc dissertations, under progress:** Two

1. Rhea Dadra, 2017-18.
2. Pooja Kumari, 2017-18.
3. Aarti, 2017-18.

**6. Supervision of B.Sc/ M.Sc Summer training:** Ten students

1. Ankita Sharma, June-July 2012.
2. Ruchi Gupta, June-July 2012.
3. Monisha Uppal, June-July 2013
4. P Yamini, June-July 2013
5. Tanya Pandey, June-July 2013
6. Vasu Goel, June-July 2014
7. Prabhat, June-July 2015
8. Manisha Kumar, June-July 2016
9. Arpita Bhatt, June-July 2017
10. Ashdeep Kaur, June-July 2017

**7. Supervision of Science Academy students (IASc-INSA-NASI)-Summer training: Four student**

1. M. Vinuthna vani, June-July 2014
2. Pronama Biswas, June-July 2014
3. Namrata Borah, June-July 2015
4. Bhawna Aggarwal, June-July 2015

**8. Research Co-Supervision of 10 Graduate Students at Lund University, Sweden (2006-2010)**

**Publications Profile**

List against each head (If applicable) (as Illustrated with examples)

**1. Books/Monographs (Authored/Edited): Not Applicable**

**2. Research papers published in Refereed/Peer Reviewed Journals:**

1. M. Nemati, N. Malla, **Manisha Yadav**, H. Khorramdelazad, A. Jafarzadeh. Humoral and T cell-mediated immune response against trichomoniasis. **Parasite Immunology**. 2018 Mar; 40(3). doi: 10.1111/pim.12510.
2. D. Nagarjuna, R. Gaind, RS Dhanda, **Manisha Yadav**. Whole Genome Shotgun sequence of *Escherichia coli* strain MN067 from India: A commensal with a potent pathogenic ability. **Genome Announcement**, 2017, 23; 5(12).
3. V Verma, RS Dhanda, NF Møller, **Yadav Manisha**. Inflammasomes and their role in innate immunity of Sexually Transmitted Infections. **Frontiers in Immunology**, 2016; 7:540.
4. SC Sonkar, S Yadav, N Malla, RS Dhanda, S Khurana, R Bagga, D Saluja, **Yadav Manisha**. Evaluation of DNA Based Techniques for the Diagnosis of Human Vaginal Trichomoniasis in North Indian Population. **British Microbiology Research Journal**, 2016; 17 (6): 1-12.
5. Jain S, Nagarjuna D, Gaind R, Chopra S, Dawar R, Sardana R, **Yadav Manisha** (2016). *Escherichia vulneris*: An unusual cause of complicated Diarrhoea and Sepsis in an infant. A Case report & Review of Literature. **New Microbes and New Infect**. 2016. DOI: 10.1016/j.nmni.2016.07.002.
6. Verma V, Nagarjuna D, Mittal G, Kumar P, Dhanda RS, Gaind R, **Yadav Manisha**. Data showing phenotypic profile of uropathogenic *Escherichia coli* isolates from sepsis patients. **Data Brief**. 2016 Jun; 7:
7. Verma V, Nagarjuna D, Kumar P, Dhanda RS, **Yadav Manisha**. Kinetics of cytokine profile in response to *Mycobacterium bovis* BCG and *Streptococcus pyogenes* activated cells. **Data Brief**. 2016 Jun; 7: 445-448.
8. Kumar T, **Yadav Manisha**, Singh LR. Role of osmolytes in regulating immune system. **Curr. Pharm. Des**. 2016 Mar 7.
9. D. Nagarjuna, R.S. Dhanda, G. Mittal, P.K. Verma, R. Gaind, **Manisha Yadav**. Fecal *Escherichia coli* isolates show potential to cause endogenous infection in patients admitted to ICU in a Tertiary Care hospital. **New Microbes and New Infections**. 2015 Jun;7: 57-66.
10. D. Nagarjuna, R.S. Dhanda, R. Gaind, **Manisha Yadav**. *tcpC* as a prospective new virulence marker in blood *Escherichia coli* isolates from sepsis patients admitted to the intensive care unit. **New Microbes and New Infections**, 2015; 7: 28-30.
11. Kiran Yadav, Deepak Yadav, **Manisha Yadav** and Sunil Kumar. Noscapine-loaded PLA Nanoparticles: Systematic Study of Effect of Formulation and Process Variables on Particle Size, Drug Loading and Entrapment Efficiency. **Pharmaceutical Nanotechnology**, 2015, Vol. 3 (2).
12. Kiran Yadav, Deepak Yadav, **Manisha Yadav** and Sunil Kumar. Noscapine Loaded PLGA Nanoparticles Prepared Using Oil-in-Water Emulsion Solvent Evaporation Method. **Journal of Nanopharmaceutics and Drug Delivery**. 2015; Vol. 3, 1-9.
13. Nancy Malla, K Goyal, Rakesh Singh Dhanda and **Manisha Yadav**. Immunity in Urogenital protozoa. In **Parasite immunology Sept 2014**, 36 (9), 400-408.
14. **Manisha Yadav**, D. Nagarjuna, RS Dhanda. Mycobacterium bovis Bacille Calmette-Guerin infection modulates GRK2/3 dependent cytokine secretion. **BMC Infectious Diseases**, 2014. 14 (Suppl 3), E20.
15. **Manisha Yadav**, Neha Verma and Rakesh Singh Dhanda. Impact of sexually transmitted infections on women health. **Health. Aug 2013**; 5(8): 1216-26.
16. B Köves, BN Stattin, **Manisha Yadav**, A Brauner, C Svanborg, Do *Escherichia coli* strains causing acute cystitis have a distinct virulence repertoire? **European Urology Supplements**, 2013; 12 (4), e1148, C40.
17. Norinder BS, Köves B, **Yadav Manisha**, Brauner A and Svanborg C. Do *Escherichia coli* strains causing acute cystitis have a distinct virulence repertoire? **Microbial Pathogenesis**, 2012 Jan; 52(1): 10-6.

18. M. Svensson, **Manisha Yadav**, B Holmqvist, N. Lutey, C. Svanborg and G. Godaly. Acute pyelonephritis and renal scarring are caused by dysfunctional innate immunity in mCxcr2 heterozygous mice. *Kidney International*, 2011 Nov; 80(10): 1064-72.
19. Norinder BS, Petra Luthje, **Manisha Yadav**, Lavinia Kadas, Hong Fang, Carl Erik Nord, and Annelie Brauner. Cellulose and PapG are important for Escherichia coli causing recurrent urinary tract infection in women. *Infection* 2011 Dec; 39(6): 571-4.
20. **Yadav Manisha**, Zhang J, Fischer H, Huang W, Lutay N, Cirl C, Lum J, Miethke T, Svanborg C. 2010. Inhibition of TIR domain signaling by TcpC: MyD88-dependent and independent effects on *Escherichia coli* virulence. *PLoS Pathogen*. 2010 Sep 23; 6(9).
21. Fischer H, Lutay N, Ragnarsdóttir B, **Yadav Manisha**, Jönsson K, Urbano A, Al Hadad A, Rämisch S, Storm P, Dobrindt U, Salvador E, Karpman D, Jodal U, Svanborg C. 2010. Pathogen-specific, IRF3-dependent signaling and innate resistance to human kidney infections. *PLoS Pathogen*. 2010 Sep 23; 6(9).
22. Arne Egesten, Anders I Olin, Helena M Linge, **Manisha Yadav**, Mattias Möregelin, Anna Karlsson and Mattias Collin. SpeB of *Streptococcus pyogenes* differentially modulates antibacterial and receptor activating properties of human chemokines. *PLoS ONE, March 2009; 4 (3): 1-9*.
23. Christine Cirl, Andreas Wieser, **Manisha Yadav**, Susanne Duerr, Sören Schubert, Hans Fischer, Dominik Stappert, Nina Wantia, Nuria Rodriguez, Hermann Wagner, Catharina Svanborg and Thomas Miethke. Subversion of Toll-like receptor signaling by a unique family of bacterial Toll/interleukin-1 receptor domain-containing proteins. *Nature Medicine*, 2008; 14(4): 399-406.
24. B Ragnarsdottir, H. Fischer, G Godaly, J Grönberg- Hernandez, M Gustafsson, D Karpman, AC Lundstedt, N Lutay, S Rämisch, ML Svensson, B Wullt, **Manisha Yadav**, C Svanborg. TLR- and CXCR1-dependent innate immunity: insights into the genetics of urinary tract infections. *European Journal of Clinical Investigation*, 2008; 38 (S2): 12-20.
25. **Manisha Yadav**, M.L.Dubey, I.Gupta, Gurjeet Bhatti & Nancy Malla. Cystine proteinase 30 in clinical isolates of *T.vaginalis* from symptomatic and asymptomatic infected women. *Experimental Parasitology*, 2007; 116 (4): 399-406.
26. **Manisha Yadav**, M.L.Dubey, I. Gupta & Nancy Malla. Cystine proteinase 30 (CP30) and antibody response to CP30 in serum and vaginal washes of symptomatic and asymptomatic *Trichomonas vaginalis* infected women. *Parasite Immunology*, 2007; 29(7): 359-365.
27. N. Malla, **Manisha Yadav** & I. Gupta. Kinetics of serum and local cytokine profile in experimental intravaginal trichomoniasis induced with *Trichomonas vaginalis* isolates from symptomatic and asymptomatic women. *Parasite Immunology*, 2007; 29(2): 101-105.
28. **Manisha Yadav**, ML Dubey, I Gupta and N Malla. Nitric oxide radicals in leucocytes and vaginal washes of *Trichomonas vaginalis* infected symptomatic and asymptomatic women. *Parasitology*, 2006; 132 (3): 339-343.
29. **Manisha Yadav**, N. Malla & I. Gupta. Kinetics of Immunoglobulin G, M, A and IgG subclass responses in experimental intravaginal trichomoniasis: Prominence of IgG1 response. *Parasite Immunology*, 2005; 27: 461-467.
30. **Manisha Yadav**, R. Nagill and S. Kaur. *Leishmania donovani*: Effect of pH on the infectivity of axenic amastigotes. *Journal of Parasitic diseases*, 2004; 28(2): 90-95.

#### Invited Speaker/ Conference Organization/ Presentations (in the last three years)

List against each head (If applicable):

##### 1. Invited Speaker:

1. Invited speaker in 10<sup>th</sup> Symposium on Frontiers in Biomedical Sciences (FBR-2015), at University of Delhi, Delhi, India in Oct 2015.
2. Invited speaker in 2nd International Science Symposium on HIV & Infectious Diseases (HIV SCIENCE 2014) BY YRG Centre for AIDS Research and Education, Chennai, India in Jan 2014.
3. Faculty Development Programme on "Advances in Biotechnology: Present Scenario" funded by TEQIP-II-2014. At IFTM University, Moradabad, UP in April 2014.
4. Summer Undergraduate Research Programme (SURP- 2014) at ACBR, Delhi University, Delhi in June 2014.
5. Invited Speaker in ICMR sponsored National Seminar on "Realization of Bioethics in Medical and Biological Research held at Dev Samaj College for women, Firozpur city, Punjab on 14<sup>th</sup> Feb 2014.
6. Invited Speaker in International conference at BIT Congress- Europe on Major Diseases Clinical Summit - 2013 at Warsaw, Poland from 5-7<sup>th</sup> November 2013.

7. Invited speaker in Sepsis congress-2013 on 'Genotyping by ERIC- PCR of clinical isolates of *E. coli* from sepsis patients' held at New Delhi, India from 6<sup>th</sup> -7<sup>th</sup> Dec 2013

**2. Organization of a Conference:**

1. In the Organizing committee of 32<sup>nd</sup> Convention of Indian Association for Cancer Research Emerging Trends in Cancer research: Road to prevention & cure & International Symposium on: Infection and Cancer February 13-16 2013.
2. In the Organizing committee of Frontiers in Biomedical Research was held at Dr. B. R. Ambedkar centre for Biomedical Research (ACBR) University of Delhi, Delhi from 14-16 April 2014.
3. Joint Organizing Secretary of Frontiers in Biomedical Research (FBR 2015) was held at Dr. B. R. Ambedkar centre for Biomedical Research (ACBR) University of Delhi, Delhi from Oct 29-31, 2015.
4. Organizing committee of Frontiers in Biomedical Research (FBR 2018) was held at Dr. B. R. Ambedkar centre for Biomedical Research (ACBR) University of Delhi, Delhi from Feb 19-21, 2018.

**3. Conference Oral Presentation:**

1. Sonal Yadav, Nancy Malla, Sumeeta Khurana, Rashmi Bagga, Rakesh Singh Dhanda, **Manisha Yadav**. To investigate the cytokines profile and TLR-1, TLR4 and TLR-5 response in *T. vaginalis* infected HeLa cells. at MICROCON- 2015 held at Pondicherry Nov 2015.
2. Parveen Kumar, Ram Ajore, Inge Olsson, Manisha Yadav, RS Dhanda. Regulation of Hypoxia inducible factor 1 alpha by Leukemia related myeloid translocation gene 16 reverts Warburg effect in Lymphoblastoid Raji cell lines. Presented at 10th Annual Symposium on FBR-2015 held at University of Delhi, Delhi from Oct 29-31, 2015.
3. Manisha Yadav on "*Mycobacterium bovis* BCG infection modulates GRK2/3 dependent cytokine secretion" at 2<sup>nd</sup> International Science Symposium on HIV & Infectious Diseases (HIV SCIENCE 2014), held at Chennai from 30<sup>th</sup> January - 01<sup>st</sup> February, 2014.
4. D. Nagarjuna, Rajni Gaiind and Manisha Yadav. '*Escherichia coli*: Is it a Commensal or Pathogen?' Presented at 9th Annual Symposium on Frontiers in Biomedical Research-2014 held at ACBR, University of Delhi, Delhi from April 14-16, 2014.
5. Oral Presentation for IAMM Junior Best paper award-2012 entitled '*Mycobacterium bovis* bacille Calmette-Guerin modulates alveolar inflammatory response by G protein-coupled receptor kinases regulation'. By **Manisha Yadav** at Indian Association of Medical Microbiology, MICROCON, Nov 2012 at Lady Hardinge Medical College, Delhi, India.

**4. Conference Poster Presentation:**

1. Daram Nagarjuna, Rajni Gaiind, Rakesh Singh Dhanda, Manisha Yadav. Phylogenetic and Pathotypes Analysis of Clinical *E. coli* Isolates from Blood and Feces. MICROCON-2015 held at Pondicherry Nov 2015.
2. Vivek Verma, Rakesh Singh Dhanda, Manisha Yadav. Study of the involvement of NLPP-3 inflammasomes in mature Interlukin-1 $\beta$  release during urinary tract infection. MICROCON-2015 held at Pondicherry Nov 2015.
3. Sonal Yadav, Nancy Malla, Sumeeta Khurana, Rashmi Bagga, RS Dhanda, Manisha Yadav. Analysis of cytokine level and TLR4 response in *T. vaginalis* infected cells. Presented at 10th Annual Symposium on FBR-2015 held at University of Delhi, Delhi from Oct 29-31, 2015.
4. D. Nagarjuna, Rajni Gaiind, RS Dhanda, Manisha Yadav. Phylogenetic association of virulence factors of *Escherichia coli* from sepsis patients admitted to ICU in a Tertiary Care Hospital. Presented at 10th Annual Symposium on FBR-2015 held at University of Delhi, Delhi from Oct 29-31, 2015.
5. Vivek Verma, RS Dhanda, Manisha Yadav. A role of nlrp-3 inflammasomes in release of interleukin-1b in UTI infections. Presented at 10th Annual Symposium on FBR-2015 held at University of Delhi, Delhi from Oct 29-31, 2015.
6. Surbhi Gupta, Manisha Yadav. Expression profile of angiogenesis-related genes in Pediatric Acute Lymphoblastic Leukemia. Presented at 10th Annual Symposium on FBR-2015 held at University of Delhi, Delhi from Oct 29-31, 2015.
7. Kiran Yadav, Deepak Yadav, Manisha Yadav, Sunil Kumar. Influence of formulation and processing parameters on fabrication of Noscapiine loaded poly (D, L-lactide) nanoparticles. Presented at 10th Annual Symposium on FBR-2015 held at University of Delhi, Delhi from Oct 29-31, 2015.
8. Sonal Yadav, Nancy Malla, Sumeeta Khurana, Rashmi Bagga, Rakesh Singh Dhanda, **Manisha Yadav**. To investigate the cytokines profile and TLR4 response in *T. vaginalis* infected HeLa cells. Presented at 38th National Conference of Indian Association for the study of Sexually Transmitted Diseases and AIDS (ASTICON 2014) held at PGIMER from 31 Oct – 2 Nov 2014.
9. Sonal Yadav, Nancy Malla, Rashmi Bagga, Rakesh Singh Dhanda, **Manisha Yadav**. Analysis of cytokine level

- in vaginal washes of trichomoniasis patients. Presented at 9th Annual Symposium on Frontiers in Biomedical Research (FBR-2014) held at University of Delhi, Delhi from April 14-16, 2014.
10. Vivek Verma, Nancy Malla, Rashmi Bagga, Rakesh Singh Dhanda, **Manisha Yadav**. Estimation of pro-inflammatory cytokine IL-1 $\beta$  response in UTI patients. Presented at 9th Annual Symposium on Frontiers in Biomedical Research (FBR-2014) held at University of Delhi, Delhi from April 14-16, 2014.
  11. D. Nagarjuna, Vivek Verma, Rakesh Singh Dhanda, **Manisha Yadav**. Role of CXCR1 and CXCR2 expression in the early phase of mycobacterium infection. Presented at 41st Annual Conference of the Indian Immunology Society (IMMUNOCON-2014) held at Madurai Kamaraj University, Madurai from 12 - 14 Dec. 2014.
  12. Shimpi Chopra, D. Nagarjuna, Sarika Jain, Rajni Gaiind, Monorama Deb, **Manisha Yadav**. *Escherichia vulneris*: a case report of invasive diarrhoea. Presented in IAMM Delhi Chapter held at MAMC, Delhi on 29th March 2014.
  13. D. Nagarjuna, Rakesh Singh Dhanda and **Manisha Yadav**. Genotyping of clinical isolates of *E. coli* among sepsis patients in Indian population presented at 2<sup>nd</sup> International Science Symposium on HIV & Infectious Diseases (HIV SCIENCE 2014), held at Chennai from 30<sup>th</sup> January -01<sup>st</sup> February, 2014.
  14. D.Nagarjuna, Vivek Verma, Sonu Kalshan, Rajni Gaiind, Rakesh Singh Dhanda, **Manisha Yadav**. 'Genotypic characterization of potential virulence factors among clinical isolates of *E. coli* from sepsis patients, presented at Indian Association of Medical Microbiology, MICROCON, Nov 2012 at Lady Hardinge Medical College, Delhi, India. **Poster Selected for Belgaum-Mumbai prize for best poster in Bacteriology.**
  15. **Manisha Yadav**, J singh, Rakesh S Dhanda. 'Understanding acute myeloid leukemia related ETO gene family member by MicroRNAs genomics', presented at **International Conference on Genes, Genetics and Genomics: Today & Tomorrow-Human concerns and 37<sup>th</sup> Annual Conference of the Indian Society of Human Genetics**, March 2012, at Panjab University, Chandigarh, India.
  16. **Manisha Yadav**, W Huang, H Fischer, J Zhang, T Miethke and C Svanborg. 'Inhibition of Toll/interleukin-1 receptor (TIR) domain signaling by TIR domain-containing protein (TcpC): myeloid differentiation factor-88 (MyD88)-dependent and independent effects on *Escherichia coli* virulence'. 14<sup>th</sup> **International Congress of Immunology**, August 2010, at Kobe, Japan.
  17. H Fischer, N Lutey, **Manisha Yadav**, A Al Hadad, D Karpman, and C Svanborg. 2010.'Pathogen-specific, IRF3 dependent ceramide/TLR4 in innate resistance to kidney infections''. 14<sup>th</sup> **International Congress of Immunology**, August 2010, at Kobe, Japan.
  18. **Manisha Yadav**, H Fischer, J Zhang, W Huang, T Miethke and C Svanborg. "Host TLR4 and adaptor protein genotypes modify the effects of TcpC on uropathogenic *Escherichia coli* virulence". 60<sup>th</sup> **Annual Conference of the Canadian Society of Microbiologists**: June 14th-17th, 2010, at McMaster University, Hamilton, Ontario, Canada.
  19. Birgit Stattin-Norinder, **Manisha Yadav**, P Luthje, C Svanborg, C.E Nord, and A Brauner. "Adhesive factors play an important role in *Escherichia coli* causing recurrent urinary tract infection''. 49<sup>th</sup> **Interscience Congress on Antimicrobial Agents and Chemotherapy**: Sept 12-15, 2009 at San Francisco, USA.
  20. **Manisha Yadav**, Hans Fischer, Thomas Miethke and Catharina Svanborg. "Subversion of Toll-like receptor signaling by a unique family of bacterial Toll/interleukin-1 receptor domain-containing proteins". **Blood and Defence**: 15-16th May 2008 at Ven, Helsingborg, Sweden.
  21. **Manisha Yadav**, M. L Dubey, Indu Gupta and Nancy Malla. "Cysteine Proteinase 30 (CP30) and antibody to CP30 in serum and vaginal washes of symptomatic and asymptomatic *Trichomonas vaginalis*-infected women". 11<sup>th</sup> **International Congress of Parasitology**: 4-11<sup>th</sup> Aug 2006 at Glasgow, Scotland UK.
  22. Kaur S., **Yadav Manisha** and Nagill R. "Increased infectivity of axenic amastigote like forms of *Leishmania donovani*". 91<sup>st</sup> **session of Indian Science Congress Association**: Jan 3-7, 2004 at Chandigarh, India.
  23. **Manisha Yadav**, Indu Gupta and Nancy Malla. "Kinetics of specific immunoglobulin G, M, A response in serum and vaginal secretions of Balb/c mice infected with *Trichomonas vaginalis* isolated from symptomatic and asymptomatic women". **XXVII National Conference of Indian Association Medical Microbiologists**: Nov.5-9, 2003 Mumbai.

#### Conference / workshop Presentations:

1. Attended 25<sup>th</sup> European Society of Clinical Microbiology & Infectious Diseases (ECCMID) held in Copenhagen, Denmark from 25-28 April 2015.
2. Attended 2 weeks international workshop on Laboratory Animals Science held at IGIB, Delhi, Nov 2013.
3. Attended National Conference on Recent Trends in Protein Structural Biology-2013 held at Jamia Millia Islamia, Delhi, December 2013.
4. Attended International Interdisciplinary Science Conference-2012 on Protein Folding and Diseases held at

<p>Jamia Millia Islamia, Delhi, December 2012.</p> <ol style="list-style-type: none"> <li>5. Attended PGI Golden Jubilee workshop on "Molecular Diagnosis for Parasitic Diseases: Conventional and Real Time PCR techniques " at PGIMER, Chandigarh, Sept 2012.</li> <li>6. Attended Springer Author Workshop at Delhi University, Delhi, August 2012.</li> <li>7. Attended national conference on "Recent advances in Pure and Applied Chemistry" held at ACBR, Delhi University, Delhi, Dec 2010.</li> <li>8. Attended symposium on "Parasitic infections then and now: with Special Reference to India" held in the Department of Parasitology, PGIMER, Chandigarh, Sept 2010.</li> <li>9. Attended workshop on Scientific Communication and Grantsmanship held at Stem Cell Centre, Lund University, Sweden, Sept 2009.</li> <li>10. Organizers of 2<sup>nd</sup> Symposium on HAMLET and Tumor-killing Proteins held at Deptt. of MIG, Lund University, Sweden, May 2009.</li> <li>11. Participated in UGC sponsored conference on "Trends in Parasitology" held at Panjab University, Chandigarh, Feb 2004.</li> <li>12. Participated in north-west chapter meeting of Indian Association of Medical Microbiologist (IAMM) held at central research institute, Kasauli, Nov 2003.</li> <li>13. Participated in national symposium on "Biotechnology: Expanding Horizons", held at INSA Auditorium, Bahadur Shah Jafar Marg, N. Delhi, Oct 2003.</li> <li>14. Organised CME cum workshop on "an update on diagnostic techniques for parasitic diseases" held in the Department of Parasitology, PGIMER, Chandigarh, Oct 2003.</li> <li>15. Participated in scientific symposium on "Proteomics": the emerging trends held at PGIMER, Chandigarh, Nov 2002.</li> <li>16. Attended north-west chapter meeting of Indian Association of Medical Microbiologist (IAMM) held at PGIMER, Chandigarh, Oct 2002.</li> </ol>				
<p><u>In Indexed/ Peer Reviewed Journals</u>  <b>More than 30 Publication in Journals</b></p>				
<p><u>Articles: Not Applicable</u></p>				
<p><u>Conference Presentations</u>  <b>More than 40 Conference Presentations</b></p>				
<p><u>Public Service / University Service / Consulting Activity</u>  <b>Not Applicable</b></p>				
<p><u>Professional Societies Memberships</u></p> <ul style="list-style-type: none"> <li>• Member of European Society of Clinical Microbiology &amp; Infectious Diseases (ESCMID, 2015-2020)</li> <li>• Life Member, Indian Association of Medical Microbiology, India</li> <li>• Member, Canadian Society of Microbiologists, Canada</li> <li>• Member, Swedish Association of Scientists, Sweden</li> <li>• Member, Swedish Association of University Teachers, Sweden</li> <li>• Member, Indian Science Congress Association, India</li> </ul>				
<p><b>Projects (Major Grants / Collaborations)</b></p>				
	Project	Year	Project title	Funding agency/Total sanctioned amount
1	Major	2017-19	Understanding the association between the prevalence of antibiotic resistance and CRISPR repeats in UPEC E. coli causing UTI.	DST-VR project (Indo-Swedish project)
2	Major	2013-16	Toll-like receptors and signalling mechanisms of T. Vaginalls isolates from asymptomatic and asymptomatic infected women	Department of Biotechnology, India



3	Major	2012-15	Toll-like receptor mediated molecular mechanisms and pathogenesis of <i>Trichomonas vaginalis</i>	Department of Science and Technology, India
4	Major	2010-11	Immunopathogenesis of Trichomoniasis	Delhi University, India
5	Minor	2014-15	Phylogenetic analysis among clinical isolates of <i>E. coli</i> from Sepsis patients admitted to ICU.	R & D grant, Delhi University
6	Minor	2013-14	Role of NLRP3 inflammasome in response to Uropathogenic <i>Escherichia coli</i> infection	R & D grant, Delhi University
7	Minor	2012-13	Prevalence of potential virulence factors among clinical isolates of UTI prone patients in India	R & D grant, Delhi University
8	Minor	2011-12	Pathogenesis and Toll-like receptor mediated molecular mechanisms of Trichomoniasis	R & D grant, Delhi University
9	Minor	2006-09	<i>CP30 activity in clinical samples and T. vaginalis isolates from symptomatic and asymptomatic patients: its correlation with reactive nitrogen radicals'</i>	Indian Council of Medical Research

#### Awards and Distinctions:

1. Received Long Term Foreign Fellowship for 12 months from Department of Health Research, Ministry of Health and Family Welfare, Govt of India for working in Copenhagen, Denmark, January 2018.
2. Received ICMR-International Fellow 2017-18 for 6 months from ICMR, Govt of India, for working in Copenhagen, Denmark. May 2017.
3. Received International Travel Grant from ICMR, Govt of India, for attending ECCMID conference in Copenhagen, Denmark. March 2015
4. Received International Travel Grant from Department of Science and Technology, Govt. of India, for attending international conference in Warsaw, Poland. Nov 2013
5. Nominated as External Expert in the Committee of Board of Studies (BOS) of School of Biotechnology of IFTM University, Moradabad UP Sept 2013
6. Rapid Grant for Young Investigator Award (RGYI) from DBT, India. 2012
7. FAST track for Young Scientist Award from DST, India. 2011
8. Maggie Stephens Stiftelse award at Lund University, Sweden. 2010.
9. Bill and Melinda Gates foundation ICOPA bursary award, Scotland, UK. 2006
10. Major General Amir Chand "Medal For Research For The Year 2005", PGIMER, Chandigarh, India. 2005.

(Signature of Faculty Member)

Dr Manisha Yadav

(Signature & Stamp of  
Head of the Department)