

Delhi University Faculty Details Page on DU Web-site



Title	Dr.	First Name	Manisha	Last Name	Yadav	Photograph
Designation		Professor				
Department		Dr B. R. Ambedkar centre for Biomedical Research (ACBR)				
Address (Campus) (Residence)		North campus, University of Delhi, Delhi- 110007				
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Education						
Subject		Institution		Year		Details
Ph.D.		Postgraduate Institute of Medical Education and Research (PGIMER), Chandigarh		July 2006		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.
M.Sc. (Zoology Hons.)		Panjab University, Chandigarh		2001		Subjects: Zoology (Honours)
B.Sc.		MCM DAV college, Panjab University, Chandigarh		1999		Subjects: Medical Group
Career Profile						
Organisation / Institution		Designation		Duration		Role
ACBR, University of Delhi		Professor		August 2021-present		Teaching & Research
ACBR, University of Delhi		Associate Professor		2018 - 2021		Teaching & Research
ACBR, University of Delhi		Assistant Professor		2010 - 2018		Teaching & Research
Rigshospitalet, Copenhagen, Denmark		ICMR-DHR International Fellow		2018-19 (1 years)		Research
Rigshospitalet, Copenhagen, Denmark		Guest Research Scientist		2016 (1 year)		Research
Lund University, Sweden		Postdoctoral fellow		2006-2010		Research
Administrative Assignments						
2021-23		Warden of Rajiv Gandhi Hostel for girls, University of Delhi				
2021-23		Member of BRS committee, University of Delhi				
2021-23		Member of DRC committee, ACBR, University of Delhi				
2018-23		Member of committee of courses, ACBR, University of Delhi				
2019-23		Member of Bill committees of ACBR, University of Delhi				
2018-22		Member of Institute Human Ethics Committee (IHEC), ACBR, University of Delhi				
2021-22		Deputy superintendent of M. Sc Theory examination				
2021-23		Member of Student's grievance committee, ACBR, University of Delhi				
2021-23		Member of Caste based discrimination inquiry committee				
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:	
<p>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). We are also working to identify the host molecules responsible for acute inflammation and particular virulence factors triggering the inflammatory pathway after Uropathogenic <i>E.coli</i> (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.</p> <p>The complexity of the acquisition and spread of Multiple Drug Resistant 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. 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 <i>E. coli</i> worldwide, along with our international collaborators. Working to understand the association between the prevalence of antibiotic resistance and CRISPR repeats in UPEC causing UTIs. Also working for the design/development of target specific antibiofilm compounds in UTI patients. These studies will be helpful to understand the possible mechanism or factor(s) behind the antibiotic resistance, which can be further exploited as a therapeutic means for the treatment of UTI infection.</p>	
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 (1st year):	Medical Microbiology (Theory & Practicals)
MSc (2nd year):	Medical Virology and Mycology (Theory) Human Physiology-II (Theory & Practicals)
PhD Course work:	
Research Guidance	
<i>List against each head (If applicable)</i>	
Supervision/Co-Supervision of awarded Doctoral Thesis: Five	
1.	D Nagarjuna (DBT: 2013-17): Molecular characterization of virulence genes in pathogenic <i>Escherichia coli</i> causing Nosocomial Infections.
2.	Vivek Verma (CSIR: 2013-19): Characterization of inflammasomes and its role in pathogenesis of uropathogenic <i>Escherichia coli</i> causing urinary tract infections.
3.	Nasreen Banu (ICMR: 2012-19): Role of NF-κB, miRNA and HPV and their Cross talk in Cancer and Cancer stem cells during Oral carcinogenesis.
4.	Kiran Yadav (KU Fellowship: Co-supervisor; 2013-17): Formulation, optimization, evaluation and in vitro

anticancer study of noscapine nanoparticles.

5. **Sonal Yadav (CSIR; 2015-21):** Differential expression of Toll-like receptors and Nod-like receptors in response to symptomatic and asymptomatic *Trichomonas vaginalis* infections.
6. **Surbhi Gupta (ICMR-SRF; 2016-21):** CRISPR-cas system's functional role in regulation of antibiotic resistance and virulence in Uropathogenic *E. coli*.

Supervision of Doctoral Thesis, under progress: One

7. **Bhawana Rathi (CSIR-JRF; 2017-22):** Biofilms formation in *E. coli* causing Urinary Tract Infection.
8. **Venus (Non-Net; 2022-):** Characterization of inflammasome inhibitors in Urinary Tract Infections.
9. **Saksham Meena (CSIR-JRF; 2022-):** Characterization of novel inhibitors against NDM in Urinary Tract Infections.
10. **Perna Bansal (Non-Net; 2022-):** Elucidating the role and mechanism of Nod-Like receptors in infectious diseases.

Supervision of post-doc fellow/International PhD students: Two

8. **Parveen Kumar** (Postdoc fellow: SERB startup research grant, 2015-18): Characterization of mechanism of degradation of HIF1 α by leukaemia associated corepressor, MTG16 during hypoxia. For 3 yrs.
9. **Ghassan Tayh** (International PhD Student: Research Training Fellowship for Developing Country Scientists (RTF-DCS, Feb-July 2016): Determination of Antimicrobial Resistance Genotypes of Gram Negative Bacteria Isolated from Hospitals in Gaza Strip, Palestine. For 6 months.

Supervision of awarded M. Sc dissertations: Thirty one (n=31)

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

30. Pooja Kumari, June 18. To study the involvement of TLR9 and NLRP3 against symptomatic and asymptomatic isolates of *Trichomonas vaginalis*.
31. Aarti, June 18. Evaluation of Antibacterial activity of Zinc Oxide Nanoparticles in *Psuedomonas aeruginosa*.
32. Sahil Yadav, June 2019. To study the effect of *Escherichia coli* CFT073 infection in THP-1 macrophages on mitochondria and inflammasomes.
33. Ankush Sharma, June 2019. Effect of alpha hemolysin infection in THP-1 macrophages on mitochondria and inflammasomes.
34. Sunaina Dalal, June 2019. To study the involvement of NLRC4 and AIM2 against symptomatic and asymptomatic isolates of *Trichomonas vaginalis*.
35. Bulbul, June 2020. To study the effect of Gallic acid, Caffeine and Riboflavin on curli mediated Uropathogenic *Escherichia coli* biofilm formation.
36. Ruchi Tiwari, June 2020. Crispr cas9 mediated targeting of papG gene in Uropathogenic *Escherichia coli*.
37. Pratibha, June 2020. Screening the antibacterial activity of ZnO nanoparticle and Platelet rich Plasma on multidrug resistant gram negative bacteria.
38. Shreya Prakash, 2021. CRISPR/Cas System as a Regulator of Bacterial Virulence.
39. Kanika Singh, 2021. How Curli Amyloid are involved in bacterial biofilm formation and strategies to combat curli mediated biofilm formation in UTI.
40. Kuljeet Singh, 2021. Role of fimbriae and strategies to inhibit fimbriae mediated biofilm infection in UTI.

Supervision of awarded B. Tech dissertations: Three

41. Nitya Kaushik, May 2011. Diagnosis of Tuberculosis using different PCR Techniques.
42. Tanya Pandey, May 2014. Characterization of adherent *E. coli* in blood isolates.
43. Sachin Sharma, May 2014. Characterization of *E. coli* in fecal isolates.

Supervision of M.Sc dissertations, under progress: Five

44. Anoop Singh, 2022
45. Sushma, 2022
46. Akshita Singh, 2022
47. Ritika, 2022
48. Shreya Gautam, 2022

Supervision of B.Sc/ M.Sc Summer training (SURP): Twelve students

49. Ankita Sharma, June-July 2012.
50. Ruchi Gupta, June-July 2012.
51. Monisha Uppal, June-July 2013
52. P Yamini, June-July 2013
53. Tanya Pandey, June-July 2013
54. Vasu Goel, June-July 2014
55. Prabhat, June-July 2015
56. Manisha Kumar, June-July 2016
57. Arpita Bhatt, June-July 2017
58. Ashdeep Kaur, June-July 2017
59. Karuna Jain, June-July 2018
60. Sneha Tripathi, June-July 2019

Supervision of Science Academy students (IASc-INSA-NASI)-Summer training: Nine 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
5. Anjali Nishad, June-July 2018
6. NRD Vineela, June-July 2019
7. Anjali Agrawal, June-July 2019
8. Mohit Manoj, June-July 2021
9. Shashank MS, June-July 2021

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. **Yadav Manisha** and Malla N. Editorial: Immune Responses in Sexually Transmitted Infections Caused by Parasites and DNA Viruses: New Insights. **Front. Cell. Infect. Microbiol.** Jan 2022, 12:838799. doi: 10.3389/fcimb.2022.838799.
2. Surbhi Gupta, Parveen Kumar, Bhawna Rathi, Vivek Verma, Rakesh Singh Dhanda, Pooja Devi & **Manisha Yadav**. Targeting of Uropathogenic *Escherichia coli* papG gene Using CRISPR-dot Nanocomplex reduced Virulence of UPEC. **Scientific Reports** 2021 Sep 7;11(1):17801. doi: 10.1038/s41598-021-97224-4.
3. Vivek Verma, Parveen Kumar, Surbhi Gupta, Sonal Yadav, Rakesh S Dhanda, **Manisha Yadav**. NLRP3-mediated dysfunction of mitochondria leads to cell death in CFT073-stimulated macrophages. **Scand J Immunol.** Dec 2021, 94 (6): e13104. doi: 10.1111/sji.13104.
4. Parveen Kumar, Vivek Verma, Dheeraj Mohania, Surbhi Gupta, Avneet K. Babbar, Bhawna Rathi, Rakesh S. Dhanda, **Manisha Yadav**. Leukemia associated RUNX1T1 gene reduced proliferation and invasiveness of glioblastoma cells. **Journal of Cellular Biochemistry**, 2021. DOI: <https://doi.org/10.1002/jcb.30126.2021>.
5. Anna Åkerud, Jakob Axelsson, **Manisha Yadav**, Jonas Erjefält, Gunvor Ekman-Ordeberg, Anders Malmström, Hans Fischer. Heparin fragments induce cervical inflammation by recruiting immune cells through Toll-like receptor 4 in nonpregnant mice. **Mol Hum Reprod.** 2021 Feb 27;27(3): gaab004. doi: 10.1093/molehr/gaab004.
6. Sonal Yadav, Vivek Verma, Rakesh Singh Dhanda, Sumeeta Khurana, **Manisha Yadav**. Latent Upregulation of Nlrp3, Nlrc4 and Aim2 Differentiates between Asymptomatic and Symptomatic *Trichomonas vaginalis* Infection. **Immunol Invest.** 2021 Apr 19;1-22. doi: 10.1080/08820139.2021.1909062.
7. Supriya Shukla, Jaya Telraja, **Manisha Yadav**, Hridayesh Prakash. Editorial: Modulation of Macrophage Signaling Pathways during Bacterial Infections. **Front. Cellular & Infect. Microb.** 2021. doi: 10.3389/fcimb.2021.689759.
8. Tayh, G., Nagarjuna, D., Ben Sallem, R., Verma, V., Ben Yahia, H., Gharsa, H., **Yadav Manisha**, & Ben Slama, K. Identification Of Virulence Factors Among ESBL-Producing *Escherichia Coli* Clinical Isolates From Gaza Strip, Palestine. **Journal of Microbiology, Biotechnology and Food Sciences**, 2021. e2865. <https://doi.org/10.15414/jmbfs.2865>.
9. Vivek Verma, Parveen Kumar, Surbhi Gupta, Sonal Yadav, Rakesh Singh Dhanda, Henrik Thorlacius, **Manisha Yadav**. α -Hemolysin of uropathogenic *E. coli* regulates NLRP3 inflammasome activation and mitochondrial dysfunction in THP-1 macrophages. **Scientific Reports.** 2020 Jul 28;10(1):12653. doi: 10.1038/s41598-020-69501-1.
10. Yadav S, Verma V, Singh Dhanda R, **Yadav M**. Insights into the toll-like receptors in sexually transmitted infections. **Scand J Immunol.** 2020 Aug 6:e12954. doi: 10.1111/sji.12954.
11. Sonal Yadav, Sumeeta Khurana, Rashmi Bagga, Rakesh Singh Dhanda, **Manisha Yadav**. Data showing differential expression of Monocyte chemoattractant protein-1 in response to symptomatic and asymptomatic *T. vaginalis* infection. **Data Brief.** 2020 Apr 28;30:105628. doi: 10.1016/j.dib.2020.105628.
12. Tayh G, Nagarjuna D, Ben Sallem R, Verma V, Chairat S, Boudabous A, **Yadav M**, Ben Slama K. First report of VIM metallo- β -lactamase production in *Escherichia coli* and *Klebsiella pneumoniae* clinical isolates from Gaza Strip, Palestine. **GERMS.** March 2020; 10 (1):25-33. doi: 10.18683/germs.2020.1181.
13. Surbhi Gupta, Neha Jindal, D. Pooja, Manisha Yadav (2019). Carbon Quantum Dots Conjugated CRISPR-cas9-gRNA Antimicrobials Against Antibiotic Resistant Uropathogenic *Escherichia coli*. **Access Microbiology**, DOI :10.1099/acmi.fis2019.po0210.
14. Verma V, Gupta S, Kumar P, Yadav S, Dhanda RS, Gaiind R, Arora R, Frimodt-Møller N, **Yadav M**. Involvement of NLRP3 and NLRC4 Inflammasome in Uropathogenic *E. coli* Mediated Urinary Tract Infections. **Frontiers in Microbiology.** Sep 2019. doi: 10.3389/fmicb.2019.02020.
15. Vivek Verma, Surbhi Gupta, Parveen Kumar, Ankita Rawat, Rakesh S Dhanda, **Manisha Yadav**. Efficient production of endotoxin depleted bioactive α -hemolysin of Uropathogenic *Escherichia coli*. **Preparative Biochemistry & Biotechnology**, March 2019. doi.org/10.1080/10826068.2019.1591993.
16. Bano N, **Yadav Manisha**, Mohania D, Das BC. The role of NF- κ B and miRNA in oral cancer and cancer stem cells with or without HPV16 infection. **PLoS ONE** 2018; 13(10): e0205518.
17. Bano N, **Yadav Manisha**, Das BC. Differential Inhibitory Effects of Curcumin Between HPV+ve and HPV-ve Oral Cancer Stem Cells. **Frontiers in Oncology** 2018; 8:412.

18. D. Nagarjuna, Gajanand Mittal, Rakesh S Dhanda, Rajni Gaiind, **Manisha Yadav**. Alarming levels of antimicrobial resistance among sepsis patients admitted to ICU in a tertiary care hospital in India - a case control retrospective study. **Antimicrobial Resistance and Infection Control** **2018**; 7:150.
19. M. Nemat, 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.
20. Verma V, Arora R, Dhanda RS, Gaiind R, **Yadav Manisha**. Data showing levels of interleukin-1 β and nitric oxide in the plasma of uropathogenic *E. coli* infected UTI patients. **Data Brief** **2018** May 18;19:526-529. doi: 10.1016/j.dib.2018.05.058.
21. D. Nagarjuna, R. Gaiind, 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).
22. 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.
23. 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.
24. Jain S, Nagarjuna D, Gaiind 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.
25. Verma V, Nagarjuna D, Mittal G, Kumar P, Dhanda RS, Gaiind R, **Yadav Manisha**. Data showing phenotypic profile of uropathogenic *Escherichia coli* isolates from sepsis patients. **Data Brief.** **2016** Jun; 7:
26. 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.
27. Kumar T, **Yadav Manisha**, Singh LR. Role of osmolytes in regulating immune system. **Curr. Pharm. Des.** **2016** Mar 7.
28. D. Nagarjuna, R.S. Dhanda, G. Mittal, P.K. Verma, R. Gaiind, **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.
29. D. Nagarjuna, R.S. Dhanda, R. Gaiind, **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.
30. 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).
31. 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.
32. Nancy Malla, K Goyal, Rakesh Singh Dhanda and **Manisha Yadav**. Immunity in Urogenital protozoa. In **Parasite immunology** Sept **2014**, 36 (9), 400-408.
33. **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.
34. **Manisha Yadav**, Neha Verma and Rakesh Singh Dhanda. Impact of sexually transmitted infections on women health. **Health.** **Aug 2013**; 5(8): 1216-26.
35. 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.
36. 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.
37. 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.
38. 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.
39. **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).
40. 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).
41. 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.
 42. 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.
 43. 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.
 44. **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.
 45. **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.
 46. 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.
 47. **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.
 48. **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.
 49. **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 lecture in the Department seminar series at Department of Biotechnology, Indian Institute of Technology Roorkee, Roorkee on 12th July 2019.
2. Invited speaker in 10th Symposium on Frontiers in Biomedical Sciences (FBR-2015), at University of Delhi, Delhi, India in Oct 2015.
3. 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.
4. Faculty Development Programme on “Advances in Biotechnology: Present Scenario” funded by TEQIP-II-2014. At IFTM University, Moradabad, UP in April 2014.
5. Summer Undergraduate Research Programme (SURP- 2014) at ACBR, Delhi University, Delhi in June 2014.
6. 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 14th Feb 2014.
7. Invited Speaker in International conference at BIT Congress- Europe on Major Diseases Clinical Summit - 2013 at Warsaw, Poland from 5-7th November 2013.
8. 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 6th -7th Dec 2013

2. Organization of a Conference:

1. In the Organizing committee of 32nd 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, Sumeeta Khurana, Rashmi Bagga, **Manisha Yadav**. To study the involvement of TLR5 and 9 against symptomatic and asymptomatic isolates of *Trichomonas vaginalis*. World congress 2018 at PGIMER, Chandigarh.
2. 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.
3. 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.
4. Manisha Yadav on "Mycobacterium bovis BCG infection modulates GRK2/3 dependent cytokine secretion" at 2nd International Science Symposium on HIV & Infectious Diseases (HIV SCIENCE 2014), held at Chennai from 30th January - 01st February, 2014.
5. 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.
6. 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 (*corresponding author):

1. Bhawna Rathee and Manisha Yadav*. Inhibitory effects of caffeine on curli-dependent biofilm formation in Uropathogenic E. coli. ECCMID 2022. In April 2022 at Portugal.
2. Surbhi Gupta, Neha Jindal, Pooja D and Manisha Yadav*. Carbon Quantum Dots Conjugated CRISPR-cas9-gRNA Antimicrobials Against Antibiotic Resistant Uropathogenic *Escherichia coli*. FIS 2019, Edinburgh, Scotland from 11-14 November, 2019.
3. Bhawna Rathee and Manisha Yadav*. Relationship of biofilm formation and different virulence genes in uropathogenic *Escherichia coli* isolates from UTI Patients. Microcon 2019, Mumbai, India in Nov 2019.
4. Sonal Yadav, Sumeeta Khurana, Nancy Malla, Rashmi Bagga, Manisha Yadav*. In vivo expression of toll Like Receptor 5 against *T. vaginalis* infection. ASM- June 2019, San Francisco, USA.
5. Sonal Yadav, Nancy Malla, Sumeeta Khurana and Manisha Yadav*. To study the involvement of TLR5, 9 and NLRP3 against symptomatic and asymptomatic isolates of *Trichomonas vaginalis*. Tropacon 2018.
6. Sonal Yadav, Nancy Malla, Rashmi Bagga, Rakesh Singh Dhanda and Manisha Yadav*. Toll-Like receptor 5 and its signaling mechanisms of *T. vaginalis* isolates from symptomatic and asymptomatic infected women. FBR 2018.
7. 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.
8. Vivek Verma, Rakesh Singh Dhanda, Manisha Yadav*. Study of the involvement of NLPP-3 inflammasomes in mature Interlukin-1 β release during urinary tract infection. MICROCON-2015 held at Pondicherry Nov 2015.
9. 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.
10. 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.
11. Vivek Verma, RS Dhanda, Manisha Yadav*. A role of nlrp-3 inflammasomes in release of interleukin-1 β in UTI infections. Presented at 10th Annual Symposium on FBR-2015 held at University of Delhi, Delhi from Oct 29-31, 2015.
12. 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.
13. Kiran Yadav, Deepak Yadav, Manisha Yadav, Sunil Kumar. Influence of formulation and processing

- parameters on fabrication of Noscapine 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.
14. 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.
 15. 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.
 16. Vivek Verma, Nancy Malla, Rashmi Bagga, Rakesh Singh Dhanda, **Manisha Yadav***. Estimation of pro-inflammatory cytokine IL-1 β 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.
 17. 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.
 18. Shimpi Chopra, D. Nagarjuna, Sarika Jain, Rajni Gaind, 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.
 19. D. Nagarjuna, Rakesh Singh Dhanda and **Manisha Yadav***. Genotyping of clinical isolates of *E. coli* among sepsis patients in Indian population presented at 2nd International Science Symposium on HIV & Infectious Diseases (HIV SCIENCE 2014), held at Chennai from 30th January -01st February, 2014.
 20. D.Nagarjuna, Vivek Verma, Sonu Kalshan, Rajni Gaind, 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.**
 21. **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 37th Annual Conference of the Indian Society of Human Genetics**, March 2012, at Panjab University, Chandigarh, India.
 22. **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'. 14th **International Congress of Immunology**, August 2010, at Kobe, Japan.
 23. 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". 14th **International Congress of Immunology**, August 2010, at Kobe, Japan.
 24. **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". 60th **Annual Conference of the Canadian Society of Microbiologists**: June 14th-17th, 2010, at McMaster University, Hamilton, Ontario, Canada.
 25. 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". **49th Interscience Congress on Antimicrobial Agents and Chemotherapy**: Sept 12-15, 2009 at San Francisco, USA.
 26. **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.
 27. **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". **11th International Congress of Parasitology**: 4-11th Aug 2006 at Glasgow, Scotland UK.
 28. Kaur S., Yadav Manisha and Nagill R. "Increased infectivity of axenic amastigote like forms of *Leishmania donovani*". **91st session of Indian Science Congress Association**: Jan 3-7, 2004 at Chandigarh, India.
 29. **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 29th European Society of Clinical Microbiology & Infectious Diseases (ECCMID) held in Amsterdam, Netherland in April 2019.
2. Attended 25th European Society of Clinical Microbiology & Infectious Diseases (ECCMID) held in Copenhagen, Denmark from 25-28 April 2015.
3. Attended 2 weeks international workshop on Laboratory Animals Science held at IGIB, Delhi, Nov 2013.
4. Attended National Conference on Recent Trends in Protein Structural Biology-2013 held at Jamia Millia Islamia, Delhi, December 2013.
5. Attended International Interdisciplinary Science Conference-2012 on Protein Folding and Diseases held at Jamia Millia Islamia, Delhi, December 2012.
6. Attended PGI Golden Jubilee workshop on "Molecular Diagnosis for Parasitic Diseases: Conventional and Real Time PCR techniques " at PGIMER, Chandigarh, Sept 2012.
7. Attended Springer Author Workshop at Delhi University, Delhi, August 2012.
8. Attended national conference on "Recent advances in Pure and Applied Chemistry" held at ACBR, Delhi University, Delhi, Dec 2010.
9. Attended symposium on "Parasitic infections then and now: with Special Reference to India" held in the Department of Parasitology, PGIMER, Chandigarh, Sept 2010.
10. Attended workshop on Scientific Communication and Grantsmanship held at Stem Cell Centre, Lund University, Sweden, Sept 2009.
11. Organizers of 2nd Symposium on HAMLET and Tumor-killing Proteins held at Deptt. of MIG, Lund University, Sweden, May 2009.
12. Participated in UGC sponsored conference on "Trends in Parasitology" held at Panjab University, Chandigarh, Feb 2004.
13. Participated in north-west chapter meeting of Indian Association of Medical Microbiologist (IAMM) held at central research institute, Kasauli, Nov 2003.
14. Participated in national symposium on "Biotechnology: Expanding Horizons", held at INSA Auditorium, Bahadur Shah Jafar Marg, N. Delhi, Oct 2003.
15. Organised CME cum workshop on "an update on diagnostic techniques for parasitic diseases" held in the Department of Parasitology, PGIMER, Chandigarh, Oct 2003.
16. Participated in scientific symposium on "Proteomics": the emerging trends held at PGIMER, Chandigarh, Nov 2002.
17. Attended north-west chapter meeting of Indian Association of Medical Microbiologist (IAMM) held at PGIMER, Chandigarh, Oct 2002.

In Indexed/ Peer Reviewed Journals**More than 50 Publication in Journals****Articles: Not Applicable****Conference Presentations****More than 50 Conference Presentations****Public Service / University Service / Consulting Activity****Not Applicable****Professional Societies Memberships**

- Member of European Society of Clinical Microbiology & Infectious Diseases (ESCMID, 2015-2020)
- Life Member, Indian Association of Medical Microbiology, India
- Member, Canadian Society of Microbiologists, Canada
- Member, Swedish Association of Scientists, Sweden
- Member, Swedish Association of University Teachers, Sweden
- Member, Indian Science Congress Association, India

Projects (Major Grants / Collaborations)

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 <i>E. coli</i> causing UTI.	DST-VR (Indo-Swedish project)
2	Major	2013-16	Toll-like receptors and signalling mechanisms of <i>T. vaginalis</i> 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	Minor	2022-22	To study the synergetic effect of antibiotics on caffeine treated Uropathogenic <i>Escherichia Coli</i> in UTI patients.	IoE/FRP, Delhi University
5	Minor	2020-21	To study the effect of caffeine on strong biofilm forming antibiotic resistant UPEC isolates from UTI Patients.	IoE/FRP, Delhi University
6	Minor	2015-16	Characterization of different <i>E. coli</i> Pathotypes based on Adherence Pattern in Hela Cells.	R & D grant, Delhi University
7	Minor	2014-15	Phylogenetic analysis among clinical isolates of <i>E. coli</i> from Sepsis patients admitted to ICU.	R & D grant, Delhi University
8	Minor	2013-14	Role of NLRP3 inflammasome in response to Uropathogenic <i>Escherichia coli</i> infection	R & D grant, Delhi University
9	Minor	2012-13	Prevalence of potential virulence factors among clinical isolates of UTI prone patients in India	R & D grant, Delhi University
10	Minor	2011-12	Pathogenesis and Toll-like receptor mediated molecular mechanisms of Trichomoniasis	R & D grant, Delhi University
11	Major	2010-11	Immunopathogenesis of Trichomoniasis	Delhi University, India
12	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)