

Curriculum vitae

Dr. Vandana Tiwari

1. PERSONAL DETAILS

- **Email:** drvandana2166@yahoo.com
- **Postal address for correspondence :** **B1/176, Viram Khand Gomtinagar
Lucknow-226010
Phone No.: 91-522-2397993**
- **Date of Birth :** **08-07-1966**

2. ACADEMIC DETAILS

S.N.	Degree/ subject/ area	Period of study	University/ Institute	Subject	Division
		From -To			
1.	High School	1978-1980	U.P. Board	English, Hindi, Maths, Science, Biology	First
2.	Intermediate	1980-1982	U.P. Board	English, Physics, Chemistry, Biology, Hindi	First
3.	B. Sc.	1982-1984	Gorakhpur University	Chemistry, Zoology, Botany	First
4.	M.Sc.	1984-1986	Allahabad University	Biochemistry	First
5.	Ph.D.	1998	B.H.U. Varanasi	Biochemistry	-

3. AWARDS/ SCHOLARSHIPS

Awarded **Ekikrit Scholarship** at State level after 8th Standard
Awarded **National Scholarship** after 10th Standard
Junior Project Fellowship by ICMR, New Delhi
Senior Research Fellowship by ICMR, New Delhi
Research Associateship by ICMR, New Delhi
Project as Principal Investigator from **DST(WOS-A)** New Delhi 2008
Exempted from appearing to NET/ Awarded PhD in 1998

Publications: 29 (25 research papers published; 2 conference proceedings published; 2 research papers communicated)

Membership:

- **Life Member** of "Indian Cancer Society", UP branch. January 2010 onwards.
- **Associate Member** of "Indian Association of Pathologist and Microbiologists".

Book/Monograph:

- **PCR TECHNIQUES: BENCH MONOGRAPH: 2009**
- **IMMUNOCYTOCHEMISTRY PROTOCOLS: 2011**

4. WORK EXPERIENCE

S.N.	Type of Fellowships/ Employment	Name of Institution	Period	Nature of duties
1.	Assistant Professor	RMLIMS, Lucknow	Sept. 2012-till date	Teaching, Research
2.	Associate Professor	BBD College of Dental Sciences	May2012-Aug 2012I	Research & Teaching
3.	Women Scientist	CSMMU. & RMLIMS Lucknow	May 09- Apr 2012	Research & Teaching
4.	Clinical Biochemist	K.G.M.U. Lucknow	Jan 04-April 2009	Chemical Pathology
5.	Research Officer	K.G.M.C. Lucknow	April 03-Jan 04	Teaching & Research
6.	Honorary Research Fellow	K.G.M.C. Lucknow	Nov 02-March 03	Teaching & Research
7.	Research Associate(ICMR)	K.G.M.C. Lucknow	Oct 99-Oct 02	Teaching & Research
8.	Senior Research Fellow(ICMR)	K.G.M.C. Lucknow	May 99- Oct 99	Teaching & Research
9.	Research Fellow	K.G.M.C. Lucknow	Dec. 90- April 99	Teaching & Research

5. TEACHING EXPERIENCE

Undergraduate Teaching (MBBS): Three years (MLN Medical College Allahabad), Subject: Biochemistry. {From March 1988- December 1990}

Postgraduate Teaching (MBBS): Thesis* guided as co-supervisor [Seven (MDS), Three (MD) Pathology], PG Tutorials {From February 1996-2010}

* Details

M.D.S. (Dental Sciences):

- A comparative evaluation of different mouth washes on salivary bacterial counts. **Dr. Vinay Kumar Srivastava** (Pedodontics), 2001.
- Decontamination of Gutta Percha cones with different chemical agents-A comparative study. **Dr. Vivek Rana** (Pedodontics), 2002.
- Smoking and periodontal diseases. **Dr. Nimit Kumar Garg** (Periodontics), 2002.
- Role of ornidazole in periodontics. **Dr. Bharat Bhushan** (Periodontics), 2002.
- Comparative evaluation of efficacy of different root canal irrigants (A microbiological study). **Dr. Monika Rathore** (Pedodontics), 2002.
- A comparative evaluation of antimicrobial effectiveness of different preparations of calcium hydroxide-An in vitro study. **Dr. Anshul** (Pedodontics), 2003.
- To evaluate the effect of local therapy on the levels of free radicals and antioxidants in saliva of smokers and diabetics with chronic periodontal disease. **Dr. Harmeeta** (Periodontics), 2009.

M.D. Pathology:

- Multimodal diagnostic approach to brain abscess. **Dr. Ritu Verma**, 2002.
- Immunocytochemical and molecular detection of Mycobacterium tuberculosis complex in cytological and histological samples. **Dr. Megha Goel**, 2003.
- Immunohistochemical characterization of lymphatic response in oral squamous cell carcinoma, **Dr. Nidhi Anand**, 2010.

M.Phil.:

Role of Tumor Regulatory Cell in Oral Carcinoma, **Dr. Shobhana Vaish**, 2012

6. PhD RESEARCH ACTIVITIES

Ph. D. thesis topic: **“Characterization of *Leishmania donovani* antigen with special reference to their diagnostic value”**. The most sensitive antigen of *Leishmania donovani* was characterized for diagnosis of *Kala-azar* and was compared with various serological techniques like ELISA for rapid diagnosis of *Kala-azar*.

Work Experience:

Biochemistry:

- Estimation of various antioxidant (enzymatic/ non-enzymatic) levels in blood and tissue i.e. catalase, superoxide dismutase (SOD), glutathione peroxidase (GPx), glutathione (GSH), total thiol (-SH), vitamin-E, vitamin-C.
- Estimation of free radical mediated destruction in terms of lipid peroxidation in human specimens (blood and tissue).
- Estimation of nitric oxide levels in clinical samples.
- Estimation of various biochemical parameters in the clinical samples using ready to use kits on an automated auto-analyser.
- ELISA test as a diagnostic tool in estimation of various tumor markers and hormone assays using ELISA.
- ELISA test as a diagnostic tool in estimation of cytokines ie TNF-alpha, IFN-gamma and Interleukin in serum samples by ELISA.
- Extraction and purification of active principles from plant origin and testing their antioxidant property in animal system.
- ELISA test as a diagnostic tool in infectious diseases ie. tuberculosis, typhoid, malaria, hepatitis, HIV etc.

Molecular Biology:

- Identification of *Mycobacterium tuberculosis* infection with help of polymerase chain reaction (PCR) with special reference to extra- pulmonary tuberculosis.
- Antigen characterization for *Leishmania* and *Amoeba* for its diagnostic application using western blot assay.
- Diagnosis of infectious diseases ie. HIV, Hepatitis, HPV infections etc using PCR test.

Microbiology:

- Isolation, identification (biochemical, serotyping, and biotyping) and maintenance of pathogenic microbial cultures with special reference to *Leishmania donovani*, *Mycobacterium* species, *Haemophilus influenzae*, *Streptococcus pneumoniae*, *Streptococcus pyogenes*, *Staphylococcus aureus*, *Escherichia coli* and *Klebsiella* species isolated from various clinical samples.
- Characterization of bacterial strains on the basis of their drug sensitivity pattern.
- Isolation and identification of mycobacterial species from various clinical samples e.g. sputum, pus, CSF, FNAC, pleural fluid etc.
- DNA isolation from plants, animals and microbes. PCR, MTT assay, Receptor binding assay through HTS (high throughput system) & manually. Transformation.
- RNA extraction from tissue samples and its use in RT-PCR for detection of T-cell subsets.

Molecular Pathology:

- Molecular and cellular Genomics & few Proteomics aspects of the oral cancer diagnostics through Real Time-PCR, ELISA, Flow cytometry, Immunohistochemistry.

Nanotechnology:

- Recently established the application of a novel Nanomachanical Imprints for detection of Oral Cancer in collaboration with Nano Phosphor Application Centre with Professor Avinash Chandra Pandey, and his group at Allahabad.

7. RESEARCH HIGHLIGHTS

Research Assistant from ICMR New Delhi (Three Years):

- ✚ **Development of Immuno-peroxidase Assay using whole parasite as antigen**
Used whole parasite as an antigen in the form of fixed smears on glass slides for rapid serodiagnosis of visceral leishmaniasis ; work is published in *Indian Journal of Experimental Biology* in the year **1994**
- ✚ **Development and standardization of a potentially simple and economic “end of pipe” approach to diagnose infectious disease at Field level**
 - The most sensitive antigen of *Leishmania donovani* was characterized for diagnosis of Kala-azar and was compared with various serological techniques like ELISA for rapid diagnosis ; work is published in *Biochemistry and Molecular Biology International* in the year **1995** ; *Indian Journal of Experimental Biology* in the year **1994** & **1996**

Senior Research Fellowship from ICMR New Delhi (Six months):

Project Title: “ In vitro excystation of *Giardia lamblia* from the field strains”

Research Associate from ICMR New Delhi (Three Years):

Project Title: “Evaluation of newer laboratory techniques for early diagnosis of extra pulmonary tuberculosis”.

- ✚ **Development and standardisation of DNA extraction protocol for *Mycobacterium tuberculosis***
Compared various protocols of Mycobacterial DNA extraction published with our own protocol which is most sensitive (Qualitatively as well as quantitatively) than others: work is published in *Molecular Biology Today* in the year **2002**
- ✚ **Research on Development of novel technique for early diagnosis of extra pulmonary tuberculosis**
Standardised & started Polymerase Chain Reaction (PCR) technique in our research laboratory for the first time for early diagnosis of extra pulmonary tuberculosis: Research proposal was financially supported by *Indian Council of Medical Research* in the year **1999**
- ✚ Application of enzyme amplified detection of mycobacterial DNA in diagnosis of pulmonary as well as extra pulmonary tuberculosis in India ; work is published in *Indian Journal of Medical Research* in the year **2003**
- ✚ Development of a new antigen detection Dot- ELISA for tubercular lymphadenitis in fine needle aspirates; published in *Journal of Microbiological Methods* in **2002**
- ✚ PCR technique used for detection of mycobacterial DNA in archival fine needle aspiration smear scraping samples from suspected cases of tuberculous lymphadenitis; work is published in *Acta Cytologica* in the year **2006**
- ✚ **Research on the improvement on Protective effects of plant extracts as an adjuvant therapy for the control of infectious diseases**

Studied the protective effects of green tea extracts against the erythrocytic oxidative stress injury during Mycobacterium tuberculosis infection in mice." ***Molecular and Cellular Biochemistry*** in the year **2002**

WOS-A Fellowship from DST New Delhi (Three Years):

Project Title: "Tumor Infiltrating Lymphocytes (TIL) subset analysis, serum IL-4, IFN- γ , & TNF- α analysis for immuno-reactivity and Molecular/Cellular analysis of γ δ T-cells: A correlative study in oral carcinoma "

- **Vandana Tiwari**, Nuzhat Husain, A. N. Srivastava, Sanjeev Misra & Sandeep Kumar. . "Augmentation of TIL-CD3 in oral cancer: Variation in relation to stage and grade of disease". (*Paper communicated in Bio-Science Trends*)
- Attended and presented a poster entitled "**PROGNOSTIC SIGNIFICANCE OF TUMOUR INFILTRATING T-CELL SUBSETS IN ORAL SQUAMOUS CELL CARCINOMA**" in "59th Annual Conference of Indian Association of Pathologist and Microbiologists" in Dec. 2010 at Hyderabad.
- Abstract accepted in **World Cancer Congress, 2012 for e-poster Track 1 - Prevention and early detection (including tobacco control) Advances in cancer aetiology** "**CD3- TIL variations in oral cancer in relation to stage & grade of the disease**" Vandana Tiwari, N. Husain, A. N. Srivastava, S. Misra, S. Kumar
- Abstract accepted in **IAP 2012 Congress, at Cape Town, South Africa** for poster presentation in September 2012 "**Differential infiltration of CD8 + and CD4+ cells in oral cancer and its association with clinical outcome: An immunohistochemical study**" Vandana Tiwari, Nuzhat Husain, A.N. Srivastava, Sanjeev Misra, Sandeep Kumar

Final project report is under preparation, data analysis is being done.

8. TECHNICAL SKILLS

- Protein estimation
- ELISA (Enzyme Linked Immuno-sorbent Assay)
- Western-blot
- SDS-PAGE (Sodium Dodecyl Sulphate Poly Acrylamide Gel Electrophoresis)
- DNA Electrophoresis
- Nucleic acid (DNA & RNA) extraction by in-house and kit method
- PCR (Polymerase chain Reaction)
- RFLP (Restricted fragment Length Polymorphism)
- AFLP (Amplified Fragment Length polymorphism)
- PCR-SSCP (Single stranded conformational polymorphism)
- Real Time PCR
- Spectro-photometry
- UV-Visible Spectrophotometer (with microprocessor)
- IFT (Immuno Fluorescence Test)
- Immunoperoxidase assays
- Flame Photometer
- Fluorescence Spectrophotometry
- Microscopy
- Scanning Electron microscopy of tissue samples
- Frozen Sections of surgically removed tissues by Cryostat for diagnosis.
- Paraffin embedded tissue sections on manual and semi motorized microtome for histopathology.
- Immuno-histochemistry by Auto-immunostainer and manual methods for diagnosis of various tumors.
- Flowcytometry
- Chemiluminiscence

Contributions in past 23 years:

- Standardized **Polymerase Chain Reaction (PCR)** for diagnosis of infectious diseases during my post doctoral fellowship from ICMR first time in the CSMMU Lucknow.
- Developed a new antigen detection Dot- ELISA for tubercular lymphadenitis.
- Established **Routine chemical pathology lab** in Trauma Centre, CSMMU Lucknow at time of inauguration and worked there for more than five years alone (one year without salary) for the benefit of poor patients.
- DST Women Scientist fellowship SR/WOS-A/LS-76/2009 as PI (R.18,48,000) for three years

Computer proficiency :

- MS-Office
- Operating System: Window's 98, Window's XP Professional, Windows 2000.
- Adobe, Acrobat reader, operations
- Statistical Software(s), SPSS 11.5, MSTAT, SySTAT etc.

9. PUBLICATIONS

1. A. Jain and **Vandana Tiwari**.
"Plasmid patterns of Shigella dysenteriae Type I and its correlation to antibiotic sensitivity pattern." **Microbial. Biotechnology**, 8(1): 1-6,1993.
2. A. Jain, **Vandana Tiwari** and M. Agarwal.
"Role of human polymorphonuclear leucocytes in killing of Leishmania donovani promastigotes". **Journal of Parasitology**. 1993.
3. M. Banerjee, **Vandana Tiwari**, M. Agarwal and A. Jain.
"A study of cases of Visceral leishmaniasis." **Indian Journal of Bio-Research Medical Volume**. 25:1994.
4. A. Jain, M. Agarwal and **Vandana Tiwari**.
"An indirect immunoperoxidase assay for rapid sero diagnosis of Visceral leishmaniasis." **Indian Journal of Experimental Biology**, 32:822-825, 1994.
Impact factor: 7.2
5. A. Jain, M. Agarwal and **Vandana Tiwari**.
"In vitro microbiological study of two new antiseptic agents." **The Antiseptics**, 92; 340-341, 1995.
6. **Vandana Tiwari**, A. Jain, M. Agarwal, B. Mittal and H. P. Pandey.
"Evaluation of antibody responses in Indian kala azar by immunoblot". **Biochemistry and Molecular Biology International**, 1995 Nov; 37(5):959-64.
Impact factor: 0.762
7. A. Jain, M. Agarwal and **Vandana Tiwari**.
"In vitro microbiological study of two new antiseptic agents". **The Antiseptic**, 93: 165-166, 1996.
8. M. Agarwal, **Vandana Tiwari** and A. Jain.
"Seroreactivity of promastigote and amastigote forms of Leishmania donovani in immunoperoxidase assay". **Indian Journal of Microbiology**, 36: 115-116, 1996.
Impact Factor: 7.4
9. M. Agarwal, A. Jain and **Vandana Tiwari**
"Comparative evaluation of serological tests for diagnosis of Visceral leishmaniasis"
Indian Journal of Experimental Biology, 34: 734-738, 1996.
Impact factor: 7.2
10. A. Jain , **Vandana Tiwari** and M. Agarwal
"Effect of Leishmania donovani antigens on superoxide anion generation by mice polymorphs, in vitro". **Indian Journal of Medical Research**, 104: 250-253, 1996.
Impact Factor: 7.6
11. A. Jain and **Vandana Tiwari**
"Evaluation of two ELISA for kala-azar diagnosis." **Indian Journal of Medical Microbiology**, 15(3): 1-3, 1997.
Impact Factor: 7.5
12. A. Jain, M. Agarwal and **Vandana Tiwari**
"Comparative microbiological profile of antiseptic against gram negative bacilli tested in vitro". **The Antiseptic**, 94 (5): 146-147, 1997.
13. A. Jain, M. Agarwal and **Vandana Tiwari**.
"Role of ethylene diamine tetra acetic acid as a synergist with a quaternary ammonium antiseptic agent". **The Antiseptic**, 94(6): 184-186, 1997.
14. A. Jain, M. Berthawal, **Vandana Tiwari** and S.C. Maitra
"Immune complex mediated lesions in experimental kala-azar: An ultrastructural study". **Indian Journal of Pathology and Microbiology**, 43(1): 13-16, 2000.
Impact factor: 0.676
15. A. Jain, **Vandana Tiwari**, R.S. Guleria, R.K. Verma.
"Qualitative evaluation of mycobacterial DNA extraction protocols for polymerase chain reaction." **Molecular Biology Today**. 2002; 3: 43-47 .
Impact factor: ISSN: 1468-5698
16. Guleria R.S., Jain A , **Vandana Tiwari** and M.K. Misra.
"Protective effects of green tea extracts against the erythrocytic oxidative stress injury during Mycobacterium tuberculosis infection in mice." **Molecular and Cellular Biochemistry**. 2002; 236(1-2):173-181.
Impact Factor: 7.7
17. A. Jain, R.K. Verma, **Vandana Tiwari** and M. M. Goel.

"Development of a new antigen detection Dot- Elisa for diagnosis of tubercular lymphadenitis in fine needle aspirates." *J. Microbiological Methods*. 2002;53:107-112.

Impact Factor: 7.7

18. **Vandana Tiwari**, A. Jain and R. K. Verma.

"Application of enzyme amplified detection of mycobacterial DNA in diagnosis of pulmonary and extra pulmonary tuberculosis, in India." *Indian Journal of Medical Research*, 2003; 118:224-228.

Impact factor: 7.6

19. A. Jain, R. K. Verma, **Vandana Tiwari** and M. M. Goel

"Dot antigen vs PCR in fine needle aspirates of tubercular lymphadenitis- a developing country's prospective." *Acta Cytologica*. 2005; 49:17-21.

Impact factor: 7.1

20. M Singh, **Vandana Tiwari**, A Jain and S Ghoshal

" Protective activity of picroliv on hepatic amoebiasis associated with carbon tetrachloride toxicity." *Indian J Med Res*, 2005; 121(5): 676-82.

Impact factor: 7.6

21. MM Goel, Budhwar P, M Goel, **Vandana Tiwari** and A Jain

" Nucleic acid amplification of Mycobacterium tuberculosis complex DNA from archival fine needle aspiration smear scrapings vs. fresh fine needle aspirates of tuberculosis lymphadenitis." *Acta Cytologica*, 2006; 50(4):393-7

Impact factor: 7.1

22. Garg N, Singh R, Dixit J, Jain A, **Tiwari Vandana**

" Levels of lipid peroxides and antioxidants in smokers and nonsmokers". *Journal of Periodontal Research*, 2006; 41(5): 405-10

Impact Factor: 1.686

23. A. Jain, Vivek Kumar Shukla, **Vandana Tiwari** and Rashmi Kumar

"Antibiotic resistant pattern of Group A beta-hemolytic streptococci isolated from North Indian children." *Indian J Med Science*, 2008; 62(10):392-6.

Impact Factor: 0.867

24. Cherry Bansal, **Vandana Tiwari**, U.S. Singh, A. N. Srivastava JS Mishra. "Cell Cannibalism: A cytological study in effusion samples". *Journal of Cytology*: 2011; Volume 28 (2) 57-60.

Impact Factor: 0.311

25. Cherry Bansal, U S Singh, Sanjeev Misra, Kiran Lata Sharma, **Vandana Tiwari**, A N Srivastava.

"Comparative evaluation of the modified Scarff-Bloom-Richardson grading system on breast carcinoma aspirates and histopathology". *CytoJournal*: 2012; 9:4.

Impact Factor: 1.647

26. Ranu K Dutta, **Vandana Tiwari** and Avinash C Pandey.

"Carbon nanotubes induce asbestos like toxicity: Threat of lung cancer, asbestosis and malignant mesothelioma". *J of Bionanoscience*, Article in press, (2012).

27. **Vandana Tiwari**, Prashant Sharma, Nuzhat Husian, Avinash C. Pandey.

"Applicability of Nanomechanical Imprints in Oral Cancer Detection: Differentiation from Normal Tissues." Article is communicated in Science.

(Impact factor according to NAAS Rating of Scientific Research Journals, effective from January 2012)

PEER REVIEWED CONFERENCE PROCEEDINGS

28. Madhu Mati Goel, Puja Budhwar, Megha Goel, **Vandana Tiwari** and Amita Jain.

"Nucleic Acid Amplification of Mycobacterium tuberculosis Complex DNA from Archival Fine Needle Aspiration Smear Scrapings vs. Fresh Fine Needle Aspirates of Tuberculous Lymphadenitis" *Acta Cytologica*: 2010, Volume 54; 3(S) 456.

29. **Vandana Tiwari**, Shailendra Kumar, Shruti Srivastava, & A N Srivastava. " Telomerase h-TERT expression in oral cancer smears". *Acta Cytologica*: 2010, Volume 54; 3(S) 456

10. OTHER SCIENTIFIC ACTIVITIES

TRAINING PROGRAMMES

- Attended "User Workshop on Radiation Biology" at Nuclear Science Centre, New Delhi, 2002
- Attended "Hands on training Programme on anti-mycobacterial drug susceptibility testing" ; KGMC ICE and Microbiology Department, KG Medical University, Lucknow; 19-24th July 2004.

- Attended "ICMR-FERCAP Human Subject Protection Course" Indian Council of Medical research and SGPGIMS Lucknow, 6-8th August 2010.
- Training on "Image Analysis and Morphometry in Pathology" held at All India Institute of Medical Sciences, New Delhi on 21-22nd May 2011
- Attended "Leukemia Course in Flow Cytometry" BD Biosciences from 5th to 8th September, 2011

CONFERENCES/WORKSHOPS/SEMINAR PRESENTATIONS

- **Vandana Tiwari** and M. Suhail. "Studies on in vitro glutathione oxidation rate on red cells of normal and diabetic human blood" The society of Biological Chemists (INDIA) 1989.
- A.Jain, M. Agarwal and **Vandana Tiwari**. "Evaluation of indirect immunoperoxide assays of rapid sero diagnosis of kala- azar." XIX Annual Conference of Indian Immunology Society, Bangalore, Jan 8-10, 1993.
- M. Agarwal, A. Jain and **Vandana Tiwari**. "Comparative evaluation of serological tests for diagnosis of Visceral Leishmaniasis". XIX Annual Conference of Indian Immunology Society, Chandigarh, Sept 14-16, 1994.
- **Vandana Tiwari**, A. Jain, M. Agarwal, B. Mittal and H.P. Pandey. "Immunoblotting as a valuable tool for serodiagnosis of visceral leishmaniasis in India". XIX Annual Conference of Indian Immunology Society, Chandigarh, Sept. 14-16, 1994.
- Jain, M. Agarwal and **Vandana Tiwari**. "Effect of Leishmania donovani on PMNLS function". 43rd National Conference, Indian Association of Pathologists and Microbiologists Lucknow, Nov. 22-27, 1994.
- **Vandana Tiwari**, A. Jain, M. Agarwal, B. Mittal and H. P. Pandey. "Immunoblotting in serodiagnosis of visceral leishmaniasis". 43rd National Conference, Indian Association of Pathologist and Microbiologists, LUCKNOW Nov. 22-27, 1994.
- A.Jain, **Vandana Tiwari** and M. Agarwal. "Effect of Leishmania donovani and its antigens on superoxide anion generation by mice polymorphs in vitro". 44th National Conference, Indian Association of Pathologists and Microbiologists Patna, Nov. 19-24, 1995.
- M. Agarwal, **Vandana Tiwari** and A. Jain. "Indirect immuno-peroxidase Test for serodiagnosis of visceral Leishmaniasis : Sensitivity and specificity of two morphological forms of L. donovani". 44th National Conference, Indian Association of Pathologists and Microbiologists Patna, Nov. 19-24, 1995.
- **Vandana Tiwari**, H. P. Pandey and A. Jain. Immunodiagnosis of kala-azar by dot-ELISA".
- A. Jain, M. Barthawal and **Vandana Tiwari**. "Diagnostic significance of antigen specific circulating immune complexes in kala azar". XXII National Congrress Indian Association of Medical Microbiologists KMC, Manipal, 6-9 November, 1998.
- **Vandana Tiwari**, Jain A. and Guleria R.S. "Role of oxidative stress in pathogenesis of pulmonary tuberculosis. XXVIII Annual Meeting of the Indian Immunology Society and Symposium on Immune Effector Mechanism, 4-6 Oct. 2001, All India Institute of Medical Sciences, New Delhi.
- Guleria R.S., **Vandana Tiwari** and Jain A. "Protective effects of green tea extracts against the erythrocytic oxidative stress injury during Mycobacterium tuberculosis infection in mice." XXVIII Annual Meeting of the Indian Immunology Society and Symposium on Immune Effector Mechanism, 4-6 Oct. 2001, All India Institute of Medical Sciences, New Delhi.
- Archana Misra, **Vandana Tiwari**, Sheela Ghoshal & A. K. Agarwal. "Development of whole parasite antigen fixed Dot-ELISA for sero-diagnosis of amoebiasis" Conference on Amebiasis and the Biology of *Entamoeba histolytica* February 11-14 2002; Jaypee Hotel Agra
- Abhilasha Gupta, R Prasad, SM Natu, **Vandana Tiwari**, Shruti Srivastava, MC Pant & AN Srivastava. "Lipid Per-oxidation(LPO), Nitric Oxide(NO), and Antioxidant Status (GSH) in Lung Cancer Patients Receiving Chemo-radiotherapy". 28th Annual Convention of Indian Association of Cancer Research and International Symposium on Emerging Challenges and Approaches in Cancer Biology; Feb 21-24th 2009.
- AA Sonkar, Tiwari A, R Roy **Vandana Tiwari**, and A.N Srivastava. "Proton Magnetic Resonance Spectroscopy for Evaluation of Malignancy at Resected Margins in Oral Cancer". 6th Asia Pacific IAP Congress, Kochi India; August 20-23rd 2009.
- **Vandana Tiwari**, Nuzhat Husain, Preeti Singh, Shantanu Chowdhury, RAS Kushwaha. " Is nm23-h1 related to metastasis in lung adenocarcinoma? " UP Chapter of Indian Association of Pathologists and Microbiologists, Oct. 24-26th 2009; Era's Lucknow Medical College, Lucknow.
- Manisha Pathak, **Vandana Tiwari**, Pavitra Rastogi, A.C. Pandey and A.N. Srivastava. "Scanning electron microscopic changes in the gingival tissue of pan-masala chewers." UP Chapter of Indian Association of Pathologists and Microbiologists, Oct. 24-26th 2009; Era's Lucknow Medical College, Lucknow.

• Madhu Mati Goel, Puja Budhwar, Megha Goel, **Vandana Tiwari** and Amita Jain. "Nucleic Acid Amplification of Mycobacterium tuberculosis Complex DNA from Archival Fine Needle Aspiration Smear Scrapings vs. Fresh Fine Needle Aspirates of Tuberculous Lymphadenitis" International Cytology congress, Edinburgh, Scotland, UK, 16-20th May 2010.

• **Vandana Tiwari**, Shailendra Kumar, Shruti Srivastava, & A N Srivastava. "Telomerase h-TERT expression in oral cancer smears" International Cytology congress, Edinburgh, Scotland, UK, 16-20th May 2010.

• **Vandana Tiwari**, Shailendra Kumar, Shruti Srivastava, Cherry Bansal, B.C. Das & A N Srivastava. "High risk HPV positivity and h-TERT expression in oral cancer". 26th International Papillomavirus Conference & Clinical and Public Health Workshops, July 3-8, 2010; Palais des Congress de Montreal, Canada.

• **Vandana Tiwari**, Nidhi Anand, Sanjeev Mishra, Nuzhat Husain, A.N. Srivastava. "Prognostic Significance of Tumour Infiltrating T-cell subsets in Oral Squamous Cell Carcinoma". 59th Annual Conference of Indian Association of Pathologists and Microbiologists. 9th-12th Dec 2010 at Hyderabad.

• Huma Khan, Nuzhat Husain, Seema Gupta*, **Vandana Tiwari**, Hari Ram. "Is cyclin-d1 a predictor of chemoradiation response in oral squamous cell carcinoma?" 59th Annual Conference of Indian Association of Pathologists and Microbiologists. 9th-12th Dec 2010 at Hyderabad.

• **Vandana Tiwari**, Prashant Sharma, Nuzhat Husain, A. C. Pandey. "Applicability of Nanomechanical Imprints in Oral Cancer Detection: Differentiation from Normal Tissues." NANO-DDS 2011 Conference going to be held at Brooklin, Newyork USA on 29th Aug -2nd September 2011

• **Vandana Tiwari**, N. Husain, A. N. Srivastava, S. Misra, S. Kumar. "CD3- TIL variations in oral cancer in relation to stage & grade of the disease"

Abstract accepted in **World Cancer Congress 2012, at Montreal Canada** for e- poster

Track 1 - Prevention and early detection (including tobacco control)

Advances in cancer aetiology

• **Vandana Tiwari**, Nuzhat Husain, A.N. Srivastava, Sanjeev Misra, Sandeep Kumar. " Differential infiltration of CD8 + and CD4+ cells in oral cancer and its association with clinical outcome: An immunohistochemical study"

Abstract accepted in **IAP 2012 Congress, at Cape Town, South Africa** for poster presentation in September 2012

CONFERENCES/WORKSHOPS/SEMINARS ORGANIZED/CONTRIBUTED

- "Hands –on Workshop on PCR Techniques" held at Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow India, 2009
- "Hands –on Workshop on Immunocytochemistry" held at Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow India, 30-31st July 2011
- International Symposium on Molecular Pathology: Clinical application & Screening Tool. Held on 14th Feb 2011 at Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow India.
- International Update in Pathology held at Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow India on 31st Jan 2012.

CONFERENCES ATTENDED:

National:

- The society of Biological Chemists (INDIA) 1989
- XIX Annual Conference of Indian Immunology Society, Bangalore, Jan 8-10, 1993
- XX Annual Conference of Indian Immunology Society, Chandigarh, Sept 14-16, 1994
- 43rd National Conference, Indian Association of Pathologists and Microbiologists Lucknow, Nov. 22-27, 1994.
- 44th National Conference, Indian Association of Pathologists and Microbiologists Patna, Nov. 19-24, 1995.
- XXII National Congress Indian Association of Medical Microbiologists KMC, Manipal, 6-9 November, 1998.
- XXVIII Annual Meeting of the Indian Immunology Society and Symposium on Immune Effector Mechanism, All India Institute of Medical Sciences, New Delhi; 4-6 Oct. 2001.
- Conference on amebiasis and the Biology of Entamoeba histolytica, Jaypee Palace Hotel Agra; India : February 11-14, 2002.
- 48th Annual Conference of Indian Society of Hematology & Transfusion Medicine (ISHTM-2007), Pre Congress Workshop on " Hemogram Quality Control" at CSM Medical College, Lucknow; November 14th 2007.

- “27th Annual Convention of Indian association of Cancer research” Gujrat Cancer and Research Institute, 6-9th Feb 2008
- National Workshop on “Torture & Rehabilitation of Torture Victims” organized by Society for Social Research , Art & Culture IMA-CGP, Lucknow Chapter; March 15-16th 2008.
- CME & Workshop in Pathology, Department of Pathology CSM Medical University; Feb 2008.
- 28th Annual Convention of Indian Association of Cancer research and International Symposium on Emerging challenges and approaches in cancer biology, February 21-24, 2009
- “International update on Breast Cancer”, Department of Surgical oncology, CSM Medical University, luck now; 25th Sept 2009.
- 6th Asia Pacific IAP Congress, Kochi India; August 20-23rd 2009.
- UP Chapter of Indian Association of Pathologists and Microbiologists, Oct. 24-26th, 2009; Era's Lucknow Medical College, Lucknow.
- Seminar on “An Introduction to the Role of Bioinformatics in Translational Medicine” Research cell CSM Medical University Lucknow, 22-23rd July 2010.
- 4th International Conference INDIAS: 2010-ALLAHABAD, India, September 19th-21st 2010
- INDIA –JAPAN Seminar: Nanomaterial's for Diagnostics and Therapeutics. Maharshi Dayanand University, Rohtak India; 30th Oct 2010
- 59th Annual Conference of Indian Association of Pathologists and Microbiologists. 9th-12th Dec 2010 at Hyderabad
- International Symposium on Molecular Pathology: Clinical application & Screening Tool. Held on 14th Feb 2011 at Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow India.
- International Update in Pathology held at Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow India on 31st Jan 2012.
- CME on Thyroid Cytology, held at Era's Lucknow Medical College and Hospital, Lucknow on 14th Feb 2012.

International:

- 26th International Papillomavirus Conference & Clinical and Public Health Workshops, 3-8 July, 2010; Palais des Congres de Montreal, Canada.
- NANO-DDS 2011 Conference held at Brooklin, Newyork USA on 29th Aug -2nd September 2011.
- APCON 2012 Conference held at Cape Town, South Africa on 29thSept to 5th Oct 2012.
- 8th Asia Pacific Conference to be held at Busan, South Korea on 5-8th Sept 2013.

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Declaration: I hereby declare that the above information is correct to the best of my knowledge.

Date: 15/05/2013
 Place: LUCKNOW

(VANDANA TIWARI)