

CURRICULUM VITAE

Name : Vandana Rai
Father's Name : Shri Shanker Dutt Rai
Designation : Professor
Department : Biotechnology
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Academic Qualification:

- Ph. D. in Zoology (Cytogenetics) from University of Allahabad, Allahabad in 1990.
Thesis Title: 'Cytogenetics of Sarcophagidae', Supervisor: Prof. Dipika Kaul
- M. Sc. in Zoology from University of Allahabad, Allahabad in 1982.

Present Occupation:

Employer	Designation	Pay Scale/AGP	Date of Joining	Date of Leaving
VBS Purvanchal University, Jaunpur	Lecturer	15600-39100 AGP Rs.6000	03-01-2000	02-01-2004
VBS Purvanchal University, Jaunpur	Senior Lecturer	15,600-39,100 AGP Rs.7,000	03-01-2004	02-01-2009
VBS Purvanchal University, Jaunpur	Reader	15600-39100 AGP Rs.8,000	03-01-2009	02-01-2012
VBS Purvanchal University, Jaunpur	Associate Professor	37,400-67,000 AGP Rs.9,000	03-01-2012	02-01-2015
VBS Purvanchal University, Jaunpur	Professor	37,400-67,000 AGP Rs.10,000	03-01-2015	Cont.

Teaching Experience: Ninteen Years (PG Classes) and Two Years (Ph D course work)

Financial Assistance received from different funding Agencies, Govt of India:

- **UGC** sponsored Major Research Project entitled "Population study of C677T mutation of MTHFR gene as maternal risk factor for some genetic defects" for period of two years, amount Rs.5,28,000/- from 1-4-2007 to 31-3-2009(Completed).
- **DBT** sponsored Major Research Project entitled "Demographic study of maternal A66G allele as risk factor for Down syndrome and other mental disorder" for period of three years, amount Rs. 15,26,000/- from 10-12-2007 to 9-12-2010 (Completed)
- **DST** sponsored Major Research Project entitled "Molecular studies of Fragile X syndrome" for period of three years, amount Rs. 20,22,400/- from 1-4-2009 to 31-3-2012(Completed)

- **CSIR** sponsored Major Research Project entitled “Molecular epidemiological study of genetic modifiers of Thalassemia in eastern UP population” for period of three years, amount Rs. 17,00,000/- from 1-4-2009 to 31-3-2012 (Completed).
- **UGC** sponsored Major Research Project entitled “Molecular study of ACE gene I/D mutation as risk factor for cardiovascular disease in eastern UP population ” for period of three years, amount Rs. 9,25,000/- from 1-10-2012 to 30-9-2015(Completed).
- **ICMR**, New Delhi has awarded SRF to Mr Upendra Yadav on title “MTHFR polymorphism and prostate cancer risk" for a period of three year (2012-2015) under my supervision.
- **ICMR**, New Delhi has awarded SRF to Mr Sushil Kumar Yadav on title "Molecular study of fragile X syndrome in UP population" for a period of three year (2012-2015) under my supervision (Letter No. F. No. 45/6/2012-HUM-BMS.)
- **ICMR**-Financial assistance for organizing Conference on “Biotechnology and Human Welfare: New Vistas” held on 21-22 March, 2015 at VBS Purvanchal University, Jaunpur (No.7/896/14-Seminars (HRD)).
- **DST**-Financial assistance for organizing Conference on “Biotechnology and Human Welfare: New Vistas” held on 21-22 March, 2015 at VBS Purvanchal University, Jaunpur (SERB/F/7184/2014-2015, dated 27-1-2015).

Research Articles Published in Journals (Since 2010): Total Eighty Five (85)

1. Rai V, Kumar P. 2018. Methylenetetrahydrofolate reductase C677T polymorphism and susceptibility to epilepsy. *Neurol Sci*.
2. Kumar P, Rai V. 2018. Methylenetetrahydrofolate reductase C677T polymorphism and risk of esophageal cancer: An updated meta-analysis. *Egypt J Med Hum Genet*; 19(4): 273-284.
3. Rai V, Kumar P. 2018. Methylenetetrahydrofolate reductase A1298C Polymorphism and Autism susceptibility. *Austin J Autism & Related Disabilities*, 4: 1048-1053.
4. Yadav U, Kumar P, Rai V.2018. NQO1 Gene C609T Polymorphism (dbSNP: rs1800566) and Digestive Tract Cancer Risk: A Meta-Analysis. *Nutr Cancer*. 70(4): 557-568.
5. Rai V, Kumar P. 2018. Fetal MTHFR C677T polymorphism confers no susceptibility to Down Syndrome: evidence from meta-analysis. *Egyptian J Med Hum Genet*.19: 53-58.
6. Rai V, Yadav U, Kumar P, Yadav SK, Gupta S. 2017. Methylenetetrahydrofolate Reductase A1298C Genetic Variant and Risk of Schizophrenia: an updated meta-analysis. *Indian J Med Res*. 145(4):437-447.
7. Rai V. 2017. Association of C677T polymorphism (rs1801133) in MTHFR gene with depression. *Cell Mol Biol*. 63(6):60-67.
8. Kumar P, Yadav U, Rai V. 2017. Prevalence of COMT Val158Met polymorphism in Eastern UP population. *Cell Mol Biol*. 63(6):21-24
9. Rai V. 2018. Strong association of C677T polymorphism of methylenetetrahydrofolate reductase gene with nosyndromic cleft lip/palate (nsCL/P). *Ind J Clin Biochem*, 33(1):5-15.
10. Rai V. 2017. Methylenetetrahydrofolate Reductase (MTHFR) C677T Polymorphism and Alzheimer Disease Risk: a Meta-Analysis. *Mol Neurobio*, 54:1173-1186.
11. Rai V, Yadav U, Kumar P. 2017. Impact of Catechol-O-Methyltransferase Val 158Met (rs4680) Polymorphism on Breast Cancer Susceptibility in Asian Population. *Asian Pac J Cancer Prev*. 18 (5), 1243-1250.

12. Rai V, Kumar P. 2017. Methylenetetrahydrofolate reductase C677T polymorphism and risk of male infertility in Asian population. *Ind J Clin Biochem.* 32(3):253-260.
13. Rai V, Yadva U, Kumar P. 2017. Null association of maternal MTHFR A1298C polymorphism with Down syndrome pregnancy: An updated meta-analysis. *Egypt J Med Hum Genet.* 18:9-18.
14. Yadav U, Kumar P, Gupta S, Rai V. 2017. Distribution of MTHFR C677T Gene Polymorphism in Healthy North Indian Population and an Updated Meta-analysis. *Ind J Clin Biochem.* 32(4):399-410.
15. Rai V. 2016. Association of methylenetetrahydrofolate reductase (MTHFR) gene C677T polymorphism with autism: evidence of genetic susceptibility. *Metab Brain Dis.* 31:727-35.
16. Kumar P, Yadav U, Rai V. 2016. Prevalence of glucose-6-phosphate dehydrogenase deficiency in India: an updated meta-analysis. *Egypt J Med Hum Genet,* 17, 295–302.
17. Rai V. 2016. Methylenetetrahydrofolate reductase C677T polymorphism and recurrent pregnancy loss risk in Asian population: a meta-analysis. *Indian J Clin Biochem,* 31: 402-13.
18. Rai V. 2016. Methylenetetrahydrofolate Reductase Gene C677T Polymorphism and Its Association with Ovary Cancer. *J Health Med Informat* 7:3
19. Yadav U, Kumar P, Gupta S, Rai V. 2016. Role of MTHFR C677T gene polymorphism in the susceptibility of schizophrenia: An updated meta-analysis. *Asian J Psychiatry,* 2016; 20: 41–51
20. Rai V. 2016. The MTHFR C677T Polymorphism and Hyperuricemia Risk: a Meta-analysis of 558 Cases and 912 Controls. *Metabolomics* 6: 166.
21. Yadav U, Kumar P, Rai V. 2016. Role of MTHFR A1298C gene polymorphism in the etiology of prostate cancer: A systematic review and updated meta-analysis. *Egyptian J Med Hum Genet,* 17:141-148.
22. Rai V. 2016. Evaluation of the MTHFR C677T Polymorphism as a Risk Factor for Colorectal Cancer in Asian Populations. *Asian Pac J Cancer Prev,* 16 (18): 8093-8100 .
23. Rai V. 2016. Folate pathway gene methylenetetrahydrofolate reductase C677T polymorphism and Alzheimer disease risk in Asian population. *Indian J Clin Biochem,* 31: 245-52.
24. Yadav U, Kumar P, Yadav SK, Mishra OP, Rai V. 2015. Polymorphisms in folate metabolism genes as maternal risk factor for neural tube defects: an updated meta-analysis. *Metab Brain Dis.* 30:7–24.
25. Kumar P, Yadav U, Rai V. 2015. Methylenetetrahydrofolate reductase gene C677T polymorphism and breast cancer risk: Evidence for genetic susceptibility. *MetaGene.* 6 : 72–84.
26. Kumar P, Rai V. 2015. Distribution of ABO blood groups in the malaria patients belonging to OBC population of Uttar Pradesh. *J Exp Zoology,* 18:Supp 1.
27. Rai V, Yadav U, Kumar P, Yadav S K, Mishra OP. 2014. Maternal methylenetetrahydrofolate reductase C677T polymorphism and Down syndrome risk: A meta-analysis from 34 studies. *Plos one,* 9 (9):e108552.
28. Rai V. 2014. Methylenetetrahydrofolate reductase A1298C polymorphism and breast cancer risk: a meta-analysis of 33 studies. *Annals of Medical and Health Sciences Research,* 4 (6): 841-851.
29. Rai V. 2014. Folate Pathway Gene MTHFR C677T Polymorphism and Risk of Lung Cancer in Asian Populations. *Asian Pac J Cancer Prev.* 15 (21), 9259-9264.
30. Rai V. 2014. Genetic polymorphisms of methylenetetrahydrofolate reductase (MTHFR) gene and susceptibility to depression in Asian population: a systematic meta-analysis. *Cell Mol. Biol.* 60 (3): 29-36.
31. Rai V, Yadav U, Kumar P, Yadav SK. 2014. Methylenetetrahydrofolate reductase polymorphism is not risk factor for Down syndrome in North India. *Indian J Hum Genet.* 20(2):142-146.

32. Rai V. 2014. Maternal methylenetetrahydrofolate reductase (MTHFR) gene A1298C polymorphism and risk of nonsyndromic Cleft lip and/or Palate (NSCL/P) in offspring: A meta-analysis. *Asian J Med Sci.* 6 (1):16- 21.
33. Rai V. 2014. Methylenetetrahydrofolate reductase (MTHFR) C677T polymorphism and breast cancer risk in Asian population. *Asian Pac J Cancer Prev*, 15 (14), 5853-5860.
34. Rai V. 2014. Meta-analysis of methylenetetrahydrofolate reductase (MTHFR) A1298C polymorphism and risk of orofacial cleft. *J Med Genet Genom*, 6:19-26.
35. Rai V. 2014. Methylenetetrahydrofolate reductase gene A1298C polymorphism and susceptibility to recurrent pregnancy loss: a meta-analysis. *Cell Mol Biol* 2014; 60 (2): 27-34.
36. Rai V and Kumar P. 2014. Glucose 6-phosphate dehydrogenase deficiency in Muslim community settled in Jaunpur district. *Indian J Hum Genet.* 20(1):96-7
37. Rai V, Yadav U, Kumar P, Yadav SK. 2013. Analysis of methionine synthase reductase polymorphism (A66G) in Indian Muslim Population. *Indian J Hum Genet.* 19(2): 183-187.
38. Yadav SK., Verma A., Kumar P., Rai V. 2013. Molecular screening of FRAXE syndrome in MR cases of Eastern Uttar Pradesh. *Proceeding of International Conference on Health, Environment and Industrial biotechnology (BioSangam-2013)*, McGraw hill Education (India) private limited, pp195-197.
39. Rai V, Yadav U, Kumar P. 2012. Genotype Prevalence and Allele Frequencies of 5, 10-Methylenetetrahydrofolate Reductase (MTHFR) C677T Mutation in two Caste Groups of India. *Cell Mol Biol.* 58: OL1695- 701.
40. Kumar P and Rai, V. 2012. Malaria and Glucose 6- phosphate Dehydrogenase Deficiency. *Res. Environ. Life Sci.* 5(4):211-212.
41. Rai, V. 2012. Effect of environmental factors on frequency of birth defects. *Res. Environ. Life Sci.* 5(4):173-177.
42. Rai, V. and Kumar P. 2012. Epidemiological Study of Glucose-6-phosphate Dehydrogenase Deficiency in Scheduled Caste Population of India. *J Anthropol.* 1-5.
43. Rai V, Yadav U, Kumar P. 2012. MTRR A66G polymorphism in two caste groups of Uttar Pradesh (India). *Indian J Med Sci.* 66(5-6):136-40.
44. Rai V, Yadav U, Kumar P. 2012. Prevalence of methylene tetrahydrofolate reductase C677T polymorphism in eastern Uttar Pradesh. *Indian J Hum Genet.* 18(1): 43-46.
45. Yadav U, Kumar P, Rai V. 2011. Docking study of MTHFR with FAD by Hex. *J. Computational Intelligence in Bioinformatics.* 4(1): 171-178.
46. Rai V. 2011. Autism Genetics: Recent Advances in Candidate Gene Search. *International J Genetic Engineering and Biotechnology*, 2 (1): 47-66.
47. Kumar P, Rai V. 2012. Red Blood Cell Antigen Distribution in Scheduled Caste Population of Uttar Pradesh. *Asian J Microbiol. Biotech. Env. Sci.* 14(2):217-222.
48. Rai V. 2011. Polymorphism in folate metabolic pathway gene as maternal risk factor for Down syndrome. *Int J Biol Med Res.*, 2(4): 1055-1060.
49. Rai V, Yadav U and Kumar P. 2011. Prevalence of Methylenetetrahydrofolate Reductase C677T Polymorphism in Eastern Uttar Pradesh. *IJIB.* 11(3): 153-154.
50. Rai V. 2011. Evaluation of Methylenetetrahydrofolate Reductase Gene Variant (C677T) as Risk Factor for Bipolar Disorder. *Cell. Mol. Biol.* 57:1558- 1566.
51. Rai V, Yadav U, Kumar P, Gupta S. 2011. Methionine Synthase Reductase (MTRR) A66G Polymorphism in Rural Population of Uttar Pradesh (India). *Biotechnology*, 10(2):220-223.
52. Rai V. 2011. Autism Genetics and Cytogenetic Abnormalities. *Trends in Molecular Sciences*, 3(1): 1-13.
53. Rai V, Jahan S, Kumar P. 2010. Demographic study of ABO and Rh (D) blood groups among Muslim population of Jaunpur district (U P). *Asian J Microbiol. Biotech. Env. Sci.*, 12(2) :1-5.
54. Rai V. 2010. Autism Susceptibility Genes Identification by Linkage Analysis: A Review. *Int. J. Hum. Genet.* 10(4):207-216.

55. Rai V and Kumar P. 2010. The incidence of ABO blood group in Muslim population of Uttar Pradesh, India. *J Appl Biosci* 36(2):191-195.
56. Rai V, Yadav U, Kumar P, Yadav SK. 2010. Methylenetetrahydrofolate reductase polymorphism (C677T) in Muslim population of Eastern Uttar Pradesh, India. *IJMS*, 64(5): 219-223.
57. Rai V. 2010. Methylenetetrahydrofolate reductase A1298C polymorphism and risk for male infertility: a meta-analysis. *Emerging trends in Biomedical Research, Proceeding* pp 270-285.

Books Published :

- “Cancer: A Cytogenetic and Molecular Approach” Publisher- Bioved Research Society, Allahabad. ISBN 81-85722-62-5. NLM ID: 101316945.
- "Recent Advances in Biotechnology, Volume 1", Publisher- Shree Publishers & Distributors, New Delhi-110002.
- "Recent Advances in Biotechnology, Volume 2", Publisher- Shree Publishers & Distributors, New Delhi-110002.
- "Recent Advances in Biotechnology, Volume 3", Publisher- Shree Publishers & Distributors, New Delhi-110002.

Chapters/Articles in Books:

- Rai V. and Kumar P.:2005: Monoclonal antibodies. In: *Recent Advances in Biotechnology*. Eds N.C. Gautam and M.P. Singh. Pub: Shree Publishers, New Delhi, pp 207-230.
- Rai V.: 2005: Molecular genetics of cancer. In: *Cancer-A Cytogenetic and Molecular Approach*. Ed: V. Rai, Pub: BRS Allahabad, pp. 1-28.
- Rai V.:2005: Gene Therapy of Cancer. In; *Cancer a Cytogenetic and Molecular Approach*. Ed: V. Rai, Pub: BRS Allahabad, pp 195-212.
- Kumar, P. and Rai V.: 2005: Biotechnology and Entrepreneurship. In: *WTO and Entrepreneurship development*. Ed: M Pandey. Pub: Shree Publishers and distributors, pp 160-172.
- Rai V.:2007: Pharmacogenomics. In: *Biotechnology current perspectives and applications and potential applications*. Ed. By P C Trivedi. Pub Avishkar publishers. Jaipur, pp-192-209.
- Rai V.: 2008: Proteomics: An overview. In: *Biotechnology Tissue culture to proteomics*. Pub. Pointer Publishers, Jaipur, pp. 262-277. ISBN: 978-81-7132-577-1.
- Rai V.: 2009: DNA vaccine: The new millennium vaccine. In: *Applications of Microbiology*. Pub. Avishkar Publishers, Distributors, Jaipur.
- Kumar P and Rai V.:2011:. *Stress and Diseases*. Editor Sigh AP. In: *Stress and Health, Emerging Trends and Challenges*. Pub. Alfa publications, pp 40-68.
- Rai V and Kumar P.2017. Stem cell and application. in *Recent Advances in Biotechnology, Volume 1*, Publisher- Shree Publishers & Distributors, New Delhi-110002.
- Rai V and Kumar P.2017. Biotechnology and its different fields. In *Recent Advances in Biotechnology, Volume 2*, Publisher- Shree Publishers & Distributors, New Delhi-110002.
- Rai V and Kumar P. 2017. RNA interference mechanisms and applications. In *Recent Advances in Biotechnology, Volume 3*, Publisher- Shree Publishers & Distributors, New Delhi-110002,
- Kumar P and Rai V. 2018. Nanotechnology in detection of pathogenic microorganism. *Recent Advances in Microbiology volume 3* Ed. N C Gautum, S P Tiwari, Rajesh Sharma. Nova Biomedical. Nova Publishers, USA in press.

Seminar/ Conference/Workshop organized:

1. Organized "East Zone Students Convention- Anveshan 2017" on February 20-21, 2017, sponsored by Association of Indian Universities, New Delhi (as East Zone Coordinator) (as organizing secretary).
2. Organized "University Level- Anveshan 2017" on February 17-18,2017, sponsored by VBS Purvanchal University, Jaunpur (as organizing secretary).
3. Organized seminar on "Role of CST,UP in Promotion of Science & Technology & Facilitation of IPR Protection" on December 8-9,2016,sponsored by Council of Science & technology, Uttar Pradesh(as co-organizing secretary).
4. Organized three days workshop on "Research Methodology and Computer Application-Workshop-I" for Ph D students of MBE,HRD,MBA, Commerce, Applied Psychology, Economics, Psychology, Sociology departments, on June 21-23,2016, VBS Purvanchal University, Jaunpur (as organizing secretary).
5. Organized three days workshop on "Research Methodology and Computer Application Workshop-II" for Ph D students of Biotechnology, Mathematics, Military Science, Physics, Chemistry, Botany, Zoology departments on June 22-24,2016, VBS Purvanchal University, Jaunpur (as organizing secretary).
6. Organized three days workshop on "Research Methodology and Computer Application Workshop-III " for Ph D students of Education(Faculty of Education), Philosophy, Education (Faculty of Arts), Geography departments on June 23-25,2016, VBS Purvanchal University, Jaunpur (as organizing secretary).
7. Organized three days workshop on "Research Methodology and Computer Application Workshop-IV " for Ph D students of English, Urdu, Hindi, Sanskrit, History, Ancient History, Political Science departments on June 24-26,2016, VBS Purvanchal University, Jaunpur (as organizing secretary) .
8. Organized one day seminar on " Prevention and Prohibition of Gender Bias and Sexual Harassment in Educational Institutions "March 10, 2016, VBS Purvanchal University, Jaunpur (as Convener).
9. Organized two days National Conference on "Biotechnology and Human welfare: New Vistas" March 21-22, 2015, VBS Purvanchal University, Jaunpur (as organizing secretary).
10. Organized on day seminar on "Issues on Gender Bias and Sexual Harassment on University/ College Campuses" May 13, 2014, VBS Purvanchal University, Jaunpur (as convener).
11. "Hands on training in Cell and Molecular Biology techniques for college teachers" Department of Biotechnology, VBS Purvanchal University, December 21, 2009 to January 2,2009 (as member of organizing committee).

Conferences/Seminar Attended: Fourty (40)

International-18

National- 22

Abstracts Published : Seventy Nine (79)

Popular Articles:

- Srivastava D, Rai V, Kumar P. 2018. Quantum dots: applications in biological sciences, in Souvenir National Science day Celebration Feb 26-27, pp27.
- Singh G, Rai V, Kumar P. 2018. Silver nanoparticles: properties and applications in Souvenir National Science day Celebration Feb 26-27, pp32.

- Rai V and Kumar P: Genetic analysis of ABO and Rh blood groups in Brahmin population of Uttar Pradesh, India. 2011. Nature Preceedings: hdl:10101/npre.2011.5931.1: Posted 30 Apr 2011.
- Rai V. 2011. Burdon of Birth defects/Congenital malformations in India. Souvenir National Science day Celebration Feb 28-10, pp36.
- Rai V. 2000. Cloning. Abhivyakti. University magazine.VBS Purvanchal University, Jaunpur.

Paper Presented in Seminar/Conferences:

- "Brain derived neurotrophic factor gene Val66Met polymorphism and susceptibility for Alzheimers disease" in Biosangam, An International Conference on Innovations and Translational Dimensions: Food, Health and ENvironmental Biotechnology, MNNIT, Allahabad, March 9-11, 2018.
- "Maternal MTHFR C667T polymorphism and risk of neural tube defects and cleft lip and/or palate ", in International Conference on Functional Biology and Molecular Interactions: Applications in Health and Agriculture, University of Lucknow, Lucknow, December 20-22, 2017.
- "Folate pathway gene MTHFR C677T polymorphism as risk factor for birth defects", Abs in 5th International Biochemistry and Molecular Biology Conference, Songkhla, Thailand, May 26-27,2016.
- "Association between depression and methylenetetrahydrofolate reductase gene polymorphism", Abs in International Conference on Translational Biotechnology (BioSangam 2016), organized by department of Biotechnology, MNNIT, Allahabad, February 4-6, 2016.
- "Cystathionine b-synthase gene 844Ins68 polymorphism screening in Down syndrome cases", Abs in National conference on Biotechnology and Human Welfare: New Vistas, Jaunpur, March 21-22, 2015.
- "*MTR* A2756G gene polymorphisms analysis in Down syndrome patients of Eastern UP", Abs in National conference on Biotechnology and Human Welfare: New Vistas, Jaunpur, March 21-22, 2015.
- "Association between MTHFR C677T polymorphism and Migraine risk: a meta-analysis", Abs in International Symposium on "Genomics in Health and Disease" & 40th Annual Conference of Indian Society of Human Genetics organized by National Institute of Immunohaematology(ICMR). January 28-30, 2015.
- "Evaluation of MTHFR C677T polymorphism as risk factor for nonsyndromic cleft lip/palate", Abs in National Seminar on Current Trends in Biological Sciences: Advances and Challenges, Janta College, Bakewar, Etawah, December 13-14,2014.
- Maternal MTHFR C677T polymorphism as risk factor for congenital defects (NTD, OFC and DS) ", Abs in International conference on Biotechnology and Bioengineering ICBB-2014 at Birla Institute of Technology and Science, Pilani, Dubai Campus, October 29-30, 2014.
- "Association of methylenetetrahydrofolate reductase (MTHFR) gene rs1801133 polymorphism with Autism: meta- analysis", Abs in 1st Global Conference of Biological Psychiatry, New Delhi, India,2014.
- "Prostate cancer , genetic susceptibility and counselling" in national seminar on emerging trends in Applied Psychology, February 11-12,2014, Department of Applied Psychology, VBS Purvanchal University, Jaunpur.
- "Maternal methylenetetrahydrofolate reductase (MTHFR) A1298C polymorphism and susceptibility to Down syndrome: a meta-analysis" in International Conference on Human

Genetics & 39th Annual Meeting of Indian Society of Human Genetics, January 22-25,2014, Ahmedabad.

- “Beta globin gene haplotypes in rural population of Eastern Uttar Pradesh” International Symposium on Developmental and Genetic Disorders & 38th Annual conference of the Indian Society of Human Genetics: Genomics and Community Health at BHU, Varanasi. December 9-11 (Section-).
- “Molecular Screening of Beta thalassemia mutation and its genetic modifiers in eastern Uttar Pradesh” International Symposium on Developmental and Genetic Disorders & 38th Annual conference of the Indian Society of Human Genetics: Genomics and Community Health at BHU, Varanasi. December 9-11 (Section-).
- “Assessment of MTHFR and MTRR Gene polymorphism as risk factor for Schizophrenia”. International Symposium on Developmental and Genetic Disorders & 38th Annual conference of the Indian Society of Human Genetics: Genomics and Community Health at BHU, Varanasi. December 9-11.
- “Red Cell Enzymes Polymorphism in Muslim Population of Uttar Pradesh”. International Symposium on Developmental and Genetic Disorders & 38th Annual conference of the Indian Society of Human Genetics: Genomics and Community Health at BHU, Varanasi. December 9-11.
- “C677T and A66G polymorphisms analysis in Down Syndrome patients” in International Conference on Genes, genetics & Genomics: Today & Tomorrow- Human Concerns and XXXVII Annual Conference of Human Genetics, March 3-5,2012, Panjab University, Chandigarh (Section: Medical & Clinical Genetics).
- “Folate pathway gene polymorphism study in nonfragile X syndrome mental retardation cases” in International Conference on Genes, genetics & Genomics: Today & Tomorrow- Human Concerns and XXXVII Annual Conference of Human Genetics, March 3-5,2012, Panjab University, Chandigarh (Section: Medical & Clinical Genetics).
- “Genetic polymorphism of red cell enzymes in five population of eastern Uttar Pradesh” in International Conference on Genes, Genetics & Genomics: Today & Tomorrow- Human Concerns and XXXVII Annual Conference of Human Genetics, March 3-5,2012, Panjab University, Chandigarh.
- Role of genetic awareness and counselling in prevention of genetic disorders in eastern UP India. International Meet on Collaboration with American Universities and International conference on counselling and community Psychology, VBS Purvanchal University, Jaunpur, December 17-19, 2011.
- Climate Change and Human Health: “Effect of environmental factors on frequency of birth defects”. National Conference on Impact of Global Warming and Climate Change on Diversity: The Challenge of Conservation of Flora and Fauna” RHSPG College Sigr mau, Jaunpur. February 21-22, 2012.
- “MTHFR A1298C Polymorphism Risk for Recurrent Spontaneous Abortion: A Meta-analysis” in 1st IFIP International Conference of Bioinformatics, March 25-28,2010, Sardar Vallabhbaipatel Institute of Technology Surat.
- “Screening of MTRR A66G polymorphism in Eastern UP Population” in National Seminar on Biotechnology & Health: Prospects & perspectives in 21st Century, March 19-20,2010,ITM Universe, Gwalior.
- “MTHFR C677T polymorphism screening in Eastern UP population” in International Symposium on Role of Genomics in Clinical Practice & 35th Annual Conference of the Indian Society of Human Genetics, March,6-8,2010 Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow (Section – Genetic Epidemiology).

- “Screening of Glucose 6 Phosphate Dehydrogenase Deficiency in Eastern U. P.” International Symposium on Role of genomics in Clinical Practice & 3^{5th} Annual Conference of the Indian Society of Human Genetics (ISHG 2010) at SGPGI Lucknow, India, March 6-8, 2010.
- “ Role of Medicinal plants in the treatment of psychiatric disorders” in National Seminar on Medicinal plants of Eastern Uttar Pradesh: Ethno Botanical perspectives, march 30-31, 2006, department of Mass Communication , VBS Purvanchal University.
- “Indian Women Scientists in the New Millenium” in Seminar on Women Leadership and Global Challenges, September, 26-27, 2006, HRD department, VBS Purvanchal University, Jaunpur.
- “Role of NGOs in Disease Management in Rural Area” in NGO Conference & Seminar on Rural Development, December, 22-23, 2004, Department of Applied Psychology, VBS Purvanchal University, Jaunpur.
- “Schizophrenia: The mystery and mechanism. National Seminar on New Directions in Applied Psychology. VBS Purvanchal University, Jaunpur. March 8-9, 2003.

Invited Lectures in Conference/Workshop:

- "Effect of environmental factors on frequency of birth defects" in National Conference on Impact of Global Warming and Climate Change on Diversity, organized by RHSPG College Sigramau, Janupur on February 22, 2012.
- "Challenges in Biotechnology Projects", in Entrepreneurship skill Development Program for Biotechnology, Organized by MSME Govt of India on April 2, 2008.

Orientation Programme/ Refresher Course/ Workshops/ Summer Schools attended:

- 63rd Orientation course (2002) organized by Academic Staff College, University of Allahabad, Allahabad.
- Refresher course (2005) in Biotechnology organized by Academic Staff College, JNU, New Delhi.
- CIMAP Winter School (CWS-2001) on “Recent Techniques in Gene Cloning, Sequencing and DNA profiling” 1-10 Dec’ 2001, at CIMAP, Lucknow.
- Refresher Course in Molecular and Developmental Genetics”, July 2-14 2003 sponsored by Academy of Sciences held at Cytogenetics Laboratory, Department of Zoology, BHU, Varanasi.
- ‘Entrepreneurship Skill Development Programme for Biotechnology’, March, 27-April 24, 2008, sponsored by Ministry of Micro, Small and Medium Enterprises, Govt. Of India.
- Refresher course (2009) in Environmental Awareness organized by UGC-Academic Staff College, Himachal Pradesh University, Shimla.
- 17th DBT sponsored training course on “Bioinformatics; A practical approach” conducted by Bioinformatics Center North- Eastern Hill University, Shillong April 19-24, 2010.
- “Workshop on Development of Concept in Modern Biology” sponsored by UGC at School of Life Sciences, JNU, New Delhi, Dec 10-16, 2010.
- SAM workshop sponsored by UGC at Baba BhimRao Ambedkar Central Univeristy, Lucknow April 4-8, 2011.
- “Workshop on Recent Trends in Structural Bioinformatics and Drug Designing” October 12-13, 2012, held at Bioinformatics Infrastructure facility (BIF), Centre of Excellence in Bioinformatics (COEBI), University of Lucknow, Lucknow.
- International Workshop on Counseling Skills in Health Profession and Schools, Jaunpur, October 23-2, 2013.

- Training Programme on the Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013, May 16-17, 2014.
- One day workshop on "Revisit of Guidelines & Modalities for Ph. D. Programme" held on May 8, 2015, organized by VBS Purvanchal University.
- "Author Workshop", held on October 31, 2015, organized by Vivekanand Central Library and Springer India.
- "Numerical Computation Using Matlab" organized by Faculty of Engineering, VBS Purvanchal university from November 26-30, 2015.
- "Workshop on Writing Research Paper", held on November 30, 2015 organized by Vivekanand Central Library and Sage Publication India Pvt Ltd.
- One day workshop on "User Awareness on Access for e-Resources", held on August 29, 2016, organized by Vivekanand Central Library and Pearson India Education.
- "How to Write and Publish Articles and Manuscripts-Author Workshop" held on March 21, 2017, organized by VBS Purvanchal University and Springer Nature.
- "Training Programme on Academic Leadership", organized by Centre of Academic Leadership and Education Management and Aligarh Muslim University under the scheme of Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNMTT), MHRD, Govt. of India from January 31 to February 03, 2018.

Research Students

(a) Ph. D. students supervised:

1. Dr Pradeep Kumar (23-08-2013): Title: "Genetic Polymorphism of Red Blood Cell Enzyme and Antigens in U P Population"
2. Dr Vivek Srivastava (5-10-2013) Title: "Elucidating the function of CHK2 mediated phosphorylation on BLM helicase"
3. Dr Upendra Yadav (4-6-16) Title: "Study of MTHFR and MTRR polymorphism in Eastern UP population"
4. Dr Sushil Kumar Yadav (17-3-2017) Title: "Molecular Study of Fragile X syndrome in UP population"

(b) Ph. D. students enrolled: 2

(c) Post Graduate (M.Sc.) Project Supervision: Thirty Six (36)

(d) Summer Training (M. Sc. and B. Tech.) : Ten (10)

Member Editorial Board of Journals:

- International Journal of Life Science and Pharma Review
- Asian journal of Medical Sciences
- International Journal of Pharmaceutical and Chemical Sciences
- American Journal of Biomedical Research
- International Biological and Biomedical Journal
- Aperito Journal of Biotechnology and Biomaterials: Recent Trends
- Journal of Congenital Disorders
- SM Autism and Epilepsy
- Journal of Women Health and Safety Research
- International Journal of Neurology and Neurosurgery
- Letters in Health & Biological Sciences
- Food and Nutrition Report

- eSciRes
- Journal of Womens Health & Safety Research

International Scientific Committee member:

- i. ICDAC 2018: 20th International Conference on domestic animals and cytogenetics, Paris France December 27-28, 2018
- ii. ICNPM 2017 : 19th International Conference on Neonatal and Perinatal Medicine, Sydney, Australia, December 4 - 5, 2017

Reviewer of Journals:

- Molecular Biology Reports ;Genetic Testing and Molecular Biomarkers ;Notulae Scientia Biologicae ;Indian Journal of Biochemistry and Biophysics; Indian Journal of Medical Research ; Metagene ; Neuroscience Letter; Plos one; Journal of Assisted Reproduction and Genetics; International Journal of Genetics and Molecular Biology; International Journal of Applied and Basic Medical Research; The Journal of Obstetrics and Gynecology; Indian Journal of Clinical biochemistry

Memberships of professional bodies:

- Indian Academy of Neurosciences (IAN)
- Biotech Research Society of India (BRSI)
- Indian Society of Human Genetics (ISHG)
- Indian Women Scientists Association (ISWA)
- Indian Science Congress Association (ISCA)
- Indian Society of Cell Biology (ISCB)
- Bioved Research Society of India (BRSI)
- Bioinformatics Institute of India (BII)
- All India Congress of Cell Biology and Genetics (AICCG)
- Indian Association of Cancer Research (IACR)
- International Society of Applied Biology (ISAB)

Administrative Experience:

- **Dean**, Faculty of Science, VBS Purvanchal University, Jaunpur (since 6-5-2017)
- **Head**, Department of Biotechnology, VBS Purvanchal University, Jaunpur (since 3-3-2017)
- **Head**, Department of Microbiology, VBS Purvanchal University, Jaunpur (since 3-3-2017)
- **Head**, Department of Biochemistry, VBS Purvanchal University, Jaunpur (since 3-3-2017)
- **Head**, Department of Environmental Sciences, VBS Purvanchal University, Jaunpur (since 3-3-2017)
- **Chairperson**, Internal Complaint Committee, VBS Purvanchal University, Jaunpur
- **Chairperson**, Women Cell, VBS Purvanchal University, Jaunpur (2013-2016; 2016-2019)
- **Convener**, Central Women Flying Squad, VBS Purvanchal University (2013)
- **Assistant Dean Student's Welfare (ADSW)**, VBS Purvanchal University, Jaunpur (2011-2014; 2014-2017; 2017-cont.)
- **Member**, Internal Quality Assurance Cell (IQAC)
- **Member**, Admission Committee (2017,2018)
- **Member**, Examination Committee (2017,2018)
- **Member**, Ph D Admission Committee (2015,2016)
- **Assistant Proctor**, V B S Purvanchal University, Jaunpur (2008, 2009, 2010, 2012)

- **Convener**, Anti Ragging Squad (Women), V B S Purvanchal University, Jaunpur (2008)
- **Member**, Women Cell, V B S Purvanchal University, Jaunpur (2006-2012)
- **Member**, Anti-ragging cell (2009)
- **Library in-charge**, Department of Biotechnology, VBS Purvanchal University (2000-2018).
- **Warden**, Girls Hostel, from 2001-2002, V B S Purvanchal University Jaunpur

Member of Academic Bodies:

- **Member, Executive Council**, VBS Purvanchal University Jaunpur (2017)
- **Member, Examination Committee**, VBS Purvanchal University Jaunpur (2017)
- **Member, Academic Council**, VBS Purvanchal University Jaunpur (2012-2014; 2017)
- **Convener**, Departmental Research Committee, Department of Biotechnology, VBS Purvanchal University, Jaunpur (2017-2018)
- **Convener**, Board of Studies (BOS), Department of Microbiology (2017-2018), V B S Purvanchal University, Jaunpur
- **Convener**, Board of Studies (BOS), Department of Biochemistry (2017-2018), V B S Purvanchal University, Jaunpur
- **Convener**, Board of Studies (BOS), Department of Environmental Sciences (2017-2018), V B S Purvanchal University, Jaunpur
- **Convener**, Board of Studies (BOS), Department of Biotechnology (2015-2017), V B S Purvanchal University, Jaunpur
- **Member**, Board of Studies (BOS), Department of Biotechnology (2009-2013)
- **Member**, Board of Studies (BOS), Department of Pharmacy (2017, 2015, 2014, 2009)

Additional Responsibility

- **Observer**, Ph D., B. Ed and M. Ed entrance examinations
- **Observer**, UG and PG examinations conducted by University
- **Subject expert**, Inspection committee to inspect colleges for permanent affiliations (UG level)
- **Co-convener**, Science day celebration, 2015

General Awareness Program Conducted:

- Participated in one day health check up camp on October 24, 2009, organized by Lions Club, Jaunpur
- Health Awareness Campaign in Rural Women of Jaunpur district: Special emphasis on Genetic Disorder on April, 27, 2009.
- Participated in one day health check up camp on October 24, 2009, organized by Lions Club, Jaunpur. Laboratory visit of PG students of Purvanchal University to introduce techniques and protocols for the identification of MTHFR and MTRR polymorphism on November 3, 2009.
- Genetic disorder awareness campaign in Purvanchal University for women students on December, 2, 2009.
- Genetic disorder awareness campaign in Government Inter College, Jasopur, Jaunpur on January 20, 2010.
- Genetic disorder awareness campaign in Jaunpur district on February, 20, 2010
- Awareness program for congenital and genetic defects in Rural women in Jasopur village, Jaunpur on May 11, 2010.
- Genetic Awareness Campaign: Role of Folate and MTHFR, MTRR in Genetic Disorders on August 14, 2010.

- Genetic disorder awareness campaign for rural women of Devkali village, Jaunpur on November 2,2010.
- Genetic disorder awareness campaign for women in Jaunpur: screening for MTHFR C677T allelic variant on November 28,2010.
- Participated in Cancer Awareness program among Youth on December 4, 2010.
- Organized blood group-testing camp on National Science Day Celebration, 2011.
- "Sensitization /Awareness Program for Women Teachers and Employees of VBS Purvanchal University against Gender Bias and Sexual Harassment", held on October 1,2014.
- Ozone day celebration-2016 for awareness for ozone layer conservation, September 16,2016, organized by Department of Environmental Sciences, VBS Purvanchal university, Jaunpur

Cours/papers teaching at PG/Ph. D. level:

- Cell Biology
- Immunology
- Applied Molecular Biology
- Medical Genetics

Date: 22-10-2018

Place : Jaunpur

Prof. Vandana Rai