

## CURRICULUM VITAE

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### Present Occupation

Employer	Designation	Date
Veer Bahadur Singh Purvanchal University, Jaunpur	Professor, Department of Biotechnology	10.01.2018
Veer Bahadur Singh Purvanchal University, Jaunpur	Associate Professor, Department of Biotechnology	10.01.2014
Veer Bahadur Singh Purvanchal University, Jaunpur	Assistant Professor, Department of Biotechnology	10.01.2011
Veer Bahadur Singh Purvanchal University, Jaunpur	Assistant Professor, Department of Biotechnology	10.01.2006
Veer Bahadur Singh Purvanchal University, Jaunpur	Lecturer, Department of Biotechnology	10.01.2000

### Education

Degree Awarded	University/Board	Year of Award	Subject & Title of the Thesis	
Ph. D.	Veer Bahadur Singh Purvanchal University, Jaunpur	2013	Biotechnology, <b>Title of the Thesis:</b> "Genetic Polymorphism of Red Blood Cell Enzymes and Antigens in U.P. Population" (Enrol. No.: P.U.:04-0096. DOV-23.08.2013)	
Examination Passed	University/Board	Year of Passing	Subject/s	Division
CSIR-UGC Test for JRF(NET)	CSIR-HRDG, NEW Delhi	1998	Life Sciences(Certificate/Letter No. 2-34/98(i)-E.U.-II; Roll No. 40895)	CSIR-JRF
M. Sc. (Biotechnology)	University of Roorkee (now IIT Roorkee)	1997	Recombinant DNA technology, Cell & Molecular Biology Immunology, Biophysics etc.	I
B.Sc.(T.D.C.)(CBZ)	C.C.S. University, Meerut	1995	Chemistry, Zoology, Botany	I
Senior School Certificate Examinations (Class XII)	C.B.S.E., New Delhi	1992	English, Hindi, Physics Chemistry, Biology	I
Secondary School Examinations (Class X)	C.B.S.E., New Delhi	1990	English, Hindi, Maths, Science, Social Studies	I

## Fellowships/Scholarships

1. Fellowship of International Society for Noni Science (ISNS), Chennai India. 2022
2. F.S.L.Sc., Society of Life Sciences, India 2019
3. Selected for National Overseas Scholarship-2006, Govt. of India (Not availed).
4. “Summer Research Fellowship for Teachers” of Indian Academy of Sciences, Bangalore, 2002. Worked under the supervision of Prof. Sudha Bhattacharya, School of Environmental Sciences, JNU, New Delhi, on a project entitled “Study of replication initiation in rDNA plasmid of *Entamoeba histolytica* under serum starved conditions”.
5. CSIR-Junior Research Fellowship, CSIR-UGC (NET)-JRF from 1-01-1999 to 31-12-1999 at Department of Biosciences & Biotechnology, University of Roorkee, Roorkee.
6. UPCST Project fellow in project entitled “Molecular changes in the cell wall proteins of *Arachis hypogea*”, at Department of Biosciences & Biotechnology, University of Roorkee, Roorkee. November 1997 to December 1998.
7. DBT fellowship, MHRD, Government of India, for pursuing M. Sc. in Biotechnology from 1995 to 1997.

## Honours & Awards

1. “**Certificate of Excellence**” (**Utkrisht Shikshak Award**) in recognition of an outstanding contribution by Honourable Vice Chancellor, V.B.S. Purvanchal University, Jaunpur on 21-02-2023.
2. “**Certificate of Commendation**” by Honourable Vice Chancellor, as a mark of respect for discharging the duties and responsibilities assigned, with full responsibility and integrity and in recognition of outstanding contribution to the university, on the auspicious occasion of Independence Day and “Azadi ka Amrit Mahotsav”, on 15-08-2022.
3. “**Certificate of Honor**” for being featured in the list of Top 2% Scientists Worldwide in study conducted by Stanford University, USA and Published by Elsevier in 2021 on 18-11-2021.
4. **Young Scientist Award (OP-III)** in International conference “NAMASTE – 2020” (Novel Aspects in Medicines, Allied Sciences, and Technologies for new Developing Era – 2020), organized by DNA Labs- A centre for Applied Sciences, Dehradun, (UK) India, September 10-12, 2020.
5. **Certificate of Excellence in Reviewing** from Journal of Pharmaceutical Research International in recognition of an outstanding contribution to the quality of the journal. 2020.
6. **Certificate of Excellence in Reviewing** from Journal of Advances in Medicine and Medical Research in recognition of an outstanding contribution to the quality of the journal 2019.
7. **First prize in oral presentation** (Senior Scientist Category) in International Conference on Recent Advances in Life Sciences for Betterment of Environment and Human Health (ICRALBEH-2019) & 8<sup>th</sup> Annual Session of Society of Life Sciences. Organized by Govt. Holkar (Model, Autonomous) Science College, Indore (MP), December 14-15, 2019.
8. **Second prize in oral presentation** in National Seminar on Current Trends in Biological Sciences: Advances and Challenges organized by Janta College, Bakewar, Etawah. December 13-14, 2014.
9. **Third prize in oral presentation** in International seminar on New Frontiers in Biotechnology: Functional Genomics & Proteomics. Organized by Invertis University, Bareilly, September 27-28, 2014.
10. **Second prize in oral presentation** at National Conference on Biolife: The Amalgamation of Multidisciplinary Life Sciences NCBL-2013. Organized by Bio-EGICORE (dept. of Life Sciences, EGICORE, Lucknow), March 9-10, 2013.
11. **Best Poster Award** at National Seminar on Biotechnology & Health: Prospects & Perspective in 21<sup>st</sup> Century organized by ITM, Universe, Gwalior. March 19-20, 2010.

## Research Projects

1. VBS Purvanchal University, Jaunpur sponsored Minor Research Project entitled “Molecular Screening of INF-  $\gamma$  polymorphism (874T/A) in Tuberculosis Patients of Jaunpur District” amount Rs. 1.0 lakh from 23.03.2022 to 22.09.2023.
2. UGC Minor Research Project entitled “Genetic Polymorphism Study of Red Blood Cell Enzymes and Antigens in Eastern UP population”, amount Rs.1.70 lakh from 1-02-2011 to 31-01-2013.
3. UGC Minor Research Project entitled “Chromosomal analysis of Thalassemia Patients” for a period of two years, amount Rs. 1 lakh From 05 -04-2006 to 31-03-2008.

## Involvement with Formulation of Academic Programmes & Syllabus Development

1. Developed Common Minimum Syllabus for all UP State Universities and Colleges for First Three Years of Higher Education of Subject–Biotechnology (for three subject pattern) under National Education Policy-2020.
2. Developed Ordinance and Syllabus for B. Sc. (Hons.) Biotechnology Three-year (Six semesters) undergraduate degree program Faculty of Science under Choice Based Credit System (CBCS) As per the guidelines of NEP-2020 w.e.f. 2022-23 (Session) as Convenor of BOS, Biotechnology, VBS Purvanchal University, Jaunpur.
3. Developed Ordinance and Syllabus for M. Sc. in Biotechnology (Two-year (Four semesters) postgraduate degree program) Faculty of Science under Choice Based Credit System (CBCS) as per the guidelines of NEP-2020 w.e.f. 2022-23 (Session) as Convenor of BOS, Biotechnology, VBS Purvanchal University, Jaunpur
4. Developed Pre- Ph.D. Course Work (Ordinance and Syllabus)Biotechnology (w.e.f. 2022-23) (As per National Educational Policy-2020) as Convenor of BOS, Biotechnology, VBS Purvanchal University, Jaunpur
5. Observer, for development of Ordinance and Syllabus of all the courses running in VBS Purvanchal University Under Choice Based Credit System (CBCS) as per the guidelines of NEP-2020 by BOSs w.e.f. 2022-23 (Session) VBS Purvanchal University, Jaunpur

## Publications

1. **Kumar P**, Chaudhary A, Rai V. Evaluation of the Relationship Between Dopamine Receptor D2 Gene TaqIA1 Polymorphism and Alcohol Dependence Risk. Ind J Clin Biochem. 1-13. <https://doi.org/10.1007/s12291-023-01122-7>
2. Singh PP; et al. Estimation of real COVID-19 cases in India during the first wave. IJID Regions. 2023. 6; 80–83 <https://doi.org/10.1016/j.ijregi.2023.01.008>
3. Rai, V., **Kumar, P**. Relation between Methylenetetrahydrofolate Reductase Polymorphisms (C677T and A1298C) and Migraine Susceptibility. Ind J Clin Biochem. 2022; 37: 3–17. ISSN: 0974-0422. <https://doi.org/10.1007/s12291-021-01000-0>
4. Rai V., Jamal F. and **Kumar P**. Brain derived Neurotrophic Factor (BDNF) Val66Met Polymorphism is not risk factor for Bipolar Disorder IJBI. 2022; 4(1): 16-28. E-ISSN: 2582-1032 <https://doi.org/10.46505/IJBI.2022.4102>
5. Srivastava U, Tripathi AK, Kaur J, Devi S, Verma S, Singh V, Das D, Singh PP, Mishra RK, Kumar NA, Mishra VN, **Kumar P**, Rai V, Tamang R, Suravajhala P, Pandey R and Chaubey G (2022) Vaccine hesitancy for coronavirus SARS-CoV-2 in Varanasi India. Front. Public Health 10:892584. <https://doi.org/10.3389/fpubh.2022.892584>
6. Yadav U, **Kumar P**, Rai V. Interleukin-10 (IL-10) gene polymorphisms and prostate cancer susceptibility: Evidence from a meta-analysis. Gene Rep. 2021. 25; 101377. ISSN: 2452-0144. <https://doi.org/10.1016/j.genrep.2021.101377>

7. Yadav U, **Kumar P**, Rai V. FokI polymorphism of the vitamin D receptor (VDR) gene and susceptibility to tuberculosis: Evidence through a meta-analysis. *Infect. Genet. Evol.* 2021. 92:104871. ISSN: 1567-1348. <https://doi.org/10.1016/j.meegid.2021.104871>
8. Chaudhary A, **Kumar P**, Rai V. Catechol-O-Methyltransferase(COMT) Val158Met Polymorphism and Susceptibility to Alcohol Dependence. *Ind J Clin Biochem.* 2021; 36: 257–265. ISSN: 0974-0422. <https://doi.org/10.1007/s12291-020-00933-2>
9. Yadav U, **Kumar P**, Rai V. Distribution of Methionine Synthase Reductase (MTRR) Gene A66G Polymorphism in Indian Population. *Ind J Clin Biochem.* 2021; 36: 23–32. ISSN: 0974-0422. <https://doi.org/10.1007/s12291-019-00862-9>
10. Rai V, **Kumar P**. Methylenetetrahydrofolate reductase (MTHFR) gene C677T (rs1801133) polymorphism and risk of alcohol dependence: a meta-analysis. *AIMS Neurosci.* 2021; 8(2): 212-225. ISSN 2373-7972. doi: [10.3934/Neuroscience.2021011](https://doi.org/10.3934/Neuroscience.2021011)
11. Singh PP, Srivastava AK, Upadhyay SK, Singh A, Upadhyay S, **Kumar P**, Rai V, Shrivastava P, Chaubey G, Serosurveillance Consortium BHU. The association of ABO blood group with the asymptomatic COVID-19 cases in India. *Transfus. Apher. Sci.* 2021. ISSN: 1473-0502 <https://doi.org/10.1016/j.transci.2021.103224>
12. Rai V, Yadav U and **Kumar P**. Molecular Screening of Hemoglobin E Variant in Anemia Patients of Eastern UP Population, India. *Austin Hematol.* 2021; 6(3): 1042. ISSN 2690-2443. <https://austinpublishinggroup.com/austin-hematology/fulltext/hematol-v6-id1042.pdf>
13. Rai V, Yadav U and **Kumar P**. Molecular Screening of Hemoglobin S Variant in Anemia Patients of Eastern UP Population. *J Blood Disord.* 2021; 8(1): 1064. ISSN 2379-8009. <https://austinpublishinggroup.com/blood-disorders/fulltext/blooddisorders-v8-id1064.pdf>
14. Rai V, Yadav U, **Kumar P**, Mishra OP. Molecular Screening of Hemoglobin D Variant in Anemia Patients of Eastern UP Population, India. *Ann Hematol Oncol.* 2021; 8(2): 1330. ISSN : 2375-7965. <https://austinpublishinggroup.com/hematology/fulltext/hematology-v8-id1330.pdf>
15. Yadav U, **Kumar P**, Rai V. Maternal biomarkers for early prediction of the neural tube defects pregnancies. *Birth Defects Res.* 2020; 1–12. ISSN:2472-1727 <https://doi.org/10.1002/bdr2.1842>
16. **Kumar P**, Rai V. Catechol-O-methyltransferase gene Val158Met polymorphism and obsessive compulsive disorder susceptibility: a meta-analysis. *Metab. Brain Dis.* 2020; 35:241-251.ISSN 0885-7490. <https://doi.org/10.1007/s11011-019-00495-0>
17. Yadav U, **Kumar P**, Rai V. Vitamin D receptor (VDR) gene FokI, BsmI, ApaI, and TaqI polymorphisms and osteoporosis risk: a meta-analysis. *Egypt J Med Hum Genet.* 2020; 21:15. ISSN: 2090-2441 <https://jmhg.springeropen.com/track/pdf/10.1186/s43042-020-00057-5>
18. **Kumar P**, Rai V. Catechol-O-Methyltransferase Gene Val158Met Polymorphism and Prostate Cancer Susceptibility. *Biomed Res Health Adv.* 2020;2(1):1010. ISSN: 2691-5707. <http://www.medtextpublications.com/biomed-research-and-health-advances-articles-in-press.php>
19. **Kumar P**, Singh G, Rai V. Evaluation of COMT Gene rs4680 Polymorphism as a Risk Factor for Endometrial Cancer. 2018. *Ind J Clin Biochem.* ISSN: 0974-0422. <https://doi.org/10.1007/s12291-018-0799-x>
20. Yelamanchi SD, Tyagi A, Mohanty V, Dutta P, Korbonits M, Chavan S, Advani J, Madugundu AK, Dey G, Datta KK, Rajyalakshmi M, Sahasrabuddhe NA, Chaturvedi A, Kumar A, Das AA, Ghosh D, Jogdand GM, Nair HH, Saini K, Panchal M, Sarvaiya MA, Mohanraj SS, Sengupta N, Saxena P, Subramani PA, **Kumar P**, Akkali R, Reshma SV, Santhosh RS, Rastogi S, Kumar S, Ghosh SK, Irlapati VK, Srinivasan A, Radotra BD, Mathur PP, Wong GW, Satischandra P, Chatterjee A, Gowda H, Bhansali A, Pandey A, Shankar SK, Mahadevan A, Prasad TSK. Proteomic Analysis of the Hyman Anterior Pituitary Gland. *OMICS.* 2018;22(12):759-769. ISSN: 1536-2310(Print) ISSN: 1557-8100(Online) <https://doi.org/10.1089/omi.2018.0158>
21. Rai V, **Kumar P**. Methylenetetrahydrofolate reductase C677T polymorphism and susceptibility to epilepsy. *Neurol Sci.* 2018; 39(12):2033-2041. ISSN: 1590-1874 (Print) 1590-3478 (Online) <https://doi.org/10.1007/s10072-018-3583-z>.

22. **Kumar P**, Rai V. Methylenetetrahydrofolate reductase C677T polymorphism and risk of esophageal cancer: An updated meta-analysis. *Egypt J Med Hum Genet* 2018; 19(4): 273-284. ISSN 1110-8630 <https://doi.org/10.1016/j.ejmhg.2018.04.003>
23. Rai V, **Kumar P**. Methylenetetrahydrofolate Reductase A1298C Polymorphism and Autism Susceptibility. *Austin J Autism & Relat Disabil.* 2018; 4(1): 1048. ISSN: 2472-341X <http://austinpublishinggroup.com/autism/all-issues.php>
24. Yadav U, **Kumar P**, Rai V. NQO1 gene C609T polymorphism (dbSNP:rs1800566) and digestive tract cancer risk: A Meta analysis. *Nutr Cancer.* 2018; 70(4): 557-568. ISSN: 0163-5581 (Print) 1532-7914 (Online). <https://doi.org/10.1080/01635581.2018.1460674> .
25. Rai V, **Kumar P**. Fetal MTHFR C667T polymorphism confers no susceptibility to Down syndrome: Evidence from meta-analysis. *Egypt J Med Hum Genet.* 2018; 19: 53-58. <http://dx.doi.org/10.1016/j.ejmhg.2017.06.006>
26. Rai V, Yadav U, **Kumar P**, Yadav SK, Gupta S. Methylenetetrahydrofolate Reductase A1298C Genetic Variant and Risk of Schizophrenia: an updated meta-analysis. *Indian J Med Res.* 2017; 145: 437-447. ISSN 0971-5916. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5663157/>
27. **Kumar P**, Yadav U, Rai V. Prevalence of COMT Val158Met polymorphism in Eastern UP population. *Cell Mol Biol.* 2017; 63(6): 21-24. ISSN 1165-158X. <http://dx.doi.org/10.14715/cmb/2017.63.6.5>
28. Rai V. Yadav U. **Kumar P**. Impact of Catechol-O-methyltransferase Val 158 Met(rs4680) polymorphism on breast cancer susceptibility in Asian population. *Asian Pac. J Cancer Prev.* 2017; 18(5):1243-1250. <https://dx.doi.org/10.22034/2FAPJCP.2017.18.5.1243>
29. Rai V, **Kumar P**. Methylenetetrahydrofolate Reductase C677T Polymorphism and Risk for Male Infertility in Asian Population. *Ind J Clin. Biochem.* 2017; 32(3), 253-260. ISSN: 0974-0422. <https://dx.doi.org/10.1007/2Fs12291-017-0640-y>
30. Yadav U, **Kumar P**, Gupta S, Rai V. Distribution of MTHFR C677T Gene Polymorphism in Healthy North Indian Population and an Updated Meta-analysis. *Ind J Clin Biochem.* 2017; 32(4), 399-410. ISSN: 0974-0422. <https://dx.doi.org/10.1007/2Fs12291-016-0619-0>
31. Rai V, Yadav U, **Kumar P**. Null association of maternal MTHFR A1298C polymorphism with Down syndrome pregnancy: An updated meta-analysis. *Egypt J Med Hum Genet.* 2017; 18: 9-18. ISSN 1110-8630. <doi:10.1016/j.ejmhg.2016.04.003>
32. Yadav U, **Kumar P**. Gupta S, Rai V. Role of MTHFR C677T gene polymorphism in the susceptibility of schizophrenia: an updated metaanalysis. *Asian J Psychiatr.* 2016; 20: 41-51. ISSN 1876-2018. <http://dx.doi.org/10.1016/j.ajp.2016.02.002>.
33. **Kumar P**, Yadav U, Rai V. Prevalence of glucose-6-phosphate dehydrogenase deficiency in India: An updated meta-analysis. *Egypt J Med Hum Genet.* 2016; 17: 295-302. ISSN 1110-8630. <http://dx.doi.org/10.1016/j.ejmhg.2016.01.004>
34. Yadav U, **Kumar P**, Rai V. Role of MTHFR A1298C gene polymorphism in the etiology of prostate cancer: A systematic review and updated meta-analysis. *Egypt J Med Hum Genet.* 2016; 17: 141-148. ISSN 1110-8630. <http://dx.doi.org/10.1016/j.ejmhg.2015.06.005>
35. **Kumar P**, Yadav U, Rai V. Methylenetetrahydrofolate reductase gene C677T polymorphism and breast cancer risk: evidence for genetic susceptibility. *MetaGene.* 2015; 6: 72-84. ISSN 2214-5400. <https://dx.doi.org/10.1016/2Fj.mgene.2015.08.008>
36. **Kumar P**, Kumar P, Rai V. Distribution of ABO blood groups in the malaria patients belonging to OBC population of eastern Uttar Pradesh. *J. Exp. Zoo. India.* 2015; 18(1): 31-33. Print ISSN 0972-0030, e-ISSN 0976-1780. [https://connectjournals.com/toc.php?aid=%20Praveen%20Kumar%20and%20Vandana%20Rai&&bookmark=CJ-033215&&volume=18&&issue\\_id=Supp-1&&month=June&year=2015#](https://connectjournals.com/toc.php?aid=%20Praveen%20Kumar%20and%20Vandana%20Rai&&bookmark=CJ-033215&&volume=18&&issue_id=Supp-1&&month=June&year=2015#)
37. Yadav U, **Kumar P**, Yadav SK, Mishra OP, Rai V. Polymorphisms in folate metabolism genes as maternal risk factor for neural tube defects: an updated meta-analysis. *Metab. Brain Dis.* 2015; 30(1):7-24. ISSN 0885-7490. <http://www.ncbi.nlm.nih.gov/pubmed/25005003>

38. Rai V, Yadav U, **Kumar P**, Yadav SK Methylenetetrahydrofolate reductase polymorphism is not risk factor for Down syndrome in North India. *Indian J Hum Genet.* 2014; 20:142-7. <http://www.ncbi.nlm.nih.gov/pubmed/25400341>
39. Rai V, Yadav U, **Kumar P**, Yadav SK, Mishra OP. Maternal Methylenetetrahydrofolate Reductase C677T Polymorphism and Down Syndrome Risk: A Meta-Analysis from 34 Studies. *PLoS ONE.* 2014; 9(9):e108552. <https://dx.doi.org/10.1371%2Fjournal.pone.0108552>
40. Rai V, **Kumar P**. Glucose-6-phosphate dehydrogenase deficiency in Muslim community settled in Jaunpur district. *Indian J Hum Genet.* 2014; 20(1):96-7. ISSN 0971-6866. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4065490/>
41. Rai V, Yadav U, **Kumar P**, Yadav SK. Analysis of methionine synthase reductase polymorphism (A66G) in Indian Muslim population. *Indian J Hum Genet.* 2013; 19(2):183-7. ISSN 0971-6866. <https://dx.doi.org/10.4103%2F0971-6866.116123>
42. Rai V, Yadav U, **Kumar P**. MTRR A66G polymorphism among two caste groups of Uttar Pradesh (India). *Indian J Med Sci.* 2012; 66(5-6):136-40. ISSN 0019-5359. <http://www.ncbi.nlm.nih.gov/pubmed/23806987>.
43. Rai V, Yadav U, **Kumar P**. Prevalence of methylenetetrahydrofolate reductase C677T polymorphism in eastern Uttar Pradesh. *Indian J Hum Genet.* 2012; 18(1):43-46. ISSN 0971-6866. <http://www.ncbi.nlm.nih.gov/pubmed/22754220>.
44. Rai V, Yadav U, **Kumar P**. Genotype prevalence and allele frequencies of 5,10-methylenetetrahydrofolate reductase (mthfr) c677t mutation in two caste groups of India. *Cell Mol Biol (Noisy-le-grand).* 2012; 58 Suppl: OL1695-701. ISSN 1165-158X. <http://www.ncbi.nlm.nih.gov/pubmed/22762524>.
45. **Kumar P**, Rai V. Climate Change and Human Health: Malaria and Glucose-6-Phosphate dehydrogenase deficiency. *Res Environ Life Sc.* 2012; 5(4):211-212. ISSN 0974-4908.
46. Rai V, **Kumar P**. Epidemiological Study of Glucose-6-phosphate Dehydrogenase Deficiency in Scheduled Caste Population of India. *J Anthropol.* 2012; 1-5. ISSN 2090-4045. <http://www.hindawi.com/journals/janth/2012/984180/>.
47. **Kumar P**, Rai V. Red Blood Cell Antigen Distribution In Scheduled Caste Population Of Uttar Pradesh, India. *Asian Jr. of Microbiol. Biotech. Env. Sc.* 2012; 14(2):217-222. ISSN-0972-3005. [http://www.envirobiotechjournals.com/article\\_abstract.php?aid=877&iid=25&jid=1](http://www.envirobiotechjournals.com/article_abstract.php?aid=877&iid=25&jid=1)
48. Rai V, Yadav U, **Kumar P**, Mishra OP and Gupta S. Prevalence of methylenetetrahydrofolate reductase C677T polymorphism *IJIB.* 2011; 11(3):153-154. ISSN 0973-8363. <http://www.classicus.com/IJIB/>
49. Rai V, Yadav U, **Kumar P**, Gupta S. Methionine synthase reductase (MTRR) A66G polymorphism in rural population of Uttar Pradesh (India). *Biotechnology.* 2011; 10:220-223. <http://scialert.net/qredirect.php?doi=biotech.2011.220.223&linkid=pdf>. ISSN 1682-296X.
50. Rai V, **Kumar P**. Genetic Analysis of ABO and Rh Blood Groups in Backward Caste Population of Uttar Pradesh, India. *Not Sci Biol.* 2011; 3(3):07-14. ISSN 2067-3264. <http://www.notulaebiologicae.ro/index.php/nsb/article/view/6073>.
51. Yadav U, **Kumar P**, Rai V. Docking Study of MTHFR with FAD by Hex. *J. Computational Intelligence in Bioinformatics.* 2011; 4(1): 171-178. ISSN 0973-385X.
52. Rai V, Yadav U, **Kumar P**, Yadav SK. Methylenetetrahydrofolate reductase polymorphism (c677t) in muslim population of eastern uttar pradesh, India. *Indian J Med Sci.* 2010; 64(5):219-23. [PMID:22842321;http://www.ncbi.nlm.nih.gov/pubmed/22842321](http://www.ncbi.nlm.nih.gov/pubmed/22842321).ISSN 0019-5359.
53. **Kumar P**, Saima, Rai V. Study of ABO and Rh(D) blood groups in Sunni Muslims of Jaunpur district. *Anthropologist.* 2010; 12(3) 225-226. <https://www.tandfonline.com/doi/pdf/10.1080/09720073.2010.11891159> ISSN 0972 0073
54. Rai V, **Kumar P**. The Incidence of ABO Blood Group in Muslim Population of Uttar Pradesh, India. *J. Appl. Biosci.* 2010; 36(2):191-195. ISSN 0975 -685X. [http://www.connectjournals.com/achivestoc.php?bookmark=CJ-000267&volume=36&year=2010&issue\\_id=02&issue\\_month=December.#](http://www.connectjournals.com/achivestoc.php?bookmark=CJ-000267&volume=36&year=2010&issue_id=02&issue_month=December.#)

55. Rai V, Jahan S, **Kumar P**. Demographic study of ABO and Rh (D) Blood Groups among Muslim Population of Jaunpur District (U P). Asian Jr. Microbiol. Biotech. Env. Sc. 2010; 12(2):429-432. [http://www.envirobiotechjournals.com/issue\\_articles.php?iid=34&jid=1](http://www.envirobiotechjournals.com/issue_articles.php?iid=34&jid=1) ISSN 0972-3005
56. Rai V, Maurya SK, **Kumar P**. ABO and Rh(D) Blood Groups Distribution Among Khatik (Scheduled Caste) Population of Jaunpur District (U P). Pb. Univ. Res. J. (Sci.). 2009; 59:107-109. ISSN 0555-7631
57. **Kumar P**, Maurya A.K., Rai V. ABO and Rh(D) blood groups among maurya (Backward Caste) population of Jaunpur district (UP), India. Asian Jr. Microbiol. Biotech. Env. Sc. 2009; 11(4):723-726. ISSN-0972-3005. [http://www.envirobiotechjournals.com/article\\_abstract.php?aid=4366&iid=153&jid=1](http://www.envirobiotechjournals.com/article_abstract.php?aid=4366&iid=153&jid=1) [http://www.envirobiotechjournals.com/article\\_abstract.php?aid=4366&iid=153&jid=1](http://www.envirobiotechjournals.com/article_abstract.php?aid=4366&iid=153&jid=1)
58. **Kumar P**, Maurya S, Rai V. Distribution of ABO and Rh(D) Blood Groups among Koari (Backward Caste) Population of Jaunpur District. Anthropologist. 2009; 11(4), 309-310. ISSN 0972 0073. <https://www.tandfonline.com/doi/pdf/10.1080/09720073.2009.11891122>
59. Rai V, Verma AK, **Kumar P**. A study of ABO and Rh (D) blood groups among Kurmi (Backward Caste) of Jaunpur district. Anthropologist. 2009; 11(4):305-306. <https://www.tandfonline.com/doi/pdf/10.1080/09720073.2009.11891120> \_ISSN 0972 0073
60. **Kumar P**, Singh VK, Rai V. Study of ABO and Rh(D) blood groups in Kshatriya (Rajput) of Jaunpur district, Uttar Pradesh. Anthropologist. 2009; 11(4): 303-304. ISSN 0972 0073 <https://www.tandfonline.com/doi/pdf/10.1080/09720073.2009.11891119>
61. Rai V, Patel RP, **Kumar P**. Study of ABO and Rh(D) blood groups in Scheduled Caste of Jaunpur district. Anthropologist. 2009; 11(2):151-152. ISSN 0972 0073. <https://www.tandfonline.com/doi/pdf/10.1080/09720073.2009.11891095>
62. **Kumar P**, Yadav M, Rai V. ABO and Rh(D) blood groups among yadav of District Jaunpur. Pb. Univ. Res. J. (Sci.) 2008; 58:79-81. ISSN 0555-7631.

### **Special Mention**

1. “Methylenetetrahydrofolate reductase gene C677T polymorphism and breast cancer risk: evidence for genetic susceptibility. MetaGene. 2015; 6: 72-84.” was **cited in Policy Document - Updated recommendations on folic acid by Scientific Advisory Committee on Nutrition (SACN) of UK** which recommended fortification of flour with folic acid in UK
2. “Rai V, Yadav U, Kumar P (January 2017). "Null association of maternal MTHFR A1298C polymorphism with Down syndrome pregnancy: An updated meta-analysis". *Egyptian Journal of Medical Human Genetics*. **18** (1):9–18. doi:10.1016/j.ejmhg.2016.04.003.” is **cited in Wikipedia**.

### **Books**

1. Recent Advances in Biotechnology. Eds. Rai V and Kumar P. Shree Publishers and Distributers New Delhi. ISBN: 978-81-8329-936-7. Volume 1.
2. Recent Advances in Biotechnology. Eds. Rai V and Kumar P. Shree Publishers and Distributers New Delhi. ISBN: 978-81-8329-936-7. Volume 2.
3. Recent Advances in Biotechnology. Eds. Rai V and Kumar P. Shree Publishers and Distributers New Delhi. ISBN: 978-81-8329-936-7. Volume 3.

### **Chapters in Books**

1. **Kumar P** and Rai V. Bhartiya Samaj aur kanya bhrun hatya. Bhartiya samajik paripekshya me naari Eds. Mourya NS, Srivastav J. 2023. University Publication. 978-93-92516-60-3.
2. **Kumar P**, Rai V. Therapeutic siRNA Delivery for Cancer Therapy Using Nanoparticles. Proceedings of the International Conference on Ultrasonics and Materials Science for Advanced Technology (ICUMSAT-2019). 2019; 234-238. ISBN 978-81-8487-703-8

3. Chaudhary A, Yadav U, **Kumar P**, Rai V. DRD2 Taq1 A Polymorphism in Eastern Uttar Pradesh Population. Proceedings of the International Conference on Ultrasonics and Materials Science for Advanced Technology (ICUMSAT-2019). 2019; 105-109. ISBN 978-81-8487-703-8
4. Singh V, Yadav U, Rai V, **Kumar P**. A Study of Association of ABO Blood Group types with Cancer Risk. Proceedings of the International Conference on Ultrasonics and Materials Science for Advanced Technology (ICUMSAT-2019). 2019; 401-405. ISBN 978-81-8487-703-8
5. Yadav U, **Kumar P**, Rai V. Efficacy and Safety of Nab-paclitaxel in Breast Cancer: A meta-Analysis. Proceedings of the International Conference on Ultrasonics and Materials Science for Advanced Technology (ICUMSAT-2019). 2019; 212-217. ISBN 978-81-8487-703-8
6. **Kumar P** and Rai V. Nanotechnology in detection of pathogenic microorganism. Recent Advances in Microbiology volume 3 Eds. N C Gautam, S P Tiwari, Rajesh Sharma, Rajeeva Gaur. Nova biomedical. 2018. ISBN: 978-1-62808-628-7
7. Rai V and **Kumar P**. Stem cells and their applications. Recent Advances in Biotechnology Volume 1. Eds. Rai V and Kumar P. Shree Publishers and Distributers, New Delhi. 2017; 13: 167-177. ISBN: 978-81-8329-936-7.
8. Rai V and **Kumar P**. Biotechnology and its different disciplines. Recent Advances in Biotechnology Volume 2. Eds. Rai V and Kumar P. Shree Publishers and Distributers, New Delhi. 2017; 2: 1-21. ISBN: 978-81-8329-936-7.
9. Rai V and **Kumar P**. RNA Interference mechanisms and applications. Recent Advances in Biotechnology. Volume 3. Eds. Rai V and Kumar P. Shree Publishers and Distributers, New Delhi. 2017; 1: 1-7. ISBN: 978-81-8329-936-7.
10. Yadav SK, Verma A, **Kumar P**, Rai V. Molecular screening of FRAXE syndrome in MR cases of eastern Uttar Pradesh. Proceedings of International Conference on Health, Environment and Industrial Biotechnology ICHEIB (Biosangam 2013). 2013. 195-7. ISBN-10:9-33-290137-6.
11. **Kumar P**. and Rai V. Stress, Human Health and Diseases. In: Stress and Health emerging trends and challenges. Ed. A. P. Singh. Pub: Alpha publishers, New Delhi. 2012; 2: 40-68. ISBN: 978-93-81-465-39-4
12. **Kumar P**. and Pathardikar A. Rural development through farming of medicinal plants. Rural Management contemporary issues and challenges. Ed: Purohit H C, Shree Publishers, New Delhi. 2006; 8: 103-115. ISBN:81-8329-126-0
13. **Kumar P**. and Rai V. Biotechnology and entrepreneurship. WTO and entrepreneurship development Ed: M. Pandey, Shree Publishers, New Delhi. 2005; 13: 160-172. ISBN:81-8329-070-1
14. Rai V. and **Kumar P**. Monoclonal antibodies. In: Recent Advances in Biotechnology. Eds N.C. Gautam and M.P. Singh. Pub: Shree Publishers, New Delhi. 2004; 11: 207-230. ISBN:81-88658-22-7

### Popular Articles

1. **Kumar P** and Rai V. Genetic Diseases in India: Diagnosis and Management. National Science Day (NSD-2019) Souvenir, VBS Purvanchal University, Jaunpur. 2019; 22-23.
2. Singh G, Rai V, **Kumar P**. Silver Nanoparticles Properties and Applications. National Science Day Souvenir, (NSD-2018) VBS Purvanchal University, Jaunpur. 2018; 32-33.
3. Singh P and **Kumar P**. RNA interference: The Future of Science. National Science Day Souvenir, (NSD-2018) VBS Purvanchal University, Jaunpur. 2018; 26.
4. Vishwakarma AK and **Kumar P**. Biofuel: The Next Generation Fuel. National Science Day Souvenir, (NSD-2018) VBS Purvanchal University, Jaunpur. 2018; 22.
5. Srivastava D, Rai V and **Kumar P**. Quantum Dots: Applications in Biological Sciences. National Science Day Souvenir (NSD-2018), VBS Purvanchal University, Jaunpur. 2018; 27-28.



6. Husain MM and **Kumar P.** Solid Waste Management with Biotechnology. National Science Day Souvenir (NSD-2018), VBS Purvanchal University, Jaunpur. 2018; 38-39.
7. **Kumar P.** National Science Day. Souvenir, National Science Day Celebration (NSD-2015), VBS Purvanchal University, Jaunpur. Feb 27-28, 2015; 38.
8. Rai V and **Kumar P:** Genetic analysis of ABO and Rh blood groups in Brahmin population of Uttar Pradesh, India. 2011. Nature Precedings : hdl:10101/npre.2011.5931.1 : Posted 30 Apr 2011
9. **Kumar P.** Universal Red Blood Cells. Souvenir, National Science Day Celebration (NSD-2011), VBS Purvanchal University, Jaunpur. Feb 28-Mar.1, 2011.

### **Participation and Scholarly Presentations in Conferences/Seminars/Symposia/Workshops**

1. **Kumar P,** Rai V. Red cell enzyme polymorphism in the Muslim population of eastern Uttar Pradesh. 108<sup>th</sup> Indian Science Congress, RTM University, Nagpur, Maharashtra, January 3-7, 2023
2. **Kumar P,** Fatma S, Yadav S, Yadav BK, Rai V. ABO and Rh Blood Groups Typing in Eastern UP population. International Conference on “Recent Advances in Research and Innovations in Life Sciences”, Mata Gujri Mahila Mahavidyalaya (Autonomous), Jabalpur in collaboration with Bhopal Chapter, The National Academy of Sciences, India (NASI) & The Society of Life Sciences (SLS), November 17-19, 2022.
3. **Kumar P,** Rai V. Catechol-O-Methyl Transferase Val158Met polymorphism and Ovary Cancer Risk. “33<sup>rd</sup> All India Congress of Zoology(AICZ)”and National Seminar on “Emerging Trends in Biological Sciences in the Light of Environmental Degradation and Life Sustainability ” organized by the Department of Zoology, Pandit S. N. Shukla University, Shahdol, Madhya Pradesh in collaboration with the Zoological Society of India, August 10-12, 2022.
4. **Kumar P,** Rai V COVID-19 Vaccination: Challenges and Opportunities. International Web Conference on COVID-19 Second Wave: Challenges for Sustainable Development (CCSD 2021) Jointly organized by: Asian Biological Research Foundation (ABRF), Prayagraj (U.P.), India, Samrat Prithviraj Chauhan Government College, Ajmer (Rajasthan), Govt. KRG Post Graduate (Autonomous) College, Gwalior (M.P.), Government Degree College Doda (J. & K.), Digambarrao Bindu ACS College, Bhokar, Nanded (M.S.), Darsh College of Education, Gohana, Sonapat (Haryana), Glocal Environment & Social Association (GESA), New Delhi, September 13, - 15, 2021.
5. Naaz A, **Kumar P,** Rai V. Covid-19 and Diabetes. GenoPro-2021; 8th International Conference on “Medical Health and Sustainable Development in Science and Technology” organized by Department of Biotechnology, Invertis University in association with IAAM, Sweden, October 8-9, 2021.
6. Kannaujia A, **Kumar P,** Rai V. Covid-19 Pandemic and Mental Stress. GenoPro-2021; 8<sup>th</sup> International Conference on “Medical Health and Sustainable Development in Science and Technology” organized by Department of Biotechnology, Invertis University in association with IAAM, Sweden, October 8-9, 2021.
7. Rai V, **Kumar P.** Host Genetic factors responsible for susceptibility and Severity of COVID-19. International conference “NAMASTE – 2020” (Novel Aspects in Medicines, Allied Sciences, and Technologies for new Developing Era – 2020), organized by DNA Labs- A centre for Applied Sciences, Dehradun, (UK) India, September 10-12, 2020.
8. **Kumar P,** Rai V. COVID-19 and Human Health. International Conference on COVID-19: Roadmap to future environment organized by Department of Botany, St. Johns College Agra. June 5, 2020.
9. **Kumar P,** Rai V. Catechol-O-methyltransferase Val158MET polymorphism and Lung Cancer Risk. International Conference on Recent Advances in Life Sciences for Betterment of Environment and Human Health (ICRALBEH-2019) & 8<sup>th</sup> Annual Session of Society of Life Sciences.

Organized by Govt. Holkar(Model, Autonomous) Science College, Indore (MP), December14-15, 2019.

10. **Kumar P**, Rai V. Therapeutic siRNA Delivery for Cancer Therapy Using Nanoparticles. Proceedings of the International Conference on Ultrasonics and Materials Science for Advanced Technology (ICUMSAT-2019). November, 16-18, 2019.
11. **Kumar P**, Rai V. Catechol-O-methyltransferase gene Val158Met polymorphism and obsessive compulsive disorder risk. 44<sup>th</sup> Annual Conference of the Indian Society of Human Genetics “Genomics for Health and Precision Medicine” organized by National Institute of Biomedical Genomics and University of Kalyani. January 30-February 01, 2019.
12. **Kumar P**, Rai V. Association between Catechol-O-methyltransferase Gene Val158Met Polymorphism and Prostate Cancer Risk. BIOSANGAM-2018, “Innovations and Translational Dimensions: Food health and Environmental Biotechnology” organized by Department of Biotechnology, MNNIT, Allahabad. March 9-11, 2018.
13. **Kumar P**. and Rai V. Evaluation of Catechol-O-methyltransferase Val158Met polymorphism as Risk Factor for Parkinson’s Disease. International Conference on Functional Biology and Molecular Interactions: Applications in Health and Agriculture. Organized by Department of Biochemistry, University of Lucknow, Lucknow. December 20-22, 2017.
14. **Kumar P**, Yadav U, Mishra OP, Rai V. Detection of Hemoglobin Variants in Uttar Pradesh: Analysis using PCR-RFLP. National symposium on Genetic Basis of Haematological Disorders with Special emphasis on Sickle Cell Disease. Organized by CGDMB, SCIC, Department of Biochemistry, Pt. JNM Medical College Raipur. July 25-26, 2016.
15. **Kumar P** and Rai V. Evaluation of MTHFR C677T polymorphism as risk factor for esophageal cancer.5<sup>th</sup> International Biochemistry and Molecular Biology Conference organized by Prince of Songhkla University, Thailand. May 26-27, 2016.
16. **Kumar P**, Yadav U, Rai V. Prevalence of COMT Val158Met polymorphism in Eastern UP Population. International Conference on Translational Biotechnology (BioSangam-2016), organized by Department of Biotechnology, MNNIT, Allahabad. February 4-6, 2016.
17. **Kumar P**, Yadav A, Yadav U, Yadav SK, Mishra OP, Rai V. MTR A2756G gene polymorphism analysis of Down syndrome patients of eastern UP. National Conference on Biotechnology and Human Welfare: New Vistas, organized by Department of Biotechnology, VBS Purvanchal University, Jaunpur. March 21-22, 2015.
18. **Kumar P**, Kumar P and Rai V. ABO blood group distribution in malaria patients of eastern Uttar Pradesh. National Conference on Biotechnology and Human Welfare: New Vistas, organized by Department of Biotechnology, VBS Purvanchal University, Jaunpur. March 21-22, 2015.
19. **Kumar P**. Privatization of higher education. National Seminar on Problems of Higher Education, Academic Management & Role of Teachers Association. February 16-17, 2015.
20. **Kumar P**, Yadav U, Yadav SK and Rai V. Association between MTHFR C677T polymorphism and Breast Cancer Risk. International Symposium on “Genomics in Health and Disease” & 40<sup>th</sup> Annual Conference of Indian Society of Human Genetics organized by National Institute of Immunohaematology (ICMR). January 28-30, 2015.
21. **Kumar P**. Association between ABO blood groups and Malaria. in National Seminar on Current Trends in Biological Sciences: Advances and Challenges organized by Janta College, Bakewar, Etawah. December 13-14, 2014.
22. **Kumar P**, Rai V. Screening of UP population for Glucose-6-phosphate dehydrogenase deficiency. National Seminar on Current Trends in Biological Sciences: Advances and Challenges organized by Janta College, Bakewar, Etawah. December 13-14, 2014.
23. **Kumar P** and Rai V. Prevalence of Glucose 6 Phosphate Dehydrogenase Deficiency in India: An updated meta-analysis. International conference on Biotechnology and Bioengineering ICBB-2014 at Birla Institute of Technology and Science, Pilani, Dubai Campus. October 29-30, 2014.

24. **Kumar P** and Rai V. Red Cell Enzyme Variation among the Scheduled Caste Population of Jaunpur district in International seminar on New Frontiers in Biotechnology: Functional Genomics & Proteomics. Organized by Invertis University, Bareilly, September 27-28, 2014.
25. **Kumar P**, Yadav SK and Rai V. Hypertension: Impact of blood sugar, body mass index and smoking. National Seminar on Emerging Trends in Applied Psychology. VBS Purvanchal University, Jaunpur. February, 11-12, 2014.
26. **Kumar P** and Rai V. Maternal methylenetetrahydrofolate reductase (MTHFR) A1298C polymorphism and susceptibility to Down syndrome: a meta-analysis. International Conference on Human Genetics and 39<sup>th</sup> Annual Meeting of Indian Society of Human Genetics. Ahmedabad. Organized by FRIGE's\_IHG and ILS- Ahmedabad University, January 22-25, 2014.
27. **Kumar P**. Management of Glucose-6-Phosphate Dehydrogenase Deficiency by counseling and preventive interventions. National Seminar on Advances in Management Practices organized by Faculty of Management Studies, VBS Purvanchal University, Jaunpur. September 19-20, 2013.
28. **Kumar P** and Rai V. 2013 Red Cell Enzymes Polymorphism in Yadav population of Uttar Pradesh. National Conference on Biolife: The Amalgamation of Multidisciplinary Life Sciences NCBL-2013. Organized by Bio-EGICORE (Deptt. of Life Sciences, EGICORE, Lucknow). March 9-10, 2013
29. **Kumar P** and Rai V. Red Cell Enzymes Polymorphism in Muslim Population of Uttar Pradesh. International Symposium on Developmental and Genetic Disorders & 38<sup>th</sup> Annual conference of the Indian Society of Human Genetics: Genomics and Community Health at BHU, Varanasi. December 9-11. 2012.
30. **Kumar P** and Rai V. Genetic Polymorphism of Red Cell Enzymes in Five Population of Eastern Uttar Pradesh. International Conference on Genes, Genetics & Genomics: Today and Tomorrow-Human Concerns and 37<sup>th</sup> Annual Conference of the Indian Society of Human Genetics at Panjab University, Chandigarh. March 3-5. 2012.
31. **Kumar P**, Kumar S, Yadav U, Yadav SK, Rai V. Glucose-6-Phosphate Dehydrogenase(G6PD) Deficiency Screening among the Muslim Population of Eastern Uttar Pradesh. National Conference on Frontiers in Biological Sciences at VBS Purvanchal University Jaunpur. December 4-5, 2011.
32. Rai V and **Kumar P**. 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.
33. Yadav U., **Kumar P**., Gupta S. and Rai V. Screening of MTRR A66G Polymorphism in Eastern U P Population. National Seminar on Biotechnology & Health: Prospects & Perspective in 21<sup>st</sup> Century at ITM, Universe, Gwalior. March 19-20. 2010.
34. **Kumar P**., Jaiswal R. K., Yadav U, and Rai V. Screening of Glucose 6 Phosphate Dehydrogenase Deficiency in Eastern U. P. International Symposium on Role of genomics in Clinical Practice & 3<sup>5th</sup> Annual Conference of the Indian Society of Human Genetics(ISHG 2010) at SGPGI Lucknow, India, March 6-8, 2010.
35. **Kumar P**. International Conference on Emerging Trends in Biotechnology(ETBT-2009) & 6<sup>th</sup> Annual Convention of the Biotech Research Society, India(BRSI), Banaras Hindu University, Varanasi. December 4-6, 2009.
36. **Kumar P**. Indian Women Scientists in the new millennium. Seminar on Women Leadership and Global Challenges. Organized by Department of HRD, Faculty of Management Studies, VBS Purvanchal University, Jaunpur. September 26-27, 2006
37. **Kumar P**. Role of science communication in genetic disorder awareness. 5<sup>th</sup> "National Science Communication Congress"(NSCC-2005), Varanasi(U.P.), December 12-16, 2005.
38. **Kumar P**. and Pathardikar, A. Rural development through farming of medicinal plants. National Seminar on "Rural Marketing: Issues and Challenges in WTO Era", at V B S Purvanchal University Jaunpur, September 23-24, 2005.

39. **Kumar P.** Mushroom Cultivation in Rural development. NGO Conference and National Seminar on “Rural development”, at V B S Purvanchal University Jaunpur, December 23-24, 2004.
40. Rai V and **Kumar P.** Schizophrenia: The mystery and mechanism. National Seminar on New Directions in Applied Psychology. VBS Purvanchal University, Jaunpur. March 8-9, 2003.

### **Seminars/Conferences/ Webinars attended (other than mentioned above)**

1. WCBNP-2020, Webinar on Chemistry and Biology of Natural Products held during July 24-25, 2020 at CSIR- NEIST, Jorhat, Assam, India.
2. Webinar in the series of Advances in Biotechnology for Health, Food and Nutrition to Encounter Covid-19, attended and learnt about Food and Nutrition, Immunomodulation to fight COVID-19, pathogenesis of SARS-CoV-2, Molecular Diagnostics and Immunodiagnosics for COVID-19 and Vaccine Designing to encounter the COVID-19 Disease. Organized by AKS University Satna, May 22-23, 2020.
3. International Webinar on “COVID-19: Changing Research Scenario” organized by IQAC and Department of Science, Swantanrata Sangram Senani Vishram Singh Government PG College, Chunar, Mirzapur, May 15, 2020.
4. International Webinar on “Post COVID-19 World and the Pivotal Role of Science and Technology” in outbreak of COVID-19 pandemic: Challenges and the Road Ahead International webinar series organized by Faculty of Science and IQAC, Government Raza PG College Rampur, May 17, 2020.
5. International Web Conference on “Indian intellectual and cultural traditions in present context” jointly organized by Department of Sanskrit and Botany, SGN Govt. PG College Muhammadabad Gohna, Mau, May 16-17, 2020.
6. Seminar on “Role of CST, UP in Promotion of Science and Technology & Facilitation of IPR Protection”. 08-09 December, 2016 organized by Faculty of Science, VBS Purvanchal University, Jaunpur. Sponsored by CST, UP.
7. Symposium on “Population Genetics and Chromatin Dynamics”, 22-23, January, 2012, Cytogenetics Section department of zoology, BHU, Varanasi.
8. National conference on “Metabolomics, Transcriptomics and Proteomics” at SGPGIMS Lucknow organized by BCS-In Silico Biology, January 29-30, 2011.
9. International Conference on “Emerging Trends in Biotechnology (ETBT-2009)” & 6<sup>th</sup> Annual Convention of the Biotech Research Society, India (BRSI)” at BHU, Varanasi, December 4 to 6, 2009.
10. Sensitization workshop on “Biosafety issues related to practisizing agricultural biotechnology”, G. B. Pant University of Agriculture and Technology. Pantnagar, Uttarakhand, Nov. 3-4, 2008.
11. National Seminar on “Media, Technology and Rural Development”, at V B S Purvanchal University Jaunpur, October 23-24, 2005
12. “Workshop on Patent Awareness”, at V. B. S. Purvanchal University, Jaunpur, March 31, 2004.
13. National Conference on “Wastelands management and Conservation of Natural Resource Including Biomass”, at V B S Purvanchal University Jaunpur. March 26-27, 2001.

### **Invited Lecture in Conferences/Seminars/Workshops**

1. “Genetic Polymorphisms and its effects” in the National Workshop on “Genetic Polymorphisms and its effects” organized by Guru Nanak College, Chennai 16.02.2023.
2. “Nanobiotechnology” The Future of Human Health Care. 5 Days National Online Workshop "Life Science Interface: The Key To Sustainability". Jointly organized by Guru Nanak College, Chennai and VBS Purvanchal University, Jaunpur 29.06.2022.

3. "Communication skills and Universal Human Values" in the Workshop on Life skills organized by Research and Development cell, Office of the international affairs and Internal Quality Assurance cell, VBS Purvanchal University, Jaunpur from 25 to 29-10-2021 and 15 to 22 -11-2021.
4. "Professional skills and Leadership and Management Skills" in the Workshop on Life skills organized by Research and Development cell, Office of the international affairs and Internal Quality Assurance cell, VBS Purvanchal University, Jaunpur from 23-11-2021 to 02-12-2021.
5. "Estimation of Protein by Lowry's Method" at Department of Biotechnology, Kutir Post Graduate College Chakkey, Jaunpur, UP. December 13, 2017.
6. "From Sequence to function: in the era of genomics". National workshop on "Genome to Drug: *in-silico* analysis" organized by Bioinformatics center (of ICMR), Department of Biochemistry, PJNM Medical college, Raipur (C. G.), 25-31 January, 2016.
7. Nanobiotechnology: Current status and potential applications. Symposia on Nanobiotechnology. Organized by VBS Purvanchal University, Jaunpur. November 24, 2014.
8. "Climate Change and Human Health: Malaria and Glucose-6-Phosphate Dehydrogenase deficiency". National Conference on "Impact of Global Warming and Climate Change on Diversity: The Challenge of Conservation of Flora and Fauna" Feb 21-22, 2012. RHSPG College Sigramau, Jaunpur.
9. "Bioinformatics: *in-silico* Biology", National seminar on "Recent Trends in Biosciences" at Department of Biochemistry, RML Awadh University, Faizabad, December 16, 2006.
10. "Monoclonal Antibodies Production and Commercial Applications" entrepreneurship skill development programme for Biotechnology, organized by MSME Development Institute (Ministry of Micro Small and Medium Enterprises, Govt. of India) March 28, 2008.
11. "Applications and Limitations of Micro propagation" at entrepreneurship skill development programme for biotechnology organized by MSME Development Institute (Ministry of Micro Small and Medium Enterprises, Govt. of India). March 28, 2008.
12. "Introduction to Laboratory Facilities & General Guidelines, laboratory ethics", in Hands-on Training in Cell and Molecular biology Techniques for College Teachers, V B S Purvanchal University, Jaunpur, December 21, 2009
13. "Protein Separation by SDS-PAGE", Hands-on Training in Cell and Molecular biology Techniques for College Teachers organized by Department of biotechnology, V B S Purvanchal University, Jaunpur, December 28, 2009

### **Details of Special Lectures Delivered**

1. "Personality Development" in 10 Days(30 Hours) Workshop on Life skills organized by Central Training and Placement Cell, VBS Purvanchal University, Jaunpur from 03-05-2023 to 12-05-2023.
2. "How to change Habit" in 10 Days(30 Hours) Workshop on Life skills organized by Central Training and Placement Cell, VBS Purvanchal University, Jaunpur from 03-05-2023 to 12-05-2023.
3. "Verbal and Non-verbal Communication" Department of Biotechnology, Faculty of Science, VBS Purvanchal University. March 06, 2019.
4. "How to face a job interview", Department of Biotechnology, Applied Biochemistry, Applied Microbiology and Environmental Sciences, Faculty of Science, VBS Purvanchal University. February 20, 2019.
5. "Nanobiotechnology", Department of Biotechnology, Applied Biochemistry, Applied Microbiology and Environmental Sciences. V B S Purvanchal University, Jaunpur, October 19, 2012.
6. "Career in Biotechnology" for Science Graduate students, RSKDPG College Jaunpur, 2012.
7. "Emergence and pandemic potential of swine-origin H1N1 influenza virus" Gabriele Neumann, Takeshi Noda & Yoshihiro Kawaoka. Nature: 2009, 459; 931-939. Journal Club, Department of Biotechnology, V B S Purvanchal University, Jaunpur, April, 30, 2010.
8. "Bioinformatics" for B. tech Biotechnology Students Rajendra Agricultural University, PUSA, Samastipur, Bihar, October 9, 2010.

9. "Fundamentals of Bioinformatics" for B. tech Biotechnology Students Rajendra Agricultural University, PUSA, Samastipur, Bihar, October 9, 2009
10. "Nanobiotechnology", Rajendra Agricultural University, PUSA, Samastipur, Bihar, October 10, 2009
11. "Towards universal red blood cells", Geoff Daniels & Stephen G Withers, Nature Biotechnology: 2007: 25; 427-428. Journal Club, Department of biotechnology, V B S Purvanchal University, Jaunpur, March, 2009.
12. "Fundamentals of Nano-biotechnology", Department of Biotechnology, Applied Biochemistry, Applied Microbiology and Environmental Sciences. V B S Purvanchal University, Jaunpur, December 19, 2007.
13. "Biotechnology and its Applications", Department of Mass Communication and Journalism, V B S Purvanchal University, Jaunpur, 2000-2006.
14. "Basics of immunology" and "Monoclonal Antibodies", S M M Town P G College, Ballia. (U P). 1-3 March 2005.
15. "Biophysics and Instrumentation", S M M Town P G College, Ballia. (U P) December 21, 2003.
16. Counseling Workshops/Lectures, for the promotion of Career in Biotechnology and Life Sciences for under graduate students. 2000-onwards.

### **Teaching Experience**

1. Twenty Three Years (M. Sc. Program)
2. Nine Years (Ph. D. Program)
3. Four Years (B. Sc. Program)

### **Refresher Courses/ Orientation Programmes /Summer Schools/Workshops attended**

1. Seven Days Refresher Course on National Education Policy (NEP-2020), (Higher education Department, Uttar Pradesh Government Letter No.464/Sattar-3-2021-08(35)/2020, Dated 10 February, 2021 order). Organized by VBS Purvanchal University Jaunpur, from 08-03-2021 to 14-03-2021.
2. Successfully completed ICMR-NIE "Basic Course in Biomedical Research" with a consolidated score of 70%, Roll No. NPTEL20GE33S42480116, MAR-JUN 2020, Swayam, NPTEL.
3. Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Computer Science & Biology " from 2020-10-19 to 2020-10-23 at Velammal Institute of Technology
4. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "Stress-management" from 2020-11-2 to 2020-11-6 at Maulana Azad National Urdu University Polytechnic Hyderabad.
5. E-Refresher Course on 21<sup>st</sup> Century: The Era of Biotechnology-To innovate by Advanced Biotechnology Learning during 3<sup>rd</sup> September -28<sup>th</sup> October, 2020, Organized by Department of Biotechnology, AKS University, Satna(MP).
6. Science Academies Online Lecture Workshop on Frontiers in Science & Engineering - Opportunities for Graduates. Organized by Science Foundation and MHRD-II-C-DDUC Chapter, Deen Dayal Upadhyay College, University of Delhi, New Delhi (under the aegis of DBT Star college program), September 14-19, 2020(Certificate no.2020/HRDCIICDDUC/Sc.Acad. Workshop/Sept.14-19/207)
7. One Week Faculty Development Programme on "Research Paper Writing and Online Academic Presentation organized by Zoology and Biotechnology Department and Internal Quality Assurance Cell(IQAC) in association with The National Academy of Sciences, India Bhopal Chapter, August 17-23, 2020
8. FDP on 'Evolution from offline to online teaching' organized by Satish Pradhan Dnyanasadhana college, Thane in association with Department of Information Technology, University of Mumbai

- Yashwantaon Chavan Maharashtra Open University, Mumbai Regional Centre and Microsoft, from May 30- June 3, 2020.
9. Online international Faculty Development Program on topic “Emerging Trends in Teaching Technology” organized by Department of Education in association with Council for Teacher Education Foundation, Nagpur and GHG Khalsa College of Education, Gurusar Sadhar, Ludhiana, May 16-20, 2020.
  10. Training Programme on Academic Leadership, organized by VBS Purvanchal University, Jaunpur and Centre of Academic Leadership and Education Management, Aligarh Muslim University, Aligarh, Under the Scheme of Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNTT), MHRD, Govt. of India, from April 23 to 29, 2019.
  11. Training Programme on Academic Leadership, organized by VBS Purvanchal University, Jaunpur and Centre of Academic Leadership and Education Management, Aligarh Muslim University, Aligarh, Under the Scheme of Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNTT), MHRD, Govt. of India, from March 26 to 29, 2019.
  12. Training Programme on Academic Leadership, organized by VBS Purvanchal University, Jaunpur and Centre of Academic Leadership and Education Management, Aligarh Muslim University, Aligarh, Under the Scheme of Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNTT), MHRD, Govt. of India. From January 31 to February, 03, 2018.
  13. Refresher Course in Nanoscience and Nanotechnology sponsored by UGC, organized by UGC-HRDC, North-Eastern Hill University, Shillong-793022, from November 13, 2017 to December 3, 2017.
  14. Hands-on Workshop on Molecular Diagnostics. Organized by CGDMB, SCIC, Department of Biochemistry, Pt. JNM Medical College Raipur. July 26-Aug 1, 2016.
  15. TEQIP-II Sponsored ISTE Approved One Week FDP on Advancements in Water Conservation and Management. Organized by Government College of Engineering, Amravati, Maharashtra from March 14-March 18, 2016.
  16. One week workshop on numerical computation using MATLAB. Organized by Department of Mathematics and Computer Science and Engineering, Faculty of Engineering and Technology, VBS Purvanchal University, Jaunpur-222003(UP) from November 26-30, 2015.
  17. Workshop on clinical proteomics, organized by Institute of Bioinformatics. Bangalore from July29-August 01, 2013.
  18. 17<sup>th</sup> DBT sponsored Training Course on Bioinformatics; A practical approach” conducted by Bioinformatics Center North- Eastern Hill University, Shillong April 19-24, 2010.
  19. Refresher Course (3-weeks) in Environmental awareness (RC-209, 2009) from13-07-2009 to 01-08-2009 Sponsored by UGC (Organized by Academic Staff College), Himachal Pradesh University, Shimla. HP.
  20. First Winter School on “Nanotechnology in Advanced Drug Delivery” sponsored by DST at National Institute of Pharmaceutical education and Research (NIPER) Chandigarh, 2-6 Dec. 2007.
  21. Refresher Course (3-weeks) on Bioinformatics and Biotechnology from 1, Nov. to 21 Nov. 2006 Sponsored by UGC at Academic Staff College, Bharathiar University, Coimbatore, Tamil Nadu.
  22. 5<sup>th</sup> Hands on workshop on “Prenatal and postnatal diagnosis of genetic disorders using molecular methods”, sponsored by DBT and AIIMS Held at Departments of Anatomy, Pediatrics and Hematology, AIIMS, New Delhi, November, 7-21, 2005.
  23. Four weeks Orientation Programme OP-70, Sponsored by UGC (Organized by Academic Staff College), Himachal Pradesh University, Shimla, and From 14 June to 10 July 2004.
  24. Worked as Teacher Summer Research Fellow (Indian Academy of Sciences fellowship for teachers) with Prof. Sudha Bhattacharya, School of Environmental Sciences, JNU, New Delhi, from 27 May to 20 July 2002.
  25. Two weeks Refresher Course “Winter School on Modern Biology” sponsored by Indian Academy of Sciences at Indian Institute of Chemical Biology (CSIR) Kolkata 6-17 Nov., 2000.

## **Administrative Experience/Post(s) & Responsibilities Held**

1. **Member**, Executive Council, VBS Purvanchal University Jaunpur, 2012-13, 2014-2015, 2018-19, 2020.
2. **Member**, Academic Council, VBS Purvanchal University Jaunpur, 2012-2015, 2021.
3. **Member**, Examination Committee, VBS Purvanchal University Jaunpur, 2013, 2015
4. **Member**, Library Committee, VBS Purvanchal University Jaunpur, 2019, 2020.
5. **Member**, IQAC, VBS Purvanchal University, Jaunpur, 2016-2019
6. **Member**, RDC, Department of Biotechnology, VBS Purvanchal University, Jaunpur, 2015-2017, 2018-2019.
7. **Member**, RDC, Department of Microbiology, VBS Purvanchal University, Jaunpur, 2018-2019.
8. **Convenor**, BOS, Biotechnology, VBS Purvanchal University, Jaunpur, 2022-2024
9. **Member**, BOS, Biotechnology, VBS Purvanchal University, Jaunpur, 2015-2017, 2018-2019, 2019-2020.
10. **Member**, Sports Council, VBS Purvanchal University Jaunpur, 2013, 2015, 2020
11. **Coordinator**, Central Training and Placement Cell, VBS Purvanchal University Jaunpur, 2023.
12. **Coordinator**, Office for International Affairs, VBS Purvanchal University Jaunpur, 2021
13. **Proctor**, VBS Purvanchal University Campus 2013, 2013-2014 and 2014-2015.
14. **Convener**, Antiragging Cell, VBS Purvanchal University Campus, 2012-14.
15. **Secretary**, VBS Purvanchal University Campus Sports Committee, 2012-2019.
16. **Chairman**, House allotment committee, VBS Purvanchal University, Jaunpur, 2022-2023
17. **Member**, NAAC- SSR report preparation, DVV and SSS preparation, VBS Purvanchal University, Jaunpur. 2020
18. **Coordinator**, NAAC Criteria-3, Research Consultancy and Extension, VBS Purvanchal University, Jaunpur. 2021.
19. **Member**, Central Purchase Committee (CPC), VBS Purvanchal University, Jaunpur, 2015-2016.
20. **Member**, Nigrani Samiti, VBS Purvanchal University Jaunpur, 2015.
21. **Seminar Coordinator**, Department of Biotechnology, Faculty of Science, VBS Purvanchal University, Jaunpur, since 2000.
22. **Head in Charge**, Department of Applied Biochemistry, VBS Purvanchal University, Jaunpur, 03-02-2006 to 03-11-2008.
23. **Assistant Proctor**, VBS Purvanchal University, Jaunpur (2008-2009, 2010-2011 and 2011-2012).
24. **Coordinator**, SC/ST Scholarship, Faculty building, VBS Purvanchal University, Jaunpur, from 19-12-2007 to 2010
25. **Coordinator, Sports**, VBS Purvanchal University, Jaunpur campus, 2011-2012.
26. **Member**, Institutional Purchase Committee. VBS Purvanchal University, Jaunpur, 2005
27. **Member**, Departmental Purchase Committee, Department of Biotechnology, V B S Purvanchal University, Jaunpur, 2000-2006.
28. **Member**, Committee for organizing sports activities of the University.
29. **Member**, Media Prakost, VBS Purvanchal University, Jaunpur campus 2011-2012.

## **Events Organized**

1. Convener “Job Fair”-2023 organized by Central Training and Placement Cell, VBS Purvanchal University, Jaunpur, 28-07-2023
2. Convenor, 10 Days(30 Hours) Workshop on Life skills organized by Central Training and Placement Cell, VBS Purvanchal University, Jaunpur from 03-05-2021 to 12-05-2021.
3. Convenor, Dikhsotsav-2023, organized from 14.02.2023 to 21.02.2023.
4. Convenor, Rajya Sthapna diwas samaroh-2023 organized from 24.01.2023 to 27.01.2023.
5. Organizing Secretary, “Seminar on Zoonotic Diseases of Public Health Importance” organized by Research and Development Cell and Department of Biotechnology, VBS Purvanchal University, Jaunpur on 21-04-2022.



6. Organizing Secretary, 10 Days(30 Hours) Workshop on Life skills organized by Research and Development Cell, Office of the international affairs and Internal Quality Assurance cell, VBS Purvanchal University, Jaunpur from 25 to 29-10-2021 and 15 to 22 -11-2021.
7. Organizing Secretary, 10 Days(30 Hours) Workshop on Life skills organized by Research and Development Cell, Office of the international affairs and Internal Quality Assurance cell, VBS Purvanchal University, Jaunpur from 23-11-2021 to 02-12-2021.
8. “Alumni Connect” (Online Meeting of Alumni of VBS Purvanchal University, residing abroad), July 18, 2021 at 7:30 PM(IST) on Google Meet.
9. Co-organizing Secretary, National Conference on Biotechnology and Human Welfare: New Vistas, organized by Department of Biotechnology, VBS Purvanchal University, Jaunpur. March 21-22, 2015.
10. Organizing Secretary, Purvanchal Cricket League (PCL-2013, PCL-2014, PCL-2015), VBS Purvanchal University Campus, Jaunpur.
11. Organizing Secretary, Annual Sports Meet-2014, 2015, 2016, VBS Purvanchal University Campus, Jaunpur.

### **Participation in Various Examinations as**

1. Member, Flying Squad, VBS Purvanchal University, Campus Semester and Annual Examinations 2018-2022.
2. Invigilator, VBS Purvanchal University, Campus Semester and Annual Examinations 2000-2022
3. Observer, M. Ed. Entrance examination VBS Purvanchal University Jaunpur-2022
4. Observer, Purvanchal University Combined Research Entrance Test (PUCRET -2022).
5. Observer, Counseling, Combined Entrance Examination B. Ed -2015 and 2016 Counseling Centre: T D College, Jaunpur.
6. Observer, VBS Purvanchal University Annual Examinations-2014.
7. Observer, CPMT-2007, at Hindustan College of Science and Technology, Agra, 2007.
8. Observer, Combined U P B. Ed. Entrance Examination-2008
9. Centre Superintendent, “Arakshi evam samkaksh padon par seedi bharati” conducted by UP Police recruitment and promotion board Lucknow-2014.
10. Centre Superintendent, B. Pharm. Special Exam. V B S Purvanchal University, Jaunpur 2009.
11. Assistant Centre Superintendent, Campus Semester and Annual Examinations, 2012-2013.
12. Invigilation and counseling in Combined U P B. Ed. Entrance Examination-2007.
13. Invigilator, PUCAT, V B S Purvanchal University, Jaunpur, 2000-2019.
14. Invigilation and counseling in B.Ed. entrance examination of V B S Purvanchal University Jaunpur, 2000-2008.
15. Deputy Coordinator, Central evaluation, Annual Examinations, V B S Purvanchal University Jaunpur, 2008
16. Expert District Level, Jaunpur, INSPIRE, 2013.

### **Training**

1. Mentored 31 students from different universities across India in (CSIR/SRTP/2020/NEIST/M/065) CSIR-Summer Research Training Program (CSIR-SRTP) 2020 Online, June to August, CSIR-NEIST, Jorhat.
2. Mentored more than 50 students for M.Sc. Project Work/Dissertation since 2002.(Annexure-1)

### **Membership**

1. Life member of Indian Society of Human Genetics(L/1523/2010)
2. Life member of Biotech Research Society of India
3. Life Member of the Indian Science Congress Association (L-9038).
4. Life Member of Bioinformatics Institute of India.

5. Life Member of Indian Society for technical Education.
6. Life Member of Mushroom Society of India.
7. Academic Guide, Under the Academic Guide Scheme of ICFAI University.
8. Life Member, The Society of Life Sciences, Satna(MP)

### **Editor**

Frontiers in Physiology (<https://doi.org/10.3389/fphys.2022.808272>)

### **Reviewer**

1. Frontiers in Genetics: Sec. Nutrigenomics (<https://doi.org/10.3389/fgene.2021.568398>)
2. Frontiers in Genetics: Sec. Genetics of Common and Rare Diseases (<https://doi.org/10.3389/fgene.2021.690860>)
3. Frontiers in Psychiatry: Molecular Psychiatry(<https://doi.org/10.3389/fpsyt.2021.684556>)
4. Frontiers in Endocrinology: Sec. Cellular Endocrinology (<https://doi.org/10.3389/fendo.2021.639524>)
5. Frontiers in Cardiovascular Medicine: Cardiovascular Epidemiology and Prevention. (<https://doi.org/10.3389/fcvm.2021.638322>)
6. Bioinfo Publications(Membership Id: A2E7024768)
7. Journal of Pharmaceutical Research International
8. International Blood Research and Reviews.

<https://orcid.org/0000-0002-0695-1996>

<https://publons.com/researcher/3057255/pradeep-kumar/>

<https://scholar.google.com/citations?user=0VaDtyMAAAAJ&hl=en>

<https://www.researchgate.net/profile/Pradeep-Kumar-258>

<https://www.scopus.com/authid/detail.uri?authorId=36012527200>

### **Papers/Course Teaching**

1. Biophysics
2. Recombinant DNA Technology
3. Immunology
4. Bioinformatics
5. Nanobiotechnology
6. Cell Biology and Genetics (B. Sc.)

### **Community and Extension Activities**

1. Organized (with Lions Club Jaunpur) one day health checkup camp, at VBS Purvanchal University, Jaunpur October 24, 2009.
2. Organized (with Lions Club Jaunpur) one day eye checkup camp, at VBS Purvanchal University, Jaunpur November 29, 2009.

### **Co-Curricular Activities**

1. Gold Medal in 100m (Teachers Race) in Annual Sports Meet- 2014, 2015, 2016, 2017, 2019, VBS Purvanchal University Campus, Jaunpur.
2. Bronze Medal in badminton (Individual and Doubles) Annual Sports Meet- 2019, VBS Purvanchal University Campus, Jaunpur.
3. Gold Medal in 100 m, 200m, 110m hurdles and 400m hurdle event(1996 -1997) at University AAM, University of Roorkee(now IIT Roorkee).
4. Represented University Athletic Team, University of Roorkee(now IIT Roorkee) from 1996-1999
5. First position in 100 m 200m and 400 m event and third position in High Jump(1994) Sports competition organized by KLDVA Degree College Roorkee

6. First position in 100 m 200m event and third position in High jump (1995) in Annual Sports competition organized by KLDAV Degree College Roorkee.
7. Played Kho-Kho up to Regional level, 1990(Kendriya Vidhyalaya Bhathinda Cantt.)
8. Cricket Captain Jawahar Bhawan 1996-97 University of Roorkee, Roorkee.
9. Captain of Athletics Team, Azad Bhawan(1999-2000)University of Roorkee, Roorkee.
10. Best Athlete of the athletic team, Ganga Bhawan(1995-1996)
11. Qualified USI UNESCO Test 1989 with 80% marks.
12. Qualified RRMI all Indian GK IRCP Test 1989 with First Division

**Place: Jaunpur**  
**Date: 28-07-2023**

**(Pradeep Kumar)**