Dr. Jitendra Kumar Tripathi

Chitrakoot House
in front of john tower
Akriti talkies road
Civil Lines Rewa
Phone M)+91-9827457842
EMail: jitendra.bt@gmail.com



Present Status- Working as a Faculty of Biotechnology at Center for Biotechnology Studies, A.P.S. University, Rewa.

Worked as Scientist in VRDL, Shyam Shah Medical College, Rewa on deputation basis for 2 months as per the order of Collector, Rewa (M.P.) dated on 28/04/2020.

Work involved

- Teaching Molecular Biology and Cell Biology to Masters and M. Phil. Students.
- Supervision of M. Phil. Students in Laboratory work (Dissertations).
- Organizing seminar and other curricular activities.
- In-charge, Molecular Biology Lab.
- Regular Experiments in Tissue Culture System.
- Standardization of Protocols and Genotyping of clinical samples.
- Analysis of Data and Preparation of Reports of ongoing projects running in lab.
- Preparation of New Research proposals for grants.

EDUCATIONAL QUALIFICATION

- **Ph.D. in Life Science**
  A.P.S. University, Rewa (M.P.) in Year 2017

- **Qualified MP SET lectureship**
  (Life Science) May 2019

- **Qualified ICAR NET lectureship**
  (Agriculture Biotechnology) November 2018

- **Master of Science Biotechnology**
  Year of passing: 2007 with First Division
  University: A. P. S. University, Rewa, M.P.
  Subject: Biotechnology

- **Bachelor of Science**
  Year of passing: 2005 with First Division
  University: A.P.S. University, Rewa, M.P.
  Subject: Chemistry, Zoology, Botany.

Research Experience

VRDL(Viral Research Diagnostic Lab, SSMC, Rewa) -**work experience of two months during COVID-19 as Scientist for Corona diagnosis of Viral infection**

Ph.D. in Life Sciences

Title of Research work "Study on association of polymorphisms of xenobiotic metabolizing genes with DNA damage and cancer susceptibility" from School of Environmental Biology (Life Sciences) A.P.S. University, Rewa.

Research work of the Ph.D.

DNA Damage and their role in cancer susceptibility is a key factors associated with Cancer. It has been established that some xenobiotic metabolizing genes like CYP1A1 could be used as marker gene to investigate Damage of DNA. Putting this factor in mind we worked at genetic polymorphism of CYP1A1, and found allele specific association of this genes with DNA Damage and lung cancer in central indian population with comet assay analysis with Olive TM values were found significant in urban area population, similarly GSTM1 and GSTT1 genetic polymorphism have investigated as their presence or absence in population because both are null genes. Their respective values of Olive TM for GSTMI & GSTT1 were found non significant in rural as well as in urban area population.

During this investigation anthropometric and biochemical estimations were also done and results suggest that PAH exposure and smoking could be strong environmental factor associated with DNA Damage & cancer susceptibility. Sample collection was done with a questionnaire based survey and PAH exposed and smokers were seems to be more susceptible for DNA Damage and Cancer susceptibility.

Techniques Used- DNA/RNA isolation, PCR Amplification (Gradient, Arms and Reverse Transcription PCR), RFLP, VNTR Analysis, PAGE, SDS-PAGE, Agarose Gel Electrophoresis, Biochemical estimation, HPLC, ELISA Auto analyzer based biochemical profiling, cloning and culture of microbes.

Master's Thesis- 6 month Dissertation on the topic "Micropropagation studies on grape rootstocks and check the clonal fiedility using RAPD markar" during February to July 2007 from **Division of Fruit and Horticultural Technology, IARI, Pusa, New Delhi**

Research work includes-

Tissure Culture Techniques - Micropropagation, Standardization of protocols and preparation of medium in optimum concentration, embryo rescue, moderation in glass house condition.

Biochemical Work- Assay of Phase 1,2 and Antioxidant enzymes, EMSA, SDS PAGE, Blotting, Cytological study by Microscopy.

Molecula1s r Work- Isolation of RNA, Reverse Transcription PCR, Agarose Gel Electrophoresis., Real Time PCR.

Awards and Fellowship

1. MP SET 2019 (Life Science) May 2019.
2. ICAR NET (Lecturership) November 2018
3. Got 1st Prize in poster presentation under research scholar category at National workshop organized by Govt. New Science College from 7th to 13th April, 2015.
4. Young Scientist (1st Prize) Award in oral presentation in National Conference at National Conference in M.S. Golwalkar Science College, Rewa 20-21 April 2012.

Training and hands on experience-

1. Worked for six month in Navya Biologicals Pvt. Ltd. Dharwad, Karnataka under the programme of Biotech industrial training programme (BITP) in 2007-08. (January to July 2008)
2. Attended 15 day hand on experience training of "Learning Bioinformatics tools and Programming Techniques for Teaching and Research Purpose" organized by DBT, Govt. of India, at school of Bioinformatics, A.P.S. University, Rewa 9-21 January 2012.
3. Attended 7 days hands on workshop on "Genomics and Bioinformatics" at Department of Biotechnology, Faculty of Life Sciences AKS University Satna, 28 Nov -4 Dec 2013.
4. Attended 7 days hands on workshop on "Science popularization & malnutrition and human health" organized by MPCST Bhopal at Department of botany and Biotechnology Govt. New Science College Rewa 07-13 April 2015.
5. Member, Organizing committee DST Inspire Camp for science students at A.P.S. University Rewa M.P. January 2017
6. Attended 2 days workshop on Real time PCR organized by Himedia laboratories Mumbai at A.P.S. University Rewa 17-18 March 2017.
7. Member, organizing committee 3 days worshop & competitive events at A.P.S. University Rewa, 26-28 March 2018.
8. Worked as Scientist in VRDL, S.S. Medical College for Covid-19 testing, Rewa as per order of collector Rewa dated-28/04/020

Known computer Packages-

MS-DOS , MS-OFFICE ,Internet Applications, Programing in C, Visual Basic, windows97/XP, foxpro, tally 5.4, bioinformatics applicable software.

Bioinformatics and Statistical Softwares-

Blast, Fasta, Primer 3 (Primer Designing), Statistical softwares (Prism 8.0, Graphpad, Sigmastat, SPSS)

Conference Attended

- Attended international conference entitled "novel stratigies towards targeted prevention and treatment of cancer." Held on School of life science JNU, in 2008

- Presented paper in national conference on Biodiversity and Biotechnology held on M.S. Golwalkar College Rewa (16-17th November 2010).

- Presented poster in International conference entitled "Mol-Med" held on Vellore Institute of Technology, Vellore, India (19-22 Feb 2012).

- Presented paper in National conference on Biodiversity and Biodiversity held on M.S. Golwalkar science college, Rewa (13-14 March 2012).

- Presented paper in National conference entitled "Role of New Technologies in conservation of environment held on school of Environmental Biology, A.P.S. University, Rewa. (23-24 March 2012).

- Presented paper in National conference on Biodiversity and Biodiversity held on M.S. Golwalkar science college, Rewa (20-21 April 2013).

- Presented paper in National conference on herbal medicine held on department of pharmaceutical science, AKS University Satna (11-12 August 2013).

- Attended National Symposium on Recent Trends in Microbial diversity Research on 28th November 2013 at AKS University Satna MP.

- Invited as judge in intercollegiate biotechnology events Rewa Zone, organized by MP Biotechnology Council on 24-25th of February 2014.

- Delivered talk as invited speaker in National conference entitled "Biotechnology for common man: Present and future prospects" at TATA College, Sidhi 29-30 March 2014.

Research Paper Published

1. Mrigendra Kumar Dwivedi, , Arvind Kumar Tripathi, Smriti Shukla, Salma Khan, Ugam Kumari Chauhan , Manoj Indurkar and **Jitendra Tripathi** (2011). "Genetic factors influencing stroke susceptibility". *Buletin of Bioscinces*: 2011, 2(1):26-32.
2. Smriti Shukla, Chauhan U.K**.**, Arvind Kumar Tripathi, Mrigendra Kumar Dwivedi and **Jitendra Kumar Tripathi** (2011). "Rheumatoid Arthritis: A Complex Gene Environmental Interaction" *IJGEB*: 2; 1: 9-21.
3. Arvind K. Tripathi ,Smriti Shukla, Mrigendra Kumar Dwivedi, **Jitendra Kumar Tripathi**, U. K. Chauhan, Samta Shukla, Manoj Indurkar and Sher Singh Parihar (2012). "Obesity and ENPP1 polymorphism and their association with pathophysiology diabetes type 2 in Central Indian population Journal of Diabetes and Endocrinology" pp. 19-26 DOI:10.5897/JDE12.018 (http://www.academicjournals.org/JDE)
4. Arvind kumar Tripathi, Smriti Shukla, Mrigendra Kumar Dwivedi, **Jitendra Kumar Tripathi,** U. K. Chauhan, Shivam Singh, Manoj Indurkar (2013). "Type 2 diabetes in a central Indian population: association with PPARG2 P121A allele but not ENPP1 K121Q." Advances in Genomics and Genetics 2013:3 1–9 (Dove Medical Press www.dovepress.com.)
5. Smriti Shukla, Arvind Kumar Tripathi, **Jitendra Kumar Tripathi,** Manoj Indurkar, Ugam Kumari Chauhan (2014). "Role of PTPN22 and VDR gene polymorphisms in susceptibility to rheumatoid arthritis: a study from central India" Advances in Genomics and Genetics 2014:4 79–85
6. Atul Bhalla, S. N, Shukla, R.M. Mishra, U.K. Chauhan, S.S. Parihar, **Jitendra Tripathi** and Anurag Dabas (2014). "Significance of microsatellite markers in FISH population genetics, Biochem". Cell. Arch. Vol. 14, No. 1, pp. 9-15. 2014
7. Shrikant Kol, Amit pandey, Bharat choudhary, Parihar, S. S., Tripathi, A. K., **Tripathi, J. K**., Shivum Singh, Samta Shukla and Chauhan, U. K (2014). "Identification of Microbes related to crude oil components consumtion and optimization of their growth parameters" INTERNATIONAL JOURNAL OF DEVELOPMENT RESEARCH VOL. 4, ISSUE, 1, P. 2437-241, NOVEMBER, 2014
8. Rishabh Dev Saket, Shrikant Kol, Arvind Kumar Tripathi, Sher Singh Parihar, **Jitendra Kumar Tipathi,** Ugam Kumari Chauhan (2015) "COMPLIMENT RECEPTOR TYPE – 1 (CD35) GENE POLYMORPHISM AND PLASMODIUM FALCIPERUM MALERIA" Int J Med Res Health Sci.2015;4(2):422-431

9. Arvind Kumar Tripathi, Smriti Shukla, **Jitendra Kumar Tripathi**, Rishabh Dev Saket, Srikant kol, Pranav Mishra, Ugam Kumari Chauhan, and Manoj Indurkar (2015). "Association of Genetic Polymorphism of Inflammatory Genes (IL-1β and IL-4) with Diabetes Type 2 Enliven: Journal of Genetics", Molecular and Cellular Biology | Volume 1 | Issue 1

10. Udita Singh, Arvind Kumar Tripathi, **Jitendra Kumar Tripathi**, Sher Singh Parihar, Rishabh Dev Saket, Ugam Kumari Chauhan, Pallavi Indurkar AND Manoj Indurkar (2015). "ABCA1 (C69T) GENE POLYMORPHISM AND SERUM TSH LEVEL IN SUSCEPTIBILITY TO DIABETES TYPE 2: A STUDY ON CENTRAL INDIAN POPULATION" Journal of International Research in Medical and Pharmaceutical Sciences 5(4): 152-160, 2015

11. Snehlata Pandey, Archana Pandey, U K Chauhan, Arvind Tripathi, **Jitendra Tripathi,** Sanjeev Dubey Rishabh Deo Saket (2015). "Recurrent Pregnancy loss and association of MTHFR, PAL1 and ACE gene polymorphism in women" Int J Clin and Biomed Res 2015; 1 (4): 50-55

12. Snehlata Pandey, Arvind Tripathi, **Jitendra Tripathi**, Sanjeev Dubey (2016). "CYP1A1 gene polymorphism among central Indian population and its genetic distribution" Int J Sci Rep. 2016 Jan; 2(1):13-17

13. Snehlata Pandey, Dr. Pallavi Indurkar, Arvind Tripathi, **Jitendra Thipathi,** Sanjeev Dubey (2016). "A RELATIVE STUDY TO FIND OUT THE RISK POPULATION IN VINDHYAN REGION BY CARCINOGEN ACTIVATING AND DEACTIVATING THE GSTM1 POLYMORPHISM" International Journal of Research – GRANTHAALAYAH Vol.4 (Iss.5): May, 2016 [133-138]

14 Udita Singh, Pallavi Indurkar, Arti Saxena, **Jitendra Tripathi**, Pranav Mishra, Narita Singh and Arvind K Tripathi (2017). "Anticarcinogenic effects of Soybean (Glycine max) in Mouse model system". Volume 3, Issue 02.

15. Udita Singh, **Jitendra Kumar Tripathi**, Arti Saxena, and Arvind Kumar Tripathi (2017) "Role of Environmental and life style factors in susceptibility to Diabetes type 2". Vindhya Bharati Volume 15, No 02.

16. Neha Singh, Arti Saxena, Udita Singh, **Jitendra K. Tripathi,** Vikash khare and Arvind K. Tripathi (2018). "Study on Association of genetic polymorphism of inflammatory gene IL-1β in susceptibility to Asthma: A case control study on population of central

indian region", International journal of pharmacy & life sciences., 9 (11 & 12): 5954-5958

17. Poorva shrivastava, Rashmi Arnold, Pallavi Mishra, **Jitendra K. Tripathi,** , Udita Singh and Arvind K. Tripathi (2018). "A Study of IL-18 polymorphism with Rheumatoid arthritis in central Indian population., International journal of current medical sciences", Vol. 8 issue, 6 (A) pp: 437-439 June 2018.

18 Parvatraj Pandey, **Jitendra Tripathi** (2019). "Polymorphic Study on Exon-19 (G>C) of ADAM33 gene and its association with Asthma in Vindhyan population (India)". International journal of Pharmacy & life Sciences, Vol. 10, issue 4, p6163-6175, 13p.

19 Satish Shukla, **Jitendra Tripathi** (2019)."Association study of SLC11A1 gene (3'UTR) gene polymorphism with pediatric tuberculosis in Madhya Pradesh (India)". International journal of Pharmacy & life Sciences, Vol. 10, issue 4, p6176-6188, 13p.

20. **Jitendra Kumar Tripathi**, Arvind Kumar Tripathi, Smriti Shukla, Pranava Mishra, Udita Singh, Ugam Kumari Chauhan, Devendra Nath Pandey (2020)." The role of Cytochrome P450 (CYP) gene associated with cancer susceptibility in native population of Vindyan region". International Journal of Research and Analytical Reviews November 2020, Volume 7, Issue 4, P- ISSN 2349-5138.

21 Pranava Mishra[1] , **Jitendra K. Tripathi[2]** , Arvind Tripathi[3], Ugam Kumari Chauhan[4] Prakash Tiwari[5] (20121). "Association of Life Style Factors In Type 2 Diabetes Mellitus Cases of Vindhyan Region". Population International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211 Volume 9, Issue 2, Feb -2021,

22. Pranava Mishraa **, Prakash Tiwari, [b] **Jitendra Kumar Tripathi,[a]** Arvind Tripathi,[a] Ugam Kumari Chauhan,[a] (2021)."Modulation of Superoxide dismutase and Catalase Enzyme activity in Type 2 Diabetes Mellitus cases of Vindhyan region Population". International Journal of Research and Analytical Reviews (IJRAR) February 2021, Volume 8, Issue 1, ISSN 2349-5138

23. Pragati Awasthi , Ajay Kumar Pathak , Akash Jaiswal , Jitendra Kumar Tripathi , **Arvind Kumar Tripathi** , Neelam Soni A association study on inflammatory cytokine polymorphism (TNF alpha) with pre term birth. IOSR Journal of Dental and Medical Sciences (IOSR-JDMS) Volume 21, Issue 1 Ser.4 (January. 2022).

24. Jyotsna Mishra[1], Rajshree Pandey[2], Smriti Shukla[3], Jitendra K. Tripathi[1], **Arvind K. Tripathi[1]**. Genetic Polymorphism of IL-1 β gene and it's association with Rheumatoid arthritis in Vindhyan Population of Madhya Pradesh, India International Journal of Life Sciences (ISSN: 2277-193x) CIF: 5.411; SJIF: 6.431 A Peer Reviewed Journal Vol. 11. No.3. 2022.

Chapter written in books					
1	In vitro crop improvement of Vitis species by advances in micropropagation	Recent advances in Biotechnology Vol 2	978-81-928063-1-0	First author	1.5
2.	Antioxidative and chemopreventive effects of Glycine max in DMBA induced Murine model system	Medicinal plants, Environment Biotechnology Ayush and Biomedicine for human health development	978-81-928063-8-9	Co author	1.5
3	Obesity and ENPP1 polymorphism and their association with pathophysiology of diabetes type 2 in Central Indian population	Recent advances in Biotechnology Vol 2	978-81-928063-1-0	First author	3.5

25. **Jitendra Kumar Tripathi**[1], Daya Shankar Parauha, Smriti Shukla[3], Arvind K. Tripathi[1]. Akanksha Verma and Utsav Tiwari. Distribution pattern of GSTM1and GSTT1 gene in vindhyan region population, International Journal of Current Advanced Research (ISSN: P 2319-6505) CIF: 6.614; A Peer Reviewed Journal Vol. 11. Issue 04. Page no. 634-637, 2022.

Paper published in proceeding of conference

- **Jitendra Kumar Tripathi**, Smriti Shukla, Mrigendra Kumar Dwivedi, Arvind Kumar Tripathi, U.K. Chauhan, Neeraj Charmakar, Rishabh Saket (2012) In vitro mass propagation of grape rootstocks through node micro-cutting, Published in Proceeding of .National Conference M.S. Golwalkar science college, Rewa 13-14 March 2012.
- **Jitendra Kumar Tripathi**, Smriti Shukla, Mrigendra Kumar Dwivedi, Arvind Kumar Tripathi, D. N. Pandey, Ugam Kumari Chauhan (2012) Chaemomodulatory profiling of *Camellia Sinensis* in murine model system Published in Proceeding of National Conference entitled "Role of New Technologies in conservation of environment held on school of Environmental Biology, A.P.S. University 23-24 March 2012, Rewa.

Paper published in proceeding of Book

- **Jitendra Kumar Tripathi**, Arvind Kumar Tripathi, Mrigendra Kumar Dwivedi, Smriti Shukla, Samta Shukla, Pranav Mishra, Nishant Joshi, Neha Singh, U.K. Chauhan, D. N. Pandey (2013) In vitro crop improvement of *Vitis* Sp. by advances in micropropagation, Published in Proceeding of National Conference New Science College, Rewa ISBN-978-81-928063-1-0, Year 2013.

PERSONAL PROFILE:

Name	:	Dr. Jitendra Kumar Tripathi
Date of Birth	:	07/12/1982
Fathers Name	:	Mr. T.N. Tripathi
Mother's name	:	Mrs. Parwati Tripathi
Gender	:	Male
Nationality	:	Indian.
Languages known	:	English, Hindi
Marital Status	:	Married.
Hobbies	:	Reading Books (scientific magazines), Traveling, listening Music

REFRENCES:

Prof. R.M. Mishra
Professor and Ex Vice-chancellor
A.P.S. University Rewa (M.P.)
Email: rmmishraeb@gmail.com

Dr. Sanjay Kumar Singh
Principal Scientist
Division of Fruit and Horticultural Technology
Indian Agricultural Research Institute, PUSA New Delhi
Email. - sanjaydr2@gmail.com

Prof. (Mrs.) U.K.Chauhan
Retired Professor
Department of Environmental Biology
Awadhesh Pratap Singh University Rewa M.P.
Email. Ukchauhan.dr@rediffmail.com

Dr. R.P. Joshi
Senior Scientisr, Division of Plant Breeding and Genetics
College of Agriculture,Rewa, M.P.
rpjoshi_rewa@rediffmail.com
91-9425110184

Place: Rewa

Date: (Dr. Jitendra Kumar Tripathi)