



## **Dr. Dharmendra Kumar Parihar**

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Department of Biotechnology  
University Teaching Department, Guru Ghasidas University  
Bilaspur- 495009

### **Biotechnologist with Successful Research and Teaching Experience of over Eleven years**

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**Field of Specialization:** Solid state fermentation, Microbial enzyme technology

#### **CAREER SUMMARY**

- \* Professional experience of eleven years in research and academics, with a reputed university.
- \* Research skills include complete project management in the field of Bacteriology research viz. isolation, handling of bacteria, cultivation, screening for metabolite production, testing of samples for bacterial load determination and Biochemistry research (Enzymology) e.g. Enzyme assay, Kinetics study, characterization and down stream processing of Enzymes from solid state fermentation.
- \* Experience of working with higher end instrumentation and managing the lab.
- \* Proficient in leading and developing manpower; successfully guided over twenty research projects of undergraduate and post-graduate students till date.

#### **WORK EXPERIENCE**

**Assistant Professor, Allahabad Agricultural Institute Deemed University, Allahabad**

June 2001 – May 2007.

**Assistant Professor, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur**

May 2007 – Present

#### **Responsibilities:**

- \* Teaching the subjects of Enzymology, Molecular Biology, Genetic Engineering, Immunology, and Industrial Microbiology to undergraduate and post-graduate students.
- \* Preparing the teaching material and conducting both theory and practical classes.
- \* Ensuring assimilation of the course objectives & assisting the students with their project work.
- \* Managing the laboratory and using/ maintaining a wide range of sophisticated instrumentation.

#### **EDUCATION**

- \* **PhD – Biotechnology**, Allahabad Agricultural Institute-Deemed University, Allahabad, 2006.  
Thesis on Studies on extracellular lipases from microorganisms and their Biotechnological potential
- \* **Master of Science – Biotechnology**, Guru Ghasidas University Allahabad, Bilaspur, Chhattisgarh, 2000  
Thesis on Study of phosphate solubilizing activity of endophytic bacteria isolate from sugarcane plant
- \* **Bachelor of Science**, Guru Ghasidas University Allahabad, Bilaspur, Chhattisgarh, 1998

#### **ADDITIONAL INFORMATION**

##### **Research papers published:**

- \* Kapil Lawrence, Reena Lawrence, Dharmendra Parihar, Rashmi Srivastava and Abhishek Charan, Antioxidant activity of Palmarosa Essential oil (*Cymbopogon martini*) grown in North Indian Plains, Asian Pacific Journal of Tropical Medicine 2012, S888-S891 (ISSN: 2221-1691; IF 0.371)
- \* Brajesh K. Dwivedi, S.P. Tiwari and D. K. Parihar; Biological surveillance of running water at Allahabad city Bioherald 2(1) (In press) (ISSN:2248-9061)
- \* Dharmendra K. Parihar; An optimization in production, purification and characterization of alkali stable lipase from *Pseudomonas sp.* LB-2. Advanced Biotech, 12(2), 32-37. In 2012. (ISSN:0973-0109)
- \* Dharmendra K. Parihar; Production of lipase utilizing Linseed oilcake as fermentation substrate. International Journal of Science, Environment and Technology, 1(3), 135 – 143, in 2012. (ISSN 2278-3687)
- \* Parihar, D.K. Blood Anticoagulant and Antibacterial activities of some plant extracts, IJBPAS, July, 1(6); 815-821. in 2012. (ISSN: 2277-4998)

- \* Dharmendra K. Parihar and P.W. Ramteke; Production of lipase Utilizing agro- biproducts as fermentation substrate, *Emerging science*, 4 (1); 24-27, in 2012. (ISSN 0976-4100)
- \* Parihar D K, Lawrence K, Sharma V, Lawrence R, Ramteke P W. Activity of catalase and peroxidase for assessment of river water quality. *Indian J Envir Prot* , 27(2), 142-4 in 2007. (ISSN 0253 - 7141)
- \* Dharmendra K. Parihar and P.W. Ramteke, Partial Purification and Characterization of Thermostable Alkaline Protease from *Staphylococcus aureus*. *Roumanian Biotechnological Letters* 10; 2025-2032, in 2005. (ISSN 1224 – 5984; IF 0.219)
- \* Dharmendra K. Parihar and P.W. Ramteke; Bacterial contamination of radish available in Allahabad market, *GEOBIOS* 32 (4); 257-262, in 2005. (ISSN 0251 -1223)
- \* Dharmendra K. Parihar, Archana Suman and P.W. Ramteke; Phosphate solubilizing activity of endophytic bacteria isolated from sugarcane plant. *Pro. Nat. Acad. Sci. India*. 73; B (III&IV) 3, in 2003. (ISSN: 0369-8211)
- \* Dharmendra K. Parihar and P.W. Ramteke; Characterization of phosphate solubilizing sugarcane endophytes, *The Allahabad Farmer*, 5; 93-99, in 2002. (ISSN: 0365-3854)

#### Research papers presented:

- \* Dharmendra K. Parihar. Production of lipase utilizing agro-byproducts as fermentation substrate. National Seminar on Techno-economical evaluation of fermented bio-based products: Vision 2020, Guru Ghasidas University, Bilaspur. C.G. India, Januau 28-29. 2008.
- \* Dharmendra K. Parihar, Kirtiman Srivastava and Yogesh Kumar Srivastava; Solid-state fermentation of starchy agro waste for  $\alpha$ -amylase production. National seminar on conservation of Biological Resource and sustainable development, Government New Science College Rewa M.P. India, 9 - 10 February 2007
- \* Ajay Kumar, Saurabh Kumar Srivastava, Ajay Kumar Singh and Dharmendra K. Parihar; Evaluation of alkaline protease production from different Agro-byproducts by using *Aspergillus oryzae* in solid-state fermentation. National seminar on Information and communication technology in life sciences, organized by computer society of India and Allahabad Agricultural institute-Deemed University, Allahabad, 17-18,Nov. 2006.
- \* Dharmendra K. Parihar and P.W. Ramteke; Evaluation of Agro byproducts for lipase production through solids state-fermentation. 76<sup>th</sup> Annual Session of the National Academy of Sciences, India, Organized by Indian Institute of Technology, Mumbai, 6-8 Oct. 2006.
- \* Dharmendra K. Parihar and P.W. Ramteke; Production of lipase by *Pseudomonas aeruginosa* using oil cake as fermentation substrate. 75th Annual Session of The National Academy of Sciences, India, organized by Pondicherry Central University, Pondicherry, 8-9 Dec 2005.
- \* Dharmendra K. Parihar; Plant Extract: Blood anticoagulant and antibacterial agent. 74<sup>th</sup> Annual session of The National Academy of Sciences, India. Organized by Birla Institute of Scientific Research, Jaipur and University of Rajasthan, Jaipur, 2-4 Dec. 2004.
- \* Jitendra Kumar, Dharmendra K. Parihar Reena Lawrence, Kapil Lawrence and P.W. Ramteke; Bioreactor mediated biodegradation of lindane in waste water. National Symposium on Ethanobiology, organized by Department of Botany, New Science College, Riwa. 6-7 Feb 2003.
- \* Dharmendra K. Parihar and P.W. Ramteke, Biodiversity conservation: Biotechnological perspectives. National Symposium on Ethanobiology, organized by Department of Botany, New Science College Riwa, 6-7 Feb 2003.
- \* Dharmendra K. Parihar and P.W. Ramteke; Isolation of lipolytic bacteria from oil contaminated site. The National symposium on 'Environmental Biotechnology and Biodiversity conservation, Vallabh, Vidyanagar, Gujarat, 31st Jan and 1st Feb, 2003.
- \* Dharmendra K. Parihar and P.W. Ramteke; Heavy metal tolerance among coliforms isolated from contaminated radish (*Raphanus sativus*). 72<sup>nd</sup> Annual session of The National Academy of Sciences, India. Organized by North Eastern Hill University, Shillong, 25-27 Oct. 2002.
- \* Dharmendra K. Parihar and P.W. Ramteke; Phosphate solubilizing activity of endophytic bacteria isolated from sugarcane plants. 71<sup>st</sup> annual session of The National Academy of Sciences, India. Organized by University of Pune, Pune, 5-7 Oct. 2001.
- \* Dharmendra K. Parihar, P.W. Ramteke and Kapil Lawrence; Microbial analysis of Radish available in market. International Conference of SAARC Countries on Biotechnology in Agriculture, Industry and environment, organized by Yasvantrao Chavan College of Sciences, Karad & Microbiologist Society of India, Karad, 28-30 Dec. 2001.

#### Training programs organized:

- \* Organized Two days national seminar on 'Techno-Economic Evaluation of Fermented Biobased Products: Vision 2020' 28 –29, January 2008 as Joint Secretary.
- \* One month's Entrepreneurship cum skill development program organized for M. Sc. final Semester student 2011

- \* One month's Entrepreneurship cum skill development program organized for M. Sc. final Semester student 2012
- \* Organized INSPIRE (Innovation in Science Pursuit for Inspired Research) for 10-12<sup>th</sup> class school students in 2012.

**Attended the following training programs:**

- \* Ten days program on 'Recent trends in characterization of plant Growth Promoting Rhizobacteria', by ICAR, New Delhi.
- \* One day seminar on Intellectual Property Right, by Ministry of Human Resource Development, Department of Secondary and Higher education, Govt. of India.
- \* Two days workshop in Intellectual Property Right at IIT Kanpur by MHRD, Govt of India.
- \* One-month industrial training on Biofertilizer production, at IFFCO Phulpur, Allahabad.
- \* One week training on 'Nanoscience and Nanotechnology' at National Institute of Technical Teachers training and Research, Chandigarh, sponsored by Ministry of Human Resource Development, Govt. of India.
- \* Four weeks Orientation Program at UGC-ASC Himanchal Pradesh University, Shimla, sponsored by UGC, New Delhi, India