

Personal Information:



Prof. Pradeep Verma
Professor, Department of Microbiology
Team Leader, Bioprocess and Bioenergy Laboratory
Central University of Rajasthan
Bandarsindri, Kishangarh
Ajmer- 305817, Rajasthan
+91-9414071791
vermaprad@yahoo.com; pradeepverma@curaj.ac.in
[Website: Bioprocess and Bioenergy Laboratory](#)



Educational Qualifications:

 Ph.D. (Microbiology)	Year 2002	Institution Sardar Patel University, Anand, Gujarat, India
 M.Sc. (Microbiology)	Year 1997	Institution MDSU, Ajmer, Rajasthan India
 B.Sc. (Biology)	Year 1994	Institution MDSU, Ajmer, Rajasthan, India

Current Area of Research:

Bioprocess and Bioenergy Laboratory : Team leader

The laboratory focuses on developing scientific processes and technologies to produce various economically important products such as enzymes, metabolites, and biofuels.

The Laboratory works on below mentioned areas:

1. Study of microbial diversity of various ecological niches.
2. Bioprocess development for production of biotechnologically important products.
3. Development of efficient biomass modification and biomass pretreatment system
4. Algal biofuel and microbe-assisted bioremediation

[See More](#)

Research Classification: Microbial Diversity, Enzymology, Fermentation technology, Bioremediation, Bioenergy (Lignocellulosic and Algal Biomass based), Integrated Biorefinery, Bioelectricity

Awards & Recognitions:

Awards & Recognitions:

IAWS Fellow- The International Academy of Wood Science (2024-25)
NABS Fellow-Basic Sciences, National Academy of Biological Sciences, India (2024)
International Travel support-DBT-CTEP, Govt. of India, to attend IBA-2024 conference, Hong Kong.
AFB Fellow-Association of Fungal Biologists, India (2024)
Japan Society for Promotion of Science (JSPS) Fellow, Japan (2022)
The Distinction Fellow of the Academy of Microbiological Sciences (AMSc), **AMI Fellow**, Association of Microbiologists of India, India (2022)

Awards & Recognitions:

Young Scientist Award, 3rd International Conference on Bioprocess for Sustainable Environment and Energy (2022)

Prof. P.C. Jain Memorial Award, Mycological Society of India (2022)

BRSI Fellow, Biotech Research Society of India (2021)

Prof. P.C. Jain Memorial Award, Mycological Society of India (2021)

MSI Fellow, Mycological Society of India (2020)

Japan Society for Promotion of Science (JSPS) Fellow, Japan (2009)

Ron Cockcroft Award by Swedish Society, Sweden (2005)

Visiting Scientist, UFZ centre for Environmental Research, Halle/Saale Germany, **German Science Foundation (DFG)**, Germany (2005)

UNESCO Fellow, ASCR, Prague, Czech Republic (2002)

International Visits: China, Japan, Germany

- ✚ **Invited Speaker, May 30-31, 2025**, Colloquium, "Wood Research in Changing Times" at the Department of Wood Biology and Wood Products of the University of Göttingen, Germany
- ✚ **Invited Speaker, December 1-6, 2024**, (XI IBA-IFIBiop, 2024), International Conference on Advanced Bioprocessing Technologies for Biomass Conversion: Sustainability and Bioresource Management
- ✚ **Bridge Fellow (Fellow ID: BR220603, Aug. 20th - Sept. 12th, 2022)**, Kyoto University, Japan Society for Promotion of Science (JSPS), Japan
- ✚ **Invited Speaker, (October 19-22, 2018)**, Xiamen Forum on Biomass Frontiers 2018, China, Xiamen University, International Academic Exchange Centre (Xiang'an Campus), Xiamen, China www.xfbf.org



Professional Memberships: Life Member



भारतीय जीवाणुतत्त्ववेत्त संगठन
Association of Microbiologists of India



Mycological Society of India

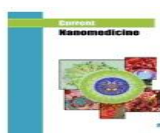
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THE BIOTECH
RESEARCH
SOCIETY, INDIA

- ✚ International Academy of Wood Sciences (IAWS) USA
- ✚ International Bioprocessing Association, [IBA-IFIBiop]
- ✚ Society for Plant Research, India, Vegetos
- ✚ Association of Fungal Biologists (AFB), India
- ✚ Mycological Society of India (MSI), India
- ✚ National Academy of Biological Sciences (NABS),
- ✚ India-Association of Microbiologists, (AMI), India
- ✚ Biotechnology Research Society of India (BRSI), India
- ✚ Indian JSPS Alumni Association, IJSPS, India
- ✚ Society of Biological Chemists (SBC), India
- ✚ German Science Foundation, Germany – (2004-2007)
- ✚ Czech Academy of Science (CAS), Czech Republic – (2002-2004)

Editorial Tasks:

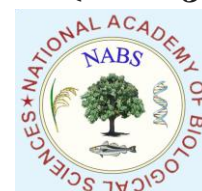


Biomass Conversion and Biorefinery
Processing of Biogenic Material for Energy and Chemistry



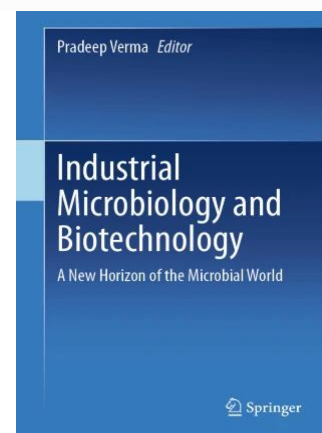
International Journal of
Environmental Research
and Public Health

- ✦ **Associate Editor**, Bioresource and Bioprocessing, Springer, Q1 Journal
- ✦ **Editor**, Vegtoes International Journal for Plant Research, Springer, Q2 Journal
- ✦ **Associate Editor**, Mycological Spectrum, AFB's Official Journal
- ✦ **Guest Editor** for Special Issue: Sustainable Bioprocess for Agricultural Waste Valorization in *Agriculture* (MDPI) <https://www.mdpi.com/si/137445> (IF: 3.408)
- ✦ **Guest Editor** for Special Issue: Agricultural Domain and Its Dual Role in Global Food Security, in *sustainability* (MDPI) <https://www.mdpi.com/si/145936> (IF: 3.889)
- ✦ **Editorial Board Member**, *Biotechnology and Genetic Engineering Reviews* (IF: 4.395)
- ✦ **Editorial Board Member**, Current Nanomedicine, Bentham Sciences
- ✦ **Guest Editor** for Special Issue: Advanced & Innovative approach of Biofiltration in Wastewater Treatment Plants for the sustainable environment (ABWTSE) in Bioengineered journal, Taylor and Francis (IF: 6.832)
- ✦ **Guest Editor** for "Biomolecule Engineering: Advances in Nano-Biomaterials Green Synthesis for Biomedical Applications" *Frontiers in Nanotechnology* (IF: 5.332)
- ✦ **Assistant Guest Editor** Special Issue: "Microalgae Biorefinery for Bioproducts" in International Journal of Environmental Research and Public Health (MDPI) (IF: 4.614)
- ✦ **Guest Editor** for "Advances in Biomolecule Engineering: Green Synthesis of Nano-Biomaterials for Biomedical Applications" *Frontiers in Nanotechnology* (IF: 5.332)
- ✦ **Guest Editor** in Thematic Issue "Hydrothermal Conversion of Biomass" in Biomass Conversion and Biorefinery Journal (Springer) (IF: 4.050)

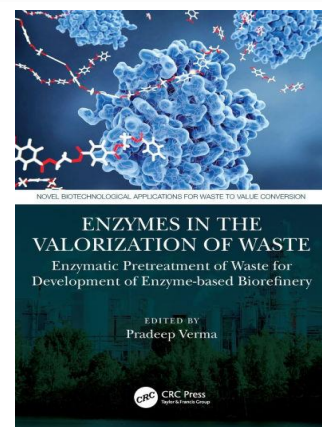
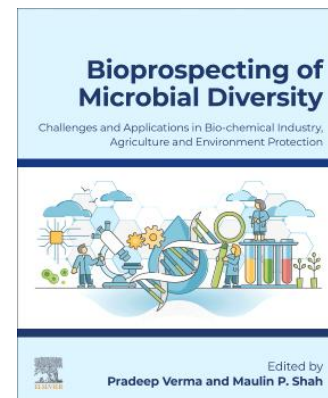


Books Edited: Published 36, Springer Elsevier, IAWA, DeGuyter

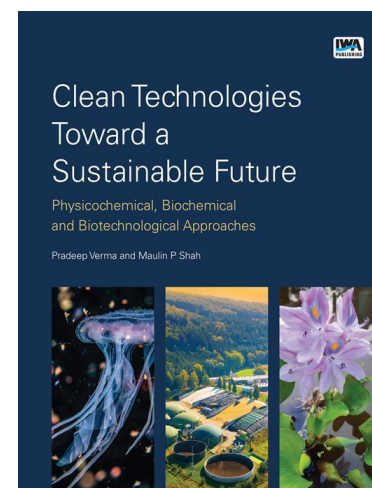
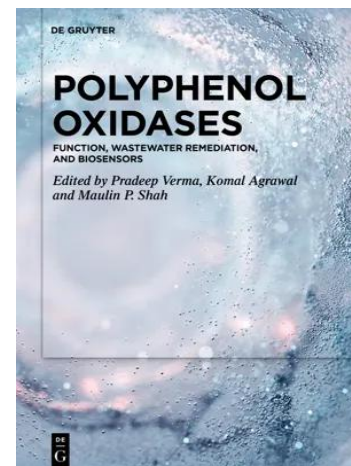
1. **Verma, P. (2026)** *Industrial Microbiology and Biotechnology: Trends in Microbial Biotechnology*, Print: 978-981-95-5380-8, Soft: 978-981-95-5378-5, Springer
2. **Verma, P. (2026)**. *Sustainable Practices in Biorefinery*, Print: 9819560705, Soft: 9789819560707, **Springer**
3. **Verma, P., Daaheech, K. P. (2026)**. *Phycoremediation: A Contemporary Technology for Nutrient Resources Recovery from Wastewater*, 978-981-95-5178-1, Soft: 978-981-95-5181-1, Springer
4. Chataurvedi, V., **Verma, P.**, Shah, P. M. (2026) *Biohydrogen Production, An Overview of Diverse Feedstock and Modern Technologies*, eBook ISBN9781003568612 <https://doi.org/10.1201/9781003568612>. Dec.2025, Elsevier
5. Kothari, R., Tyagai, V., **Verma, P*.,** *Algal Photobioreactors*, Springer Book: 89503609 In Press
6. Agrawal, K., **Verma, P.**, Shah, P. M. (2026). *Development in Wastewater Treatment Research and Processes Green Technologies and Innovative Future for Waste Management*, Paperback ISBN: 9780443342295, eBook ISBN: 9780443342301
7. Agrawal, K., and **Verma, P. (Online 2026)**. *Innovation & Future Trends in Bioprocess Technology, Vol. I*, Copyright © 2025, Professional Print ISBN: 978-1-966695-86-8, eISBN: 978-1-966695-87-5



8. Agrawal, K., and Verma, P. (Online 2026). Molecular and Technological Advancements in Bioprocess Technology, Vol. II, Copyright © 2025, Professional Print ISBN: 978-1-966695-88-2, eISBN: 978-1-966695-89-9
9. Joshi, S. R., Verma, P. (Editor), & Banerjee, S, 2025, Mineral Transformation and Bioremediation by Geo-Microbes, Springer
10. Kumar, V., Verma, P. (Editor), 2025, Biotechnological Advances in Industrial Waste Valorization, Springer
11. Verma, P. (Editor), 2025, Biotechnology for Environmental Sustainability, Springer, 2024, Springer, Print ISBN: 978-981-97-7223-0
12. Verma, P. (Editor), 2024, Industrial Microbiology and Biotechnology: A New Horizon of the Microbial. Springer, Print ISBN: 978-981-97-6269-9.
13. Shankar, J., Verma, P, Shah, M (Editors), 2024, Microbial approach for Sustainable Green Technologies, CRC, Editor ISBN 9781032526485
14. Bhatt, S.K., Kumar V., Li, F., and Verma, P. (Editors) 2024, Detection and Treatment of Emerging Contaminants in Wastewater, IWA Publishing.
15. Verma, P. (Editor), 2024, Industrial Microbiology and Biotechnology: An insight into current trends, Springer, Print ISBN: 800489257572.
16. Verma, P., and Kumar, B. (Editors), Sustainable Radiation Technologies in Waste-biomass Valorization - Greener Energy and High-Value Product Generation, Springer, Print ISBN: 89257688.
17. Verma, P., Shah, M (Editors), 2024, Clean Technologies Toward the Development of a Sustainable Environment and Future: Physicochemical, Biochemical, and Biotechnological approaches, IWA Publishing House Europe, ISBN: 9781789063776.
18. Mehmood, A., Verma, P., Shah, M and Betenbaugh, M. (Editors) 2024, Pharmaceutical and Nutraceutical Potential of Cyanobacteria, Springer, Print ISBN: 800489185226
19. Mehariya, S., and Verma, P., Algae Refinery: Up-and Down-Stream Process, 2024, CRC Press. Print ISBN: 9781032527888.
20. Verma, P., Agrawal, K. and Shah, M., Polyphenol Oxidases Function, Wastewater Remediation, and Biosensors, 2024, DE GRUYTER, Germany.
- 21 Kumar V., Bhatt, S.K., Verma, P., Kumar, S. (Editors). Recent Trends in Management and Utilization of Industrial Sludge, Springer, 2024.
- 22 Agrawal, K., and Verma, P., Biotechnological Advances in Biorefinery, Springer, Print ISBN: 978-981-97-5543-1 7.
- 23 Kumar V., Bhatt, S.K., Verma, P., Kumar, S. (Editors). Environment Engineering and Waste Management Recent Trends and Perspectives, 2024, Springer, Print ISBN: 978-3031584404.
- 24 Kumar, V., Kumar, S., Verma, P., Bhatt, S.K. (Editors). Microbial Nexus for Sustainable Wastewater Treatment: Resources, Efficiency and Reuse, CRC Press.
- 25 Verma, P. (Editor), Industrial Microbiology and Biotechnology, Emerging concepts in Microbial Technology, 2024, Springer, Print ISBN: 978-981-99-2815-6.



- 26 Verma P. (Editor), Enzymes in the Valorization of Waste Enzymatic Hydrolysis of Waste for Development of Value-added Products, 2023, CRC Press. Print ISBN: 978-1-032-03509-3.
- 27 Verma P. (Editor), Enzymes in the Valorization of Waste Enzymatic Pretreatment of Waste for Development of Enzyme-based Biorefinery, 2023, CRC Press. Print ISBN: 978-1-032-03515-4.
- 28 Verma P. (Editor) Enzymes in the Valorization of Waste Next-gen Technological Advances for Sustainable Development of Enzyme-based Biorefinery, 2023, CRC Press. Print ISBN: 978-1-032-03517-8.
- 29 Verma P. (Editor), Thermochemical and Catalytic Conversion Technologies for Future Biorefineries, Volume-1, 2022, Springer. As a Part of Book Series: Clean Energy Production Technologies". Print ISBN: 978-981-19-4311-9.
- 30 Verma P. (Editor) Thermochemical and Catalytic Conversion Technologies for Future Biorefineries, Volume-2, 2022, Springer. As a part of the Book Series: "Clean Energy Production Technologies". Print ISBN: 978-981-19-4315-7.
- 31 Verma, P. (Editor), Micro-algae: Next-generation Feedstock for Biorefineries: Cultivation and Refining Processes, Volume-1, 2022, Springer, As a part of the book series "Clean Energy Production Technologies", Print ISBN: 978-981-19-0792-0.
- 32 Verma, P. (Editor), Micro-algae: Next-generation Feedstock for Biorefineries, Contemporary Technologies and Future Outlook, Springer, as a Part of the Book series: "Clean Energy Production Technologies" Volume-2, 2022, Print Springer, ISBN: 978-981-19-0679-4.
- 33 Verma, P., and Shah, M (Editors) Bioprospecting of Microbial Diversity Challenges and Applications in Biochemical Industry, Agriculture and Environment Protection, 2021, Elsevier, Print ISBN: 978-0323909587.
- 34 Verma, P., and Shah, M (Editors). Phycology-Based Approaches for Wastewater Treatment and Resource Recovery, 2020 CRC Press, Print ISBN: 978-0367726447
- 35 Verma, P. (Editor) Industrial Microbiology and Biotechnology, 2021, Springer, Print ISBN: 978-9811652134.
- 36 P., (Editor) Biorefineries: A Step Towards Renewable and Clean Energy, 2021, Springer, as a Part of the Book series: Clean Energy Production Technologies. Print ISBN: 978-981-15-9592-9.



Academic and Research Experiences:

- | | |
|-------------------------|--|
| 2021- April 2024 | Dean , School of Sports Sciences, Central University of Rajasthan, Ajmer, India
<i>Former HOD, Department of Sports, Biosciences, Central University of Rajasthan, Ajmer</i> |
| 2014- Till Date | Professor , Department of Microbiology, Central University of Rajasthan, Ajmer, India
<i>Former Head: Department of Microbiology (April 2016-March 2019)</i>
<i>Former Dean, School of Life Sciences (June 2016-September 2019)</i> |
| 2013- 2014 | Associate Professor , Department of Microbiology, Central University of Rajasthan, Ajmer, Rajasthan, India |

2011- 2013	Associate Professor , Department of Biotechnology, Guru Ghasidas Central University Bilaspur, Chhattisgarh, India
2009- 2011	Reader & Head , Department of Microbiology, Assam Central University, Silchar, Assam, India
2007-2009	JSPS Invitation Fellow , RISH, Kyoto University, Japan
2007-2008	Research Scientist , Management cadre, Reliance Life Science, Mumbai
2004-2007	Postdoctoral Fellow , University of Gottingen, Germany,
2004-2005	Visiting Scientist , UFZ centre for environmental Research, Halle/Saale, Germany
2003-2004	Postdoctoral Fellow , Laboratory of Gene Expression, Charles University, Prague, Czech
2002-2003	UNESCO Fellow , Academy of Science of the Czech Republic, Prague, Czech Republic

Current Academic Responsibilities (Central University of Rajasthan):

- ✦ **Co-Coordinator**, Central Universities Entrance Test conducted by CURAJ, Ajmer
- ✦ **Member of the Executive Council**, Central University of Rajasthan,
- ✦ **School Board Member**, Department of Microbiology, School of Life Sciences, Central University of Rajasthan
- ✦ **Member of the Board of Studies**, School of Life Sciences, Central University of Rajasthan
- ✦ **External Expert** Nominee member on the Board of Studies for the Department of Pharmacy, Department of Education, and Department of Mathematics at Central University of Rajasthan
- ✦ **Coordinator**, DST-FIST, Department of Microbiology, Central University of Rajasthan (2016- till date)

Current Academic and Research Responsibilities (Outside CURAJ):

- ✦ **President, Associations of Microbiologists, India (AMI)** AMI-Ajmer Unit.
- ✦ External Expert, **Departmental Research Council**, Department of Microbiology, Central University of Haryana, India
- ✦ **External Evaluator** of proposals for the candidates “The European Science Foundation”, Luxembourg
- ✦ **Project proposal evaluator** for the projects to be submitted to King Fahd University of Petroleum & Minerals (KFUPM), Saudi Arabia
- ✦ **Evaluator** of the MEXT JSPS applications for master’s and PhD programmes
- ✦ External Examination Board member, Department of Microbiology, Central University of Haryana
- ✦ **Member of the Question paper setting committees** of prestigious national-level exams conducted by DBT and CURAJ
- ✦ **Member of the Screening cum selection committee** for the Department of Science and Technology, Government of Rajasthan, Jaipur
- ✦ **Member of the National Advisory Committee** for the International Conference on Biotechnology for Sustainable Agriculture, Environment and Health (BSAEH-2020)
- ✦ **Expert PhD thesis evaluator** for National and International institutes such as Cairo University, Egypt. North-Eastern Hill University (NEHU), BITS, Pilani, Shillong, CSIR-CSIO, Chandigarh, Jamia Hamdard, New Delhi, Assam University, Silchar, Sardar Patel University, North Maharashtra University, Pondicherry University, Berhampur University, Berhampur, Guru Ghasidas Vishwavidyalaya, Bilaspur, Gujrat Vidyapeeth, etc.
- ✦ **Coordinator** DBT-Builder Programme, Guru Ghasidas Vishwavidyalaya, Bilaspur

Past Academic/Professional Responsibilities:

- ✦ **Director I/C (Research and Development,** Central University of Rajasthan, (Since Dec. 23-Dec. 24)
- ✦ **Dean, School of Sport Science (Since Dec. 2021-April 2024)**
- ✦ **Director, Internal Quality Assurance Cell (IQAC) Central University of Rajasthan (July 2020-May 2024)**
- ✦ **Coordinator, National Assessment and Accreditation Council (NAAC), Central University of Rajasthan, University achieved an A++ grade.**
- ✦ **Chairman, Purchase Committee, Central University of Rajasthan (2021-2023)**
- ✦ **Former Chairman, Purchase Committee, Central University of Rajasthan (2017-2019, 2021-2023)**
- ✦ **Former Head, Department of Sports Biosciences, Central University of Rajasthan,** (Dec 2021-Sept 2022).
- ✦ **Former Head, Purchase Committee,** Central University of Rajasthan (April 2020- April 2023)
- ✦ **Former Dean,** School of Life Sciences, Central University of Rajasthan (June 2016- Aug 2019)
- ✦ **Former Head,** Department of Microbiology, School of Life Sciences, Central University of Rajasthan (April 2016- April 2019)
- ✦ **Former Chairman,** Sports, Central University of Rajasthan (July 2015- June 2019)
- ✦ **Chairman,** Syllabus Committee of M.Sc. Bioinformatics Programme
- ✦ **Member of the Academic Council** at Assam Central University
- ✦ **Member** of various selection bodies at Assam Central University
- ✦ **Research Coordinator** of the Department of Biotechnology, GGU, Bilaspur (C.G.)
- ✦ Guiding PhD scholars and M.Sc., and B. Sc Biotechnology Integrated Dissertation students
- ✦ **Founder Head,** Department of Microbiology, Assam University, Silchar (2009-11)
- ✦ Established the state-of-the-art Department of Microbiology, Assam University, Silchar (2009-11)
- ✦ ser
- ✦ **Member** of the detailed project report to establish the Central Medical College at Assam Central University
- ✦ Designed the Microbiology and Biotechnology laboratories at Assam Central University
- ✦ **Introduced** the Credits-Based Choice System (CBCS) as per UGC requirements
- ✦ **Collaboration** started with various International and National Universities
- ✦ Developed a concept of lignocellulosic Biorefinery using a biomimic system for second-generation biofuels and biochemicals from renewable resources
- ✦ Involved in biotechnological aspects of new method development and scaling up the process of industrial enzyme and fungal metabolites.
- ✦ German Chemical Company (BASF) and Reliance Life Science, Mumbai, for process development
- ✦ Played a pivotal role in the completion of the work on proof-of-concept studies at a large scale in the projects.

Professional Research experiences and Tasks completed:

- ✦ Developed a process for cost-effective second-generation biofuels production **RISH Japan, (Japanese patent, March 2009, WO/2010/013696 PCT/ JP2009/063398)**
- ✦ **US Patent 2011** US patent, 2011 US 2011/0263843 A1 **Commercialized)**
- ✦ Successfully developed an efficient process for biobutanol production at Reliance Life Science, **Mumbai (Filed Patent, December 2007, Process for the production of high yield of biobutanol, WO/2009/087680 PCT/IN2008/000864**

- ✦ In vitro and in vivo studies: Effect on the enzymatic machinery of fungal spp, Five international publications. Product available in the market from BASF (German Chemical Company) at University of Goettingen, **Germany**
- ✦ Single Strand Conformation Polymorphism (SSCP), Identifying bacterial communities work at UFZ centre for environmental Research, Halle/Saale, **Germany**
- ✦ Development of several bio-mimic systems, Academy of Science of the Czech Republic, Prague, **Czech Republic**, Five International papers

Completed projects: Ongoing and Completed Research

- ✦ Microalgae-Powered Biomanufacturing: A Carbon Capture Approach for Scalable Nutraceutical Aquafeed Production, **PI, DBT, Gov. of India**, Duration- **Dec., 2025-**, **76.45** Lakhs (In Progress)
- ✦ Modulating bio-photolytic pathways and integrating one- step multienzymatic pre-treatment of fermentative biomass in microalgal system for enhance hydrogen production (Reference no. BT/PR54202/BSA/33/198/2024 (CN 21088))" **PI, DBT, Gov. of India** - **Nov., 2025-**, **89.34 lakhs** (In Progress)
- ✦ Sustainable Production of Microalgal-derived Biostimulants to Enhance Crop Growth in Desert Regions of India: A Modern Agricultural Approach (BT/PR54180/NER/95/2206/2024) **PI, DBT, Gov. of India**, **61.95 Lakhs, (Recommended)**
- ✦ Exploring Fungal diversity from Selected area of Assam Using Biochemical and Molecular Approach for Industrially Important Bio-molecules, **PI, DBT, Gov. of India**, Duration- **Nov 2012-June 2016**, Cost-Rs. 82 Lakhs, **(Completed)**,
- ✦ An integrated approach for the development of microwave system for pretreatment of lignocellulosic biomass for cellulolytic enzymes and ethanol production. **PI, DBT, Gov. of India**, Duration- **May 2014-May 2018**, Cost-Rs. 69 Lakhs, **(Completed)**
- ✦ Exploring the Potential of Bioactive Molecules: An Ethnobiological Perspective for Cancer Therapeutics, **ANRF**, Two Cores and Sixty Three Lakhs Only (Submitted)

Research Guidance & Thesis Evaluations:

➤ Research Guidance:

- ✦ PhD 7 (Awarded), 5 (Ongoing)
- ✦ Post Doc 1 (completed), 2 (Ongoing)
- ✦ M.Sc. Dissertation 42 (Completed), 3 (Ongoing)
- ✦ B.Sc. Dissertation 11 (Completed)

➤ Thesis Evaluation

- ✦ 48 Thesis Evaluated
- ✦ 18 Viva Conducted (As External Examiner)
- ✦ 11 Viva Conducted (As Dean and Nominee by the University)

Post Doc Mentorship:

- ✦ **Dr Vineet Kumar National Postdoctoral Fellow (NPDF)** (2022-2024): Unraveling the shift in bacterial communities profile grown in sediments co-contaminated with chlorolignin waste of pulp-paper mill by metagenomics approach.

- ✦ **Dr Vineet Kumar DBT-RA Postdoctoral Fellow (DBT-RA), (2025-2027):** Treatment of sewage wastewater by *Canna indica*-based constructed wetland integrated with microbial fuel cell: detoxification, bioelectricity production, and microbial community analysis
- ✦ **Dr. Renju as Research Associate (RA), (2025-2028):** Modulating bio-photolytic pathways and integrating one- step multienzymatic pre-treatment of fermentative biomass in microalgal system for enhance hydrogen production (Reference no. BT/PR54202/BSA/33/198/2024 (CN 21088))

PhD Thesis Awarded and Topics:

- ✦ **Nisha Bhardwaj (PhD 2019):** “Production, Characterisation and Application of Xylanases from *Aspergillus oryzae* in Generating Ethanol”
- ✦ **Sanjeet Mehariya (PhD 2021):** “Micro-algae research for the production of high-quality value-added products” International PhD Co-Supervisor (University of Campania "Luigi Vanvitelli" Department of Engineering School of Polytechnics and of the Basic Sciences University of Campania "Luigi Vanvitelli", Italy)
- ✦ **Komal Agrawal (PhD 2021):** “Production, Characterization and Applications of Laccases from Fungal Strains of Rajasthan, India”
- ✦ **Bikash Kumar (PhD 2021):** “Development of Microwave Mediated Pretreatment and Enzymatic Conversion of Lignocellulosic Biomass to Ethanol”
- ✦ **Rahul Kumar Goswami (PhD 2024):** “Development of low-cost cultivation system for enhancement of microalgal biomass production”
- ✦ **Sugandha Aachhera (PhD 2024):** “Integrated approach of bioleaching and biosorption of metal values from mineral resources”
- ✦ **Shatakshi Tiwari (PhD 2024):** “Microbial ferrous oxidation and biosorption kinetics study with variable anions and their counter cations”

PhD Thesis in progress and Topics:

- ✦ **Lakshana G. Nair (PhD 2020):** Development of THF-Water Mediated Microwave Pretreatment System and Enzymatic Conversion of Lignocellulosic Biomass for BioChemicals and Applications
- ✦ **Akshay P. Dhanokar (PhD 2020):** Microbiome of the Plants Practiced as Indigenous or Folk Medicine: From Antibacterial/Antibiotic Potentiating/Antibiofilm activity to Antibiotic Resistance
- ✦ **K Siddaardha Duggirala (PhD 2020):** Microbiota of Functional Food Plants: From Antibacterial Resistance/Biofilm Breaking Role
- ✦ **Shivangi Mudaliar (PhD 2021):** Production, Characterization and Applications of L-Asparaginase from *Fusarium solani* 9504 of Rajasthan and its Biotechnological Applications
- ✦ **Udaypal (PhD 2022):** Development of Low-Cost cultivation system for Microalgal Biomolecules production and its Biotechnological Applications
- ✦ **Md. Ansar Alam (PhD 2025):** Production, Characterization, and Applications of Biomolecules from *Isolated* Fungal Species

Research outcomes:

Type	Parameters	All	2021-2025
Research Articles	No. of Research & Review Articles	127	77
	Cumulative Impact Factor	473.61	371.8
	Average Impact Factor	5.00	5.10
Book	No. of Books	36	30+6*
Book Chapters	No. of Book Chapters	75	66
Patents	National patents	01 +01*	01*
	International Patents	19	00

*Accepted and In Press

List of Research Publications in last five years (2021- till date): 79

- Goswami, R.K., Shekhawat, S.S., Rawat, I., **Verma, P.** and Bux, F., 2026. Bioplastics Derived from Microalgae: A New Perspective on Biorefinery Development, Challenges, Opportunities, and Sustainability Assessment for a Circular Bioeconomy Approach. **Journal of Environmental Chemical Engineering**, 14, 123575. **IF: 7.5**
- Mudaliar, S., Nair, L. G., Kumar, V., Chaturvedi, V., & **Verma, P***. (2026). Green bioprocessing of L-Asparaginase: optimization, purification, and characterization using novel *Fusarium solani* PVS1 for sustainability. **Archives of Microbiology**, 208(2), 124. **I.F. 3.0**.
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Citations	10422	8488
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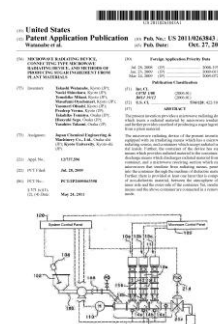
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2. Microwave irradiation device, linked microwave irradiation device, and method of manufacturing glycocomponent from plant material (**European patent, 2018/07/18, EP2323461B1**)
3. Procedimiento de alto rendimiento para la producción de biobutanol 23-11-2017 (**Spain 2017 ES2643605T3**)
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6. Microwave irradiation device, linked microwave, irradiation device, and method of manufacturing glycocomponent from plant material (**Republic of Korea, 14/03/2016, KR1020110073432**)
7. Method Of Producing Sugar Ingredient from Plant Material (**Japan Patent, 12/06/2015, JP2014024024850**).
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- ingredient from plant materials (**US patent, 2011 US 2011/0263843 A1**).
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 18. Microwave Radiating device, connecting type microwave radiating device, and methods of producing sugar ingredient from plant materials (**Canada Patent, 2010, CA2739056 A1**)
 19. Process for production and quantitation of high yield of biobutanol (**Canada Patent, 2010, CA 2710671 A1**)
 20. Method for producing sugar components from plant material (**Japan Patent, 2015, JP5757012B2**)
 21. Microwave irradiation apparatus and connected microwave irradiation apparatus (**Japan Patent, 2014, JP5433870B2**)



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65. Bhardwaj, N., & **Verma, P***. (2020). Extraction of Fungal Xylanase Using ATPS-PEG/Sulphate and Its Application in Hydrolysis of Agricultural Residues. In *Biotechnological Applications in Human Health* (pp. 95-105). Springer, Singapore.
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75. **Verma P***, Chaturvedi V. (2017) A Comparative Assessment of Autoclave and Microwave-Assisted Peroxometal Complex in Delignification of Wood Biomass for Enhanced Sugar Production. In: Pandey K., Ramakantha V., Chauhan S., Arun Kumar A. (eds) Wood is Good. Springer

Conference Proceedings:

1. Mai, C., **Verma, P.***, Xie, Y., Dyckmans, J., & Militz, H. (2009), Mode of action of DMDHEU treatment against wood decay by white and brown rot fungi. In England F., Hill, C.A.S. Militz, H. Segerholm, B.K. (Hg) **Proceedings of the IV European Conference on Wood Modifications (ECWM)**, Stockholm, Sweden 4552,
2. **Verma, P***, Mai, C., Krause, A., & Militz, H. (2005). Studies on the Resistance of DMDHEU-treated Wood against White-rot and Brown-rot fungi IRG/WP document 05-10566, Swedish Society.
3. Nerud F., Baldrian P., Gabriel J., **Verma, P*** Shah, V., Tomás Cajthaml, Ivana Eichlerová, Merhautova V., Trnka T., Stopka P. (2003) The use of radicals generating reactions for the degradation of pollutants. Seventh International Symposium, Orlando, Florida in Situ and on-Site Bioremediation ISBN 1-57477139-6.
4. Gabriel J., Nerud F., Baldrian P., **Verma, P.*** Tomás Cajthaml, Ivana Eichlerová, Ilko Stoytchev, Tomás Trnka, Martin Hrubý and Milan Benes., (2003) Degradation of Aromatic Compounds by radicals-generating systems, Seventh International Symposium, Orlando, Florida in Situ and on-Site Bioremediation, ISBN 1-57477-139-6, Published by Battelle Press, Columbus, Indexed
5. Nerud F., Baldrian P., Gabriel J., Shah V., **Verma, P***, (2002). Poster presented at the International Union of Microbiological Societies World Congresses entitled. "Involvement of Reactive Oxygen species in the Degradation of Synthetic Dyes" Xth International Congress of Bacteriology and Applied Microbiology (IUMS) Organized by Societies of Microbiology France, Paris, (B 643) page No 216, 27 July to 1 August.

Convenor, organizing, and chair in Conference

1. X International Conference on Sustainable Energy and Environmental Challenges (15-18 Dec. X SEEC 2025), IIT, Jodhpur, Sustainable Low-Cost Microalgal Cultivation System for Scale-Up and Integrated Municipal Wastewater Treatment and High-Value Biomass Production (**Plenary Talk, and chair**)
2. Advances in Biotechnology, Bioprocess, and Structural Biology”, by IIT, Roorkee, and BRSI, India, December 11 to 14, 2025, Breaking Biomass Recalcitrance: Microwave-Assisted Integrated Pretreatment Strategies for Efficient Bioconversion of Agro-industrial Wastes, (**Invited Talk, and chair**)
3. Biotechnology for Sustainable Development and Circular Economy (BSDCE-2025) 7-10 December, 2025, SIKSHA ‘O’ ANUSANDH, Bioprocess Optimization of High Lutein Production using Diverse Microalgal spp. and its Assessment of Purification, Characterization, and Antioxidant Potentials, (**Invited Talk, and chair**)
4. International Conference on WASTE Management-2025 at Manipal University, Jaipur, from 11-12 November 2025 (**Keynote speaker and chair**)
5. 5th Annual International Conference of AMI 2024 “perspectives of microbes for human welfare”, Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India, from 14-17 November 2024. (**Oral presentation Session 2 Chair**)
6. National Conference on Research and Innovations in Industrial & Marine Biotechnology: A Circular Economy (RIIMBCE-2024) (**Advisory committee**).

7. National Conference on Advances in Biochemical Sciences: Basic to Translational Research, 20-21 March 2024, CURAJ, Ajmer, Rajasthan (**Session 4 chair**).
8. International Conference on Microbial Technologies for Sustainable Bioeconomy” under the aegis of the Ajmer chapter of the Association of Microbiologists of India (AMI). Kishangarh, Ajmer, Rajasthan, India (31st Jan-1st Feb, 2024) (**Convenor**).
9. National Conference on Advances in Biochemical Sciences: Basic to Translational Research. 20-21 March, 2024 (**Advisory committee**).
10. International conference (G-20) of Biotechnology and Human Welfares”: Vision 20230 and Beyond, International conferences of Biotechnology and Human Welfares”: Vision 20230 and Beyond. (ICBHW-2023). 03-04 March, 2023 at Department of Biotechnology, Chaudhary Devi Lal University, Sirsa, Haryana, India. (**Session 10 chair**).
11. International Conference on Biotechnology for Sustainable Agriculture, Environment and Health (BSAEH-2021), Biotech Research Society, India (BRSI), 04-08 April 2021, Jaipur, India. (**Organizing member**)
12. Fifth International Online Conference on Reuse and Recycling of Materials (Polymers, Wood, Paper, Leather, Glass, Metals, Ceramics, Semiconductors, Water, etc) and their products (ICRM 2020). 11th 13th December 2020, Kottayam, Kerala, India. (**Session 6 Plenary session Chair**).
13. Fifth International Online Conference on Reuse and Recycling of Materials (Polymers, Wood, Paper, Leather, Glass, Metals, Ceramics, Semiconductors, Water, etc) and their products (ICRM 2020). 11th 13th December 2020, Kottayam, Kerala, India. (**Session 10 Invited session Chair**).
14. International Conference on Molecular Basis of Disease & Therapeutics. 8-10 March, 2019. (**Patron**).

Participated Symposia, Conferences & Trainings:

1. **Verma P.*** Revolutionizing Biorefineries: Advanced Pretreatment Methods for Lignocellulose Valorization and Sustainable Conversion” at Northwest A&F University, China, 15-20 June 2026 (**Invited as visiting professor**).
2. **Verma P.*** and Goswami, R.K., “Sustainable Low-Cost Microalgal Cultivation System for Scale-Up and Integrated Municipal Wastewater Treatment and High-Value Biomass Production”, X International Conference on Sustainable Energy and Environmental Challenges (X SEEC) at IIT Jodhpur, 15-18 December 2025 (**Invited Speaker**).
3. **Verma P.*** and Nair, L.G. “Breaking Biomass Recalcitrance: Microwave-Assisted Integrated Pretreatment Strategies for Efficient Bioconversion of Agro-industrial Wastes” International Conference on Advances in Biotechnology, Bioprocessing, and Structural Biology (**ICABSB-2025**), December 11-14, 2025, IIT Roorkee, India (**Invited Speaker**).
4. **Verma P.*** and Udaypal. “Bioprocess Optimization of High Lutein Production using Diverse Microalgal spp. and its Assessment of Purification, Characterization, and Antioxidant Potentials”, International Conference on "Biotechnology for Sustainable Development and Circular Economy, (BSDCE-2025)", at Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, Odisha, India, 8th -10th December 2025 (**Invited Speaker**).
5. **Verma P.*** “Microwave-assisted Tetrahydrofuran-water pretreatments: Unlocking High Sugar Yields and Platform chemicals from Agricultural Residues”, International Conference on WASTE Management-2025 at Manipal University Jaipur, 11-12 November 2025 (**Keynote speaker**)
6. **Verma P.*** and Goswami, R.K. “Sub-pilot scale two-stage sequential cultivation of microalgal consortia in municipal wastewater: Effects of seasonal variations on nutrient removal potential, biomass and biomolecules production” at International Conference on Advanced Bioprocessing Technologies for Biomass Conversion: Sustainability and Bioresource Management (XI IBA-IFIBiop, 2024)” from 01/12/2024 to 06/12/2024 in

Hong Kong. (Invited Speaker) (DBT-CTEP International Travel support award DBT/CTEP/02/20240856828).

7. Duggirala, K. S., **Verma, P.**, Singh, A.P. “Antimicrobial Resistance in Bacterial Microbiome from Plant-based functional foods” at International conference on Innovations in Biotechnology for Sustainability (IBS-2024, SBT - JNU), Delhi, India, from November 23-25, 2024. (Best Paper award in **Rapid Oral and poster presentation**).
8. Aachhera, S., Tiwari, S. **Verma, P.***, Gahan C.S. “Redox-controlled fed-batch bioleaching of Zn from ZnS concentrate by *Leptospirillum ferriphilum* dominated iron-oxidizing microbial culture” Presented at 78th "Indian Institute of Metals - Annual Technical Meeting" - 2024 at IIM-ATM 2024 at Gandhi Krishi Vignan Kendra, University of Agricultural Sciences, Bengaluru, India from 20-22 November 2024.
9. Tiwari, S., Aachhera, S., **Verma, P.***, Gahan, C.S. "Influence of fluoride ion on Fe²⁺ oxidation kinetics by *Leptospirillum ferriphilum* dominated chemostat culture" Presented at 78th "Indian Institute of Metals - Annual Technical Meeting" - 2024 at IIM-ATM 2024 at Gandhi Krishi Vignan Kendra, University of Agricultural Sciences, Bengaluru, India from 20-22 November 2024.
10. **Verma P.*** and Nair, L.G., “Microwave-assisted THF-Water system for Bioconversion of Rice Straw for Biofuels and Value-added Platform Chemicals” at 65th Annual International Conference of AMI 2024 “perspectives of microbes for human welfare” Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India from 14-17 November 2024. (**Invited Speaker**).
11. Aachhera, S., Tiwari, S. **Verma, P.***, Gahan C.S*. “Batch bioleaching of zinc from zinc sulfide concentrate using adapted microbial culture of iron oxidising microorganism” presented at 64th Annual International Conference on “Perspectives of Microbes for Human Welfare”-2024 at Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India from 14-17 November 2024. (**AMI Best poster presentation award**).
12. Tiwari, S., Aachhera, S., **Verma, P.***, Gahan, C.S. Influence of sulphate ion on ferrous iron oxidation kinetics by *Leptospirillum ferriphilum* dominated chemostat culture presented at 65th Annual International Conference of AMI 2024 “Perspectives of microbes for human welfare” Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India from 14-17 November 2024.
13. Nair, L.G., and **Verma, P.***. “Acid-Tetrahydrofuran-Organosolv Sequential Two-step Microwave-Assisted Pretreatment for Lignocellulosic Biomass Fractionation to Valuable Platform Chemicals: A Circular and Sustainable Approach Presented at 64th Annual International Conference on “Perspectives of Microbes for Human Welfare”-2024 at Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India from 14-17 November 2024.
14. Mudaliar, S., and **Verma, P.***. Screening, production, optimization, characterization and biotechnological applications of L-asparaginase from indigenous fungal strain of *Fusarium solani*” Presented at 64th Annual International Conference on “Perspectives of Microbes for Human Welfare”-2024 at Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India from 14-17 November 2024.
15. Udaypal, Goswami, R.K. and **Verma, P.***. “Production and Characterization Strategies of Microalgae-derived α -Tocopherol for Therapeutic Applications” Presented at 64th Annual International Conference on “Perspectives of Microbes for Human Welfare”-2024 at Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India from 14-17 November 2024.
16. Aachhera, S., Tiwari, S., Garg, H., Nagar, N., Angadi, S.I., **Verma, P.***, Gahan C.S*. Two-step leaching of metal values from waste mobile phone printed circuit board using biogenic ferric ion with copper leaching kinetics” Presented at Geomicrobiology Network's 2024 Research-in-Progress Meeting Advanced Research Central University of Glasgow, October 2nd, 2024.
17. Aachhera, S., Tiwari, S., Garg, H., Nagar, N., Angadi, S.I., **Verma, P.***, Gahan C.S.* "Urban Mining: A Circular Economy Approach via Biomining" presented at Research & Innovations in Industrial & Marine Biotechnology: A Circular Economy” for Empowering Blue & White Economy at CENTRE FOR INDUSTRIAL

BIOTECHNOLOGY RESEARCH, Siksha 'O' Anusandhan (Deemed to be University) Bhubaneswar, Odisha, India from 04 and 05 November 2024.

18. **Verma P.***, Two-stage sequential cultivation system using microalgal co-cultivation for treatment of municipal wastewater and biomass production: A large-scale study for field applications at IRAN ALGAE-2024, 29-31 August, 2024. (**Invited plenary speaker**).
19. **Goswami, R.K.** and **Verma, P.***, Assessment of biological biofloculants for the harvesting of methylotrophic microalga *Tetraselmis indica*: Efficiency, high-value compounds and mechanisms at “The 2nd International Conference on Microbiology and One Health 2024 (MOH-VN 2024) is being organized from 11 August to 14 August, 2024 at the International Centre for Interdisciplinary Science and Education (ICISE), Vietnam. (**DBT-CTEP International Travel support to the presenter**).
20. **Goswami, R.K.** and **Verma, P.*** Comparative assessment of biofloculants for the harvesting of microalga *Tetraselmis indica*: A promising economical approach for harvesting of high value-added compounds at “8th Green and Sustainable Chemistry Conference” 13-15 May, 2024, Dresden, Germany. (**DST-SERB International Travel support to presenter**).
21. **Dhanokar, A., Verma, P.***, Singh, A.P.* “Folk Medicinal plant-associated endophytic bacteria and their antibacterial activity” presented at the Gordon Research Conference on New Antibacterial Discovery and Development held 03/17/2024 - 03/22/2024 at Ventura Beach Marriott in Ventura, California, United States. (**International Travel support by Conference organizing Committee**).
22. **Dhanokar, A., Verma, P.***, Singh, A.P.* “Antibacterial Potential of the Microbiome of Traditional Medicinal Plant” presented at National Conference on Recent Advances in Medicinal Plant Research, Department of Microbiology, Central University of Rajasthan, India and co-organized by RCFC-Western Region (NMPB, Ministry of Ayush, GOI, Department of Botany, Savitribai Phule Pune University, Pune, India, 28th-29th February, 2024.
23. **Goswami, R.K.** and **Verma P.***, Valorization of secondary treated municipal wastewater to cultivate microalgae *Picochlorum* sp. for biomass and biomolecules production at “International Conference on Microbial Technologies for Sustainable Economy” 31st January 2024-01st February 2024, Central University of Rajasthan-with collaboration of AMI, India (virtual mode).
24. **Dhanokar, A., Verma, P.***, Singh, A.P.* “Antibacterial Insights: Isolated Endophytic Bacteria from Folk Medicinal Plants” at “International Conference on Microbial Technologies for Sustainable Economy” 31st January 2024-01st February, 2024, Central University of Rajasthan, with collaboration of AMI, India (virtual mode).
25. **Verma, P.*** “Sustainable Energy and Environmental Challenges” (VIII SEEC) is being organized from December 4th – 6th, 2023, at the Malaviya National Institute of Technology, Jaipur, India.
26. **Duggirala, K. S., Verma, P.***, Singh, A.P.* “Antimicrobial resistance in bacterial isolates from functional food based on plants” presented at NUTRI-2023 Strategies for Global food and Nutritional Security and Wellness - CC SHAU Hisar 4-6 DEC 2023. (**Best Oral Presentation Award**).
27. **Verma, P.*** Identifying best available technologies for decentralised wastewater treatment and resource recovery for India, SARASWATI 2.O: Indo-EU Workshop, in association with MNIT, Department of Civil Engineering, Jaipur and Department of Microbiology, School of Lifesciences Central University of Rajasthan.
28. **Verma, P.**, “Novel fungi-assisted microalgae for lipid-rich biomass harvesting system integrated with secondary treated urban wastewater treatment” Invited for Talk in the conference AMI 2023 held at Bundelkhand University, Jhansi on 1st-3rd December, 2023.
29. **Goswami, R. K., and Verma, P.***, “Development of novel synergistic microalgal consortium for raw urban sewage wastewater treatment, bioenergy, and value-added biomolecule generation” presented at 64th Annual Conference on Microbe for Life (Lifestyle for the Environment): A strategy for wellbeing, organized by AMI

held at Bundelkhand University, Jhansi on 1-3rd December 2023. (**AMI Best Poster presentation award**).

30. Duggirala, K.S., Verma, P., Singh, A.P. “Antibacterial Potential of the Endophytic Bacteria Isolated from functional food based on plants” presented at 64th Annual Conference on Microbe for Life (Lifestyle for the Environment): A strategy for wellbeing, organized by AMI held at Bundelkhand University, Jhansi on 1-3rd December 2023.
31. Nair, L.G., and Verma, P*., “Microwave-assisted Lewis-acid-based tetrahydrofuran organosolv pretreatment system for conversion of lignocellulosic biomass” at the International Conference on New Horizons in Biotechnology (NHBT-2023) jointly organized by CSIR-NIIST, Trivandrum and the Biotech Research Society, India at Trivandrum, India during November 26-29, 2023.
32. Mudaliar, S., and Verma, P*., Assessment of lytic polysaccharide monooxygenases (LPMO) activity from different fungal strains collected from ecological niches of Rajasthan” at the International Conference on New Horizons in Biotechnology (NHBT-2023) jointly organized by CSIR-NIIST, Trivandrum and the Biotech Research Society, India at Trivandrum, India during November 26-29, 2023.
33. Udaypal, Goswami, R.K. and Verma, P*., “Screening of Microalgae and Cyanobacteria as Potential Sources of Natural Antioxidants” at the International Conference on New Horizons in Biotechnology (NHBT-2023) jointly organized by CSIR-NIIST, Trivandrum and the Biotech Research Society, India at Trivandrum, India during November 26-29, 2023.
34. **Verma, P.*** Session Chair, International conference (G-20) of Biotechnology and Human Welfares”: Vision 20230 and Beyond, International conferences of Biotechnology and Human Welfares”: Vision 20230 and beyond. (ICBHW-2023) held on 03-04 March 2023 at Department of Biotechnology, Chaudhary Devi Lal University, Sirsa, Haryana, India
35. **Verma, P.*** An Integrated approach for bioprospecting of fungi and its application using enzyme cocktail in biorefinery. **Invited as the Delivery Keynote** in the International Conference on “Biotechnology and Human Welfare: Vision 2030 and Beyond (ICBHW-2023) held on 03-04 March, 2023, at the Department of Biotechnology, Chaudhary Devi Lal University, Sirsa, Haryana, India
36. **Verma, P.*** Myco-valorisation approach using column bioreactor of immobilised *Myrothecium verrucaria* ITCC-8447 and *Stropharia* sp. ITCC 8422 on a synthetic/natural support system for detoxification and degradation of anthraquinone dyes. **Invited as the Delivery Keynote** on AMI “Microbes and Society: Current Trends and Future Prospects (MSCTFP-2022) Association of Microbiologists of India, India, held at the University of Mysuru, India.
37. Mudaliar, S., Agrawal, K., Kumar, B., Verma, P.* Lytic polysaccharide monooxygenase: A powerful tool in biofuel generation. 3rd International Conference on Bioprocess for Sustainable Environment and Energy, held on 20th-24th June 2022 at NIT, Rourkela, Odisha
38. Nair, L.G., Agrawal, K., Kumar, B., Verma, P.* Exploration of microwave-assisted organosolv pretreatment for the bioconversion of Lignocellulosic Biomass. 3rd International Conference on Bioprocess for Sustainable Environment and Energy, held on 20th-24th June 2022 at NIT, Rourkela, Odisha
39. Kumar, B., Bhardwaj, N., Agarwal, K., Verma, P.* Development of Single-Step Integrated Biorefinery using Synergistic Action of Ligno-hemicellulolytic Enzymes in Efficient Bioconversion of Rice straw. **Invited Plenary Speaker** 3rd International Conference on Bioprocess for Sustainable Environment and Energy, held on 20th-24th June 2022 at NIT, Rourkela, Odisha
40. Kumar, B., Bhardwaj, N., Verma, P. Development of efficient transition metal salt-assisted pretreatment and enhanced fungal cellulolytic and xylanolytic enzyme production-purification process for future integrated biorefinery application. **Invited Plenary Speaker** at 7th International Conference on Biomass, Held on Apr. 8-9, 2022, Organised by the Biomass Energy Committee of China Renewable Energy Society (CRES), Biomass Energy Innovation Alliance and Xiamen University, and will be co-organised by AIChE Forest Bioproducts Division, European Biomass Industry Association, and Chinese Renewable Energy Industries Association

(CREIA).

41. **Verma P.** Kumar B., Bhardwaj, N., and Alam, A., Bioprospecting of Fungi from ecological niches of Assam: Reservoirs of industrially relevant biomolecules. **Prof. P. C. Jain Memorial Award Lecture** at National Conference on Mycology and Mankind: Marching ahead in the new era and 48th Annual Meeting of the Mycological Society of India held on 8th March 2022. at ICAR Research Complex for NEH Region Umiam, Meghalaya.
42. Kumar, B., Bhardwaj, N., **Verma, P.***. Devising a microwave-assisted alkali/transition metal salts pretreatment strategy for enhanced ethanol and oligosaccharides production from rice straw. Invited talk by Dr. Kumar at the 2nd International Workshop on Sustainability of Environmental Technologies and Production Processes. 26th November 2021, Organised By: Asociación de Biotecnología, Ingeniería Ambiental y Energías Renovables, (ABIAER), Mexico City, Mexico.
43. Goswami, R.K., and **Verma, P.** Strategies to augment biomass and biomolecules productivity of diverse microalgae strains using different carbon sources, at Green and Sustainable Chemistry Conference, 16-18, November 2021, online – Live and On-demand, Elsevier,
44. **Verma, P.** GH10 XynF1, Predominant Xylanase in *Aspergillus oryzae* ITCC- 8571 proteome: Its Cloning, Expression, and Characterization for Biorefinery Application, **Invited Plenary Speaker**, 4th National Conference on Cellular and Molecular Biology & Biotechnology, Oct 28th – 29th, 2021, Sharda University, New Delhi
45. Goswami, R.K., and **Verma, P.** Microalgal heterotrophic and mixotrophic culturing: An assessment using carbon source for biomolecules production, Poster Presentation at International Conference on Biotechnology for Sustainable Agriculture, Environment and Health (BSAEH-2021), Biotech Research Society, India (BRSI) 04-08, April 2021, Jaipur, India
46. **Verma, P.**, Kumar, B., Agrawal, K., and Bhardwaj, N. Integrated Bioprocess Development: Key to Circular Bioeconomy, **Invited Plenary Speaker**, International Conference on Biotechnology for Sustainable Agriculture, Environment and Health (BSAEH-2021), Biotech Research Society, India (BRSI), 04-08, April 2021, Jaipur, India
47. **Verma P.*** Kumar B., Bhardwaj, N., and Agrawal, K., Bioprospecting of Fungi: A Bio-logic Solution. **MSI-Fellow Award Lecture** at National Conference on Biodiversity and Biotechnology of Fungi and 47th Annual Meeting of Mycological Society of India held on February 22-24, 2021, at Botany Department, Punjabi University, Patiala.
48. **Verma P.*** Kumar B., Bhardwaj, N., and Agrawal, K., Lignocellulosic Biomass valorization: Role of Alkali Alkali-Assisted Microwave Pretreatment. **Invited Plenary Speaker** at Fifth International Online Conference on Reuse and Recycling of Materials (Polymers, Wood, Paper, Leather, Glass, Metals, Ceramics, Semi Conductors, Water, etc) and their products (ICRM 2020) 11th 13th December 2020, Kottayam, Kerala, India
49. **Verma, P. Speaker of Eminence** on “Tools for future Industrial bioprocessing: Fermentation and Downstream Processing”. Workshop on Fermentation Technology. E-Refresher Course 21st Century The Era of Biotechnology, September 17-18, 2020, APS University, Satna (MP), India.
50. **Verma, P. Invited Plenary Lecture** on “Lignocellulosic Biorefinery: An understanding of biomass pretreatment and role of enzymes in generation of value-added products”. Xiamen Forum on Biomass Frontiers 2018, October 19-22, 2018, Xiamen University International Academic Exchange Centre (Xiang'an Campus), **Xiamen, China.**
51. Bhardwaj, N., **Verma, P.*** Aqueous Two-Phase Extraction of Fungal Xylanase in PEG/Sulphate System: Optimization Using Response Surface Methodology, BioSpectrum 25-26 August, 2017, UEMI, Kolkata
52. Agrawal, K., **Verma, P.*** Substrate Affinity of Laccase and Discrepancy in Relation to Enzyme Activity, BioSpectrum 25-26 August, 2017, UEMI, Kolkata. (**Best poster presentation award**)
53. Kumar, B., **Verma, P.*** Optimization of Microwave-Assisted Pretreatment of Rice Straw with FeCl₃ in

- Combination with H_3PO_4 for Improving Enzymatic Hydrolysis. BioSpectrum 25-26 August 2017, UEMI, Kolkata.
54. Bhardwaj, N., Kakoli Chanda, Himanshu Prasad, Venkatesh Chaturvedi, Gauri Dutt Sharma, Renu Bhatt and **Pradeep Verma**. Production and Optimisation of Xylanase from *Aspergillus oryzae* (LC1) using OFAT and RSM MSI, NCFB-2016, Nov 16-18, BISR Jaipur.
 55. Agrawal, K., **Verma, P.*** Laccase a “Green Tool” from various ecological niches of Rajasthan MSI, NCFB-2016, Nov 16-18, BISR Jaipur.
 56. Kumar, B., **Verma, P.***. Fungal Assisted Microwave Pretreatment of Rice Straw for Enhanced Enzymatic Hydrolysis. MSI, NCFB-2016, Nov 16-18, BISR Jaipur.
 57. Agrawal, K., **Verma, P.***, Bio-composite: A Clean Approach using Fungal Assisted synthesis. MSI, MSI, ETFPP- 2015, BHU, Varanasi, India
 58. Kumar, B., **Verma, P.***. Microwave-assisted pretreatment of rice straw with $FeCl_3$ in combination with orthophosphoric acid for improving enzymatic hydrolysis. AMI, 7-10, December 2015, JNU, New Delhi, India
 59. Nisha Bhardwaj, Kakoli Chanda, Himanshu Prasad, Venkatesh Chaturvedi, Gauri Dutt Sharma, Renu Bhatt, **Pradeep Verma***. Optimization of Xylanase Production in *Aspergillus oryzae* Using Different Agro-waste by Response Surface Methodology NHBT 2015 Nov.22-25,2015 Trivandrum.
 60. Ansar Alam, Kakoli Chanda, Himanshu Prasad, Venkatesh Chaturvedi, Gauri Dutt Sharma, Renu Bhatt, **Pradeep Verma***. Synthesis and Identification of Some Important Bioactive Molecules Produced by a Strain of *Aspergillus Oryzae* Isolated from Assam NHBT 2015 Nov.22-25,2015 Trivandrum.
 61. Ansar Alam, Kakoli Chanda, Himanshu Prasad, Venkatesh Chaturvedi, Gauri Dutt Sharma, Renu Bhatt **Pradeep Verma***. Optimization of Cellulase Production from a Strain of *Schizophyllum commune* by OFAT Approach using Wheat Bran as Substrate, NHBT 2015 Nov.22-25,2015 Trivandrum
 62. Agrawal, K., Venkatesh, C. **Verma, P.***. Exploitation of laccase for bio-composites synthesis and dye degradation NHBT 2015 Nov.22-25,2015 Trivandrum
 63. Kumar, B., **Verma, P.***. A comparative study of Lignocellulosic biomass pre-treatment for production of bio fuel and value-added product ICRRABR-201514th to 17th March, 2015 at MNRE Kapurthala, Punjab
 64. **Verma P.***, Venkatesh Chaturvedi, Supriya Dhruv Biodegradation of Malachite green by novel copper-tolerant *Ochrobactrum pseudogrignonsense* strain GGUPV1 isolated from copper mine waste ICETB-20146th to 9th Nov, 2014 at JNU Delhi.
 65. Bhardwaj, N. & **Verma, P.*** Isolation of potential Cellulase and Xylanase producing fungal strains from selected areas of Assam waste ICETB-20146th to 9th Nov, 2014 at JNU Delhi
 66. **Verma P.*** Role of peroxometal complex in delignification of wood biomass for enhanced sugar production. International Conference: Wood Is Good: Current Trends and Future Prospects in Wood Utilization 21st to 23rd Nov, 2014, Indian Institute of Wood Science Technology, Bengaluru
 67. **Verma P.*** and Venkatesh Chaturvedi Generation of Electricity Through Metabolism of Chicken Feathers by *Pseudomonas aeruginosa* In A Microbial Fuel Cell (MFC) International Symposium on – FDMIR-2013(AMI-2013) 17th to 20th Nov, 2013 at MD University, Rohtak
 68. Humaira Sheikh, Kanisk Jaiswal, Ravi Shankar, Venkatesh Chaturvedi, K. Kesvan, Renu Bhatt, **Pradeep Verma**. Antibacterial/antialgal properties of Silver Nanoparticles (SNP) synthesised by chemical reduction method accepted for presentation in the Annual International Interdisciplinary Conference on 24-26 April 2013 at the University Azores, Portugal
 69. Humaira Sheikh, Venkatesh Chaturvedi, **Pradeep Verma**. (2013) Generation of Biomass and Bioelectricity from Cultures of Cyanobacteria by Employing Microbial Fuel Cells, algae biofuels and products international conferences 2013, Toronto
 70. Anamika Pandey, Venkatesh Chaturvedi, **Pradeep Verma**. Optimization of Xylanase Production by *Aspergillus niger* by Employing Various Agrowastes National Conference in Science College in Bilaspur
 71. Humaira Sheikh, Kanisk Jaiswal, Ravi Shankar, Venkatesh Chaturvedi, K. Kesvan, Renu Bhatt, **Pradeep**

- Verma.** Synthesis of Silver Nanoparticles (AgNP) through chemical reduction method and evaluation of its antifungal activity on two common cyanobacteria, DBT sponsored National Seminar on Advances in Molecular Pharmaceutics, Nanomedicine, Nanobiotechnology and Drug Research at Columbia College of Pharmacy Raipur
72. Maya Vaishnaw, **Pradeep Verma** Determination of antioxidant activity of commercial honey and flowers National Symposium on Plant Biology and its Role in Sustainable Food and Energy Production Organised by Department of Botany 2012 GGV Bilaspur
 73. Monika Chandravanshi, Manoj Rahangdale, **Pradeep Verma.** A Novel attached Culture Method for Treatment of Copper Industry Wastewater, National Symposium on Plant Biology and its Role in Sustainable Food and Energy Production, Organized by Department of Botany, 2012, GGV Bilaspur
 74. **Pradeep Verma**, National seminar on INSPIRE-2010, Department of Science & Technology, Ministry of Science & Technology and Government of India, organised by Assam University, Silchar-788011.
 75. **Pradeep Verma** National workshop of GCMS 2010 Organised by Department of Life Sciences, Assam University, Silchar-788011.
 76. **Pradeep Verma** National seminar on 'Sustainable Livelihood Development through Fruits and Vegetables Processing in the North eastern India', 2010, Assam University, Silchar, Organised by Department of Agricultural Engineering, School of Technology, Assam University, Silchar-788011. Sponsored by the Ministry of Food Processing Industries, Government of India.
 77. **Pradeep Verma**, C Mai, Y Xie, J Dyckmans, H Militz, (2009) Mode of action of DMDHEU treatment against wood decay by white and brown rot fungi, European conference on wood modification (ECWM), April 27-29, 2009, Stockholm, Sweden
 78. **Pradeep Verma**, Watanabe, T. (2009) Current Status of Biofuels Policy and their Technological Development in India Global COE conference March 11-13, 2009 Kyoto, Japan
 79. **Pradeep Verma.** (2008) Biofuels and Future Challenges JSPS Science dialogue, Ritsumikan Senior Science High School, 15 July 2008, Kyoto, Japan
 80. **P Verma**, C Mai, A Krause, H Militz. 2005, Studies on the Resistance of DMDHEU Treated Wood against White-rot and Brown-rot fungi oral presentation at IRG Conference (Recipient of Ron Cockcroft Award), Bangalore, India
 81. **Pradeep Verma**, Dutta Madamwar. Participated in the International Symposium on New Horizons in Biotechnology (NHBT 2001) presented the poster entitled, Production of Ligninolytic Enzymes by Co-cultivation of *P. ostreatus* and *P. chrysosporium* for Textile Dyes, Decolorization. Organised by Council of Industrial Research (CSIR) Trivandrum, India
 82. **Pradeep Verma**, Dutta Madamwar. Participated in the 41st Association of Microbiology of India (India), presented the poster entitled "Decolorization of Synthetic dyes by *Phanerochaete chrysosporium*, Jaipur, India.
 83. **Pradeep Verma**, Dutta Madamwar. Participated in Mycological Society of India (MSI), presented the poster entitled "Production of ligninolytic enzymes by Co-cultivation of Different White Rot Fungi for Faster Degradation of Neem Hull Waste" Vallabh Vidyanagar, Gujarat, India.
 84. **Pradeep Verma**, Dutta Madamwar. Participated in UGC-DSA Sap Symposium, presented the poster entitled "Decolourization of Various Synthetic Dyes by White Rot Fungus *P. chrysosporium*", Department of Bioscience, Vallabh Vidyanagar-388120, Gujarat, India.
 85. **Pradeep Verma** participated in the 2nd International Symposium on Molecular Biology, Biotechnology and Allergy, Organised by Sun Pharma Advanced Research Centre, University of Buffalo, NewYork and Indian Allergy Institute, Baroda, Gujarat, India.
 86. **Pradeep Verma**, Dutta Madamwar, participated in the 41st Association of Microbiology of India (India), presented the poster entitled "Decolorization of Synthetic dyes by *Phanerochaete chrysosporium*, Jaipur, India.

87. Participated in Scanning Electron Microscope Workshop, at Uppsala, Sweden **(2005)**
88. Participated in Training on High Performance Thin Layer Chromatography (HPTLC), Organised by Cammag Switzerland, Mumbai, India **(2001)**
89. Participated in Workshop on Recent Technique in Electrophoresis, organised by Spinco Biotech Limited, India, Yercaud, Tamil Nadu, India **(2000)**

Subject Area Expert /Reviewer:

Reviewer/Evaluator of Research Proposal for Different National and International funding agencies

- ✚ **Department of Biotechnology (DBT), Ministry of Science and Technology, New Delhi, India**
- ✚ **Department of Science and Technology (DST), Ministry of Science and Technology, New Delhi, India**
- ✚ **The European Science Foundation, Luxembourg**
- ✚ **King Fahd University of Petroleum & Minerals (KFUPM), Saudi Arabia**



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3. Applied Biochemistry and Biotechnology
4. Applied Microbiology
5. Biodiversitas Journal of Biological Diversity
6. BioEnergy Research
7. Biomass Conversion and Biorefinery
8. Bioremediation Journal
9. Bioresource Technology
10. Bioresource Technology Reports
11. Bioresources
12. Biotechnology for Biofuels
13. Biotechnology Progress
14. Biotechnology Reports
15. Carbohydrate Polymers
16. Cellulose
17. Chemistry Letters
18. ChemistrySelect
19. Chemosphere
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21. Energy & Fuels
22. Energy Conversion and Management
23. Energy Technology
24. Engineering in Life Sciences
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26. Folia Microbiologica
27. Frontiers in Microbiology
28. Frontiers in Nanotechnology
29. Fuel Processing Technology
30. Industrial Crops and Products
31. International Biodeterioration & Biodegradation
32. Journal for Cleaner Production
33. Journal of Basic Microbiology
34. Journal of Biotechnology
35. Journal of Environmental Chemical Engineering
36. Journal of Food Science and Technology
37. Journal of Hydrogen Energy
38. Journal of Water Process Engineering
39. PlosOne
40. Polish Journal of Microbiology
41. Process Biochemistry
42. Protein Expression and Purification
43. Renewable and Sustainable Energy Reviews
44. Renewable Energy
45. Science of the Total Environment
46. Scientific Reports
47. Sugar Tech
48. Waste Management

Reviewer of Book Proposal

Springer

Elsevier

CRC-Press

