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| Dr. Rupa Verma**Assistant Professor****PG Biotechnology, Vocational (Department of Botany)****Ranchi University Ranchi, Jharkhand India.****Address**:**Work Place**: Dr. Rupa Verma, Assistant Professor, Msc Biotech Under Department of Botany Ranchi University Ranchi, Jharkhand, India 834008.**Residence**:402–A, Mangalam apartment,Near Sukhdev Nagar Police Station, Ratu Road, Ranchi, Jharkhand, India, 834001**Mobile**:7479736099,7765956333 **Email**:drrupav@gmail.comrupavermabiotech@gmail.comORCID ID: 0000-0002-2095-0332 |  |

**Education**

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| --- | --- | --- | --- | --- | --- | --- |
| **sr.no** | **Degree/Course** | **School/College** | **Board/University** | **Year** | **Division** | **% Marks** |
| 1 | **Matriculation** | S.S. Doranda Girls High School, Ranchi  | BSEB Patna | 1996 | FIRST | 63 |
| 2 | **Inter Science** | Nirmala College, Ranchi  | BIEC Patna | 1998 | FIRST | 62 |
| 3 | **B.Sc. (Biotech)** | Marwari College, Ranchi  | Ranchi University | 2002 | FIRST | 69.20 |
| 45. | **M.Sc. (Biotech)****MSc. Botany** | Marwari College, RanchiKalinga University, Raipur | Ranchi UniversityKalinga University | 2009-20112017-2019 | FIRSTFirst | 74.6768% |
| 6. | **Ph. D****Topic –** Studies on the effect of antimicrobial peptide apidaecin on plants against Bacterial and fungal pathogens. | Ranchi University, Ranchi | Ranchi University | 2012-2017 |  | 68% |

**Research Experiences**

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| **Sr. No.** | **Research study/project** | **Institutes/Centre** |
| 1 | On Pathological Sciences | Department of Pathology, RIIMS, Ranchi |
| 2 | Animal Health and Vaccine Production  | Animal Health and Vaccine Center, Ranchi |
| 3 | Research project on Oral Cancer  | Bokaro General Hospital, Bokaro |
| 4 | Species identification of *Pongamia pinnata* through RAPD (molecular marker) | Indian Forest Productivity Institute, Ranchi |
| 5 | In vitro root proliferation in ‘aloe-vera’ Plant  | Tissue culture lab of IFP Mandar, Ranchi |
| 6. | Studies on the effect of antimicrobial peptide apidaecin on plants against Bacterial and fungal pathogens. | ICAR, RCER, Plandu Ranchi |

**Core Competence**

* DNA, RNA, Protein Isolation, purification
* PCR
* Gel Electrophoresis
* Southern Blotting centrifugation
* Spectrophotometry, SDS PAGE
* Plant Tissue culture Techniques
* ELISA
* Centrifugation
* Microbial methods
1. Isolation &purification
2. Agar well diffusion technique
3. Disc diffusion technique
4. Poisoned food technique
5. Spore germination technique
6. Dual culture technique
7. Microdilution techniques
8. **Computational Biology: NGS analysis, Python, Drug Designing,**
9. **Molecular Docking**

**Teaching Experiences**

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| --- | --- | --- | --- |
| **SUBJECT** | **INSTITUTION/SCHOOL** | **POSITION** | **YEAR** |
| Biotechnology | Senior Secondary School, JVM Shyamali, Ranchi | Guest Faculty | **2013–2014** |
| Microbiology, Environmental Ecology | National Institute of Foundry and Forge Technology (NIFFT), Ranchi | Guest Faculty for MTech Classes | **2013–2014** |
| Biotechnology | MSC. Biotechnology, Under Department of Botany, Ranchi University, Ranchi | Guest Faculty for Postgraduate Classes | **2016–2018** |
| Biotechnology | MSC. Biotechnology, Under Department of Botany, Ranchi University, Ranchi | Assistant Professor (Contractual) in MSc. Biotechnology, Ranchi University Ranchi | **2018-till Date** |

**Faculty Development Program**:

* 1. Emerging Trends in Nanotechnology (ENTN-2021) Online MODE
	2. Functional Nano –Biomaterials (FNBM 2023). training and Workshop. Faculty Development, SERB sponsored in BIT Mesra Ranchi.
	3. FDP MDP International Faculty Development Program on Mechanics of Data Interpretation for Effective Research Paper Drafting and Publication. March 2023
	4. FDP-MMD-2023(FACULTY DEVELOPMENT PROGRAM)
	5. One week(17-23 April 2023)FDP on Big Data and Analytics: Recent, trends tools and technologies’’ organized by Computer Engineering Cummins College For Women, Pune, Maharashtra.
	6. FDP on Quality Research Paper writing and publishing in High Impact Journal {27-29 July 2023 (online mode) organized by UDAAN educational services.

 **Training/ Awareness Program**:

1. Research project online in computational biology (6 months) at DIGIANALYX RANCHI.
2. IP/ Training Program under National Intellectual Property Awareness Mission, Organized by the Intellectual Property Office and MoE’s Innovation cell, Ministry of Education NIPM, Ministry of Commerce and Education.2023 India.
3. Demonstrate Springer Nature Platform, By Springer nature society.
4. MS EXCEL Advanced course organized by IRA Edu-tech MSME Registered in 18 July 2023

**Published Paper in Journals**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S. No. | Title with Page nos. | Journal | ISSN/ ISBN No. | Whether Peer-reviewed. Impact factor, if any | No. of co-authors  | Whether you are the main author  | Refereed/ Non refereed | Whether index or not |
| 1. | Screening of Some Antibiotics against `*Ralstonia Solanacearum’* Causes Bacterial Wilt in Brinjal (*Solanum Melongena L*.) Plants obtained from Different Regions of Ranchi District. 21405-21408 | ***International Journal of Recent Scientific Research*** | 0976-3031 | Peer reviewedSjif 7.383ICV 81.25 | 3 | Main author | Refereed | indexed |
| 2. | *Trichoderma asperellum*, a Potential Fungal Biocontrol Agent Against*Aspergillus niger*.74078 | ***Journal of Advanced Laboratory Research in Biology*** | 0916-7614 | Peer reviewed | 3 | Main author | Refereed | indexed |
| 3. | Antimicrobial Potential of an Animal Peptide and Some Antibiotics against a Dreaded Soil Born Phytopathogen *Ralstonia Solanacearum*. 23015-23022 | *International Journal of Current Research* | : 0975-833X | Peer reviewedSJIF 8.132ISI 1.5 | 3 | Main author | Refereed | indexed |
| 4. | Control of *Ralstonia solanacearum* Infection in Tomato, Brinjal, and Capsicum by antibiotic sensitivity test PP 35-40  | ***Journal of Advanced Laboratory Research in Biology*** | 0916-7614 | Peer reviewed | 3 | Main author | Refereed | indexed |
| 5. | Ethnological and Ethno-medicinal Importance of *Aegle marmelos* (L.) Corr (Bael) Among Indigenous People of India.PP 290-312 | ***American Journal of Ethnomedicine*** | 2348-9502 | Peer reviewedIMPACT 8.35 | 5 | CO author | Refereed | indexedh- index 15 |
| 6. | Isolation and characterization of *Rhizobium* species from cultivated and wild leguminous plant pp1519-1530 | ***Journal of Emerging Technologies and Innovative Research (JETIR)*** | 2349-5162 | Peer reviewedImpact 7.95 | 3 | Main author | Refereed | indexed |
| 7. | Current Advances in Computational Biology of Lung Cancer pp 78=99 | ***International Journal of Current Science Research and Revie*** | 2581-8341, | Peer reviewedImpact 6.78 | 10 | Co-author | Refereed | indexed |
| 8. | Post Covid effect in Jharkhand: A Review pp | ***International Journal of Advanced Research in Biological Sciences.*** | 2348-8069 | Peer reviewedImpact 5.510ICV 83 | 5 | Main author | Refereed | indexed |
| 9. | Current Incorporation and Impact of Computational Biology in Alzheimer's Disease | ***International Journal of Health Sciences and Research*** | 2249-9571 | peer-reviewed impact 5.1icv82.46 | 10 | Co-author | Refereed | indexed |
| 10. | Application of Recombinant DNA Technology in Agriculture: A Review | ***International Journal of Advanced Research in Biological Sciences*** | 2348-8069 | Peer reviewedImpact 5.510ICV 83 | 5 | main author | Refereed | Indexed |
| 11. | Review on soil Bacteria *Rhizobia* as Plant Growth Promoters PP 51-56 | ***RUJOST*** | 2319-4227 | Peer reviewed | 5 | main author | N0 | N0 |
| 12. | Effect of 2,4 –Dichlorophenoxy Acetic acid (2,4-D) and Benzyle Amino Purine(BAP) concentration on callus induction in two traditionally grown grain legumes of Jharkhand *Cymopsistetra gonoloba* L. and *Vigna radiate PP 65-67* | ***RUJOST*** | 2319-4227 | Peer reviewed | 3 | Co-Author | NO | NO |
| 13. | *Arbuscular mycorrhizal fungi induced molecular response in citrus PP* pp.20187-2019 | ***International Journal of Current Research*** | 0975-833X | Peer reviewedSJIF 8.132ISI 1.5 | 3 | Main author | Refereed | indexed |
| 14. | Recent Developmental Strategies Targeting Aging: An Integrative Approach Towards Aging Disorders and its Treatment pp 15-25 | ***Acta Scientific Biotechnology*** | 2581-3226 | Peer reviewedIMPACT 1.416 NAAS:5 | 10 | Co-author | Refereed | indexed |
| 15. | Biosurfactant Production in Bacteria Isolated from Oil and Pesticide Contaminated Soil of Ranchi District pp 29-34 | ***Journal of Scientific Research*** | 2070-0245  | Peer reviewedIMPACT 4.003 | 3 | Main author | Refereed | indexed |
| 16. | Bioinformatics approaches using the computational tool of neurodegenerative diseases | ***Journal of Emerging Technologies and Innovative Research (JETIR)*** | 2349-5162 | Peer reviewedImpact 7.95 | 3 | Main author | Refereed | indexed |
| 17. | Effect of NaCl treatment in *Solanum lycopersicum L*. cultivars from Jharkhand. | ***Indian Journal of Biotechnology*** | 0972-5849 | Peer reviewed0.324 | 5 | Co-author | Refereed | Indexed |
| 18. | Comparative studies of functional groups present in invasive and economically important plant leaf methanolic extracts by using FTIR spectroscopic analysis | ***GSC Biologicals and Pharmaceutical Sciences***  | E ISSN 2581-3250 | Peer Reviewed | 3 | First | Refereed | Indexed |

 **Articles/ Chapters published in Books**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| S. No. | Title with Page nos. | Book Title, editor &Publisher | ISSN/ ISBN No. | Whether Peer-reviewed. | No. of co-authors  | Whether you are the main author  | International/ National |
| 2. | The Biological role of toxic secondary metabolites of different origins on insects and humans. | A Journey into EntomologyLEKH PUBLICATION RANCHI vol,1 | **ISBN 978-93-5811-323-5** | Peer reviewed | 2 | Co-author | National |

 **Full paper in conference proceedings**

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| --- | --- | --- | --- | --- | --- | --- |
| S. No. | Title with Page nos. | Book Title, editor &Publisher | ISSN/ ISBN No. | No. of co-authors  | Whether you are the main author  | API score claimed by the candidate |
| 1. | Effectiveness of Combination of Antibiotics on Different Isolates of ‘*Ralstonia solanacearum’* – A Dreaded Soil Born Phytopathogen and a Causative Agent of Bacterial Wilt. **191–201** | *Applications of Biotechnology for Sustainable Development* **Springer Nature Singapore Pte Ltd. 2017 (ISBN:**  | **ISBN 978-981-10-5537-9** | 3 | main | 45 |

 **Research Guidance**

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| --- | --- | --- |
| **Sl no** | **Research project** | **No of students** |
|  | M.Sc. Dissertation Research Project with research publications | 15 students (four batches from 2019 to 2022) |

**Training courses, teaching-learning evaluation technology programs, faculty Development programs**

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| --- | --- | --- | --- | --- |
| **Sl. No.** | **Programs** | **Organized By** | **Duration** | **Date** |
| **1.** | INDUSTRIAL INTERNSHIP PROGRAM RESEARCH PROJECT | DIGIANALYIX Tech. Institute and Research Solutions, PVT. Tharpakna Ranchi | 9 MONTHS | 08-10-21-25-07-2022 |
| **2.** | FDP-MDP-2023 (FACULTY DEVELOPMENT PROGRAM) | EUDOXIA RESEARCH CENTRE INDIA ISO 9001:2015 certifies, IAF accredited and regd under MCA, Gov of India | ONE WEEK | 22.03.2023 TO 27.03.2023 |
| **3.** | FDP-MMD-2023(FACULTY DEVELOPMENT PROGRAM) | EUDOXIA RESEARCH CENTRE INDIA iso 9001:2015 certifies, IAF accredited and regd under MCA, Gov of India | ONE WEEK | 17-04-2023 TO-24.03-2023 |
| **4.** | CHEMOINFORMATICS AND DRUG DESIGN PROGRAM | ALPHITE LEARNINGS REORGANIZED BY SMALL AND MEDIUM ENTERPRISES DEVELOPMENT, GOV OF INDIA ISO 9001:2015 certifies, | TEN DAYS | 12.10.2020 |
| **5.**  | ADVANCED PHYSICAL TOOLS AND TECHNIQUES FOR MATERIALS CHARACTERIZATION | MAHATMA GANDHI CENTRAL UNIVERSITY MOTIHARU-845401 BIHAR | ONE WEEK | 28.07.2020- 3.08.2020 |
| **6.** | FDP INTERNATIONAL PROGRAM(ENTN-2021) | VISHNU INSTITUE OF TECHNOLOGY: BHIMAVARAM | FIVE DAYS | 9.11.2021-13.11.2021 |
| **7.** | Bioinformatics for Drug Discovery | Decode Life | One month | 20.05.23- 13.06.23 |

 **Papers presented in Conferences, Seminars, Workshops, and Symposium**

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| --- | --- | --- | --- | --- |
| **Sl. No.** | **Title of the paper/ presented**  | **Title of the Conference/Seminar** | **Organized By** | **Whether International/Nationa/State/Regional/Local-College/UniversityNational/****International/ Award** |
| **1.** | Ecofriendly management of Black mold disease of the onion by *Trichoderma asperellum* | 3rd World Clean Environment Summit 2019 | Department of Botany, St. Xavier’s College, Ranchi, IBRF Kolkata, CIU, New Delhi | National /best awarded for oral presentation |
| **2.** | Upliftment of the tribal population of Jharkhand by applying microbes as biofertilizers | DBT sponsored Sensitization workshop-2017 | S.K. Choudhary, Department of Botany, T M BHAGALPUR UNIVERSITY and DBT | National/presented |
| **3.** | Promotion of Biotechnologies for socio- Economic uplift of SC/ST, rural poor, and women in Bihar and Jharkhand | DBT sponsored Sensitization workshop-2017 | Jyoti Kumar, AK Choudhary Department of Botany RU, and DBT | National /presented |
| **4.** | Screening antibiotics of bacterial wilts of solanaceous crops. | National symposium on crop pathosystem interaction under aberrant weather conditions and prospectives for crop health management | CRRI AND ICAR | National/Presented |
| **5.** | 10th International Conference on Interdisciplinary for Sustainable Development | Prominent Research Scientist Award nominated | Western Sydney University and Jamia Hamdard, New Delhi | International |
| **6.** | Effectiveness of Combination of Antibiotics on Different Isolates of ‘*Ralstonia solanacearum’* – A Dreaded Soil Born Phytopathogen and a Causative Agent of Bacterial Wilt. | National Conference for Biotechnology for sustainable development (BSD-2015) | BIT MESRA RANCHI | NATIONAL |
| **7.** | Advancing Research and Fostering Innovation through Richer Collaboration | National symposium | Devi Ahilaya Vishwavidyalaya | National |

**Invited Lectures and Chairmanships at National or International conferences/seminars**

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| **Sl. No.** | **Programs** | **Organized By** | **Duration** | **Date** |
| **1.** | International Conference on Environment, Forestry, and College Sustainable Agriculture invited as chairperson | St. Xavier College Ranchi and International Academy of Science and Research | 3 days | 14-16 November 2022 |
| **2.** | National Webinar on Environmental Ecology and Microbiology invited as resource person | Empyrean Club Department of Botany St. Xavier’s College, Ranchi and St. Joshep’s University Bangalore | One day | 25 JULY,2023 |
| **3.** | Refresher Course in Life Science invited as Resource person | UGC Human Resource Development Center Ranchi University | 14 Day | 18.7.2023-31.7.2023 |

**Awards Recieved**

1. **IRSD Prominent Young Scientist Award 2023 on 10nth International Conference on Interdisciplinary Research for Sustainable Development / IRSD23**
2. **National /best awarded for oral presentation at 3rd World Clean Environment Summit 2019**

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| --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Title of the Conference** | **National/****International/ Award** | **Title of the paper/ presented and appreciated** | **Organizer** | **Speaker/Year** |
| 1. | 3rd World Clean Environment Summit 2019 | National /best awarded for oral presentation | Ecofriendly management of Black mold disease of the onion by *Trichoderma asperellum* | Department of Botany, St. Xavier’s College, Ranchi, IBRF Kolkata, CIU, New Delhi | Dr. Rupa Verma/August 2019 |
| 1. | 3rd World Clean Environment Summit 2019 | National/presented | Ecofriendly management of Black mold disease of the onion by *Trichoderma asperellum* | Department of Botany, St. Xavier’s College, Ranchi, IBRF Kolkata, CIU, New Delhi | Dr. Rupa Verma/August 2019 |
| 2. | Awareness, Adoption, and Promotion of the MOOCs on the SWAYAM Platform | National | Awareness, Adoption, and Promotion of the MOOCs | University Grant Commission, Eastern Regional Office, Kolkata | September 2019 |

**Seminar Details(2013 to 2020)**

**1.** Presented a project proposal at the DBT Sponsored Sensitization Workshop–2017 on “Promotion of Biotechnologies for Socio–Economic Upliftment of SC/ST, Rural Population of Jharkhand State” held at University Department of Botany, Ranchi University, Ranchi during 12th–13th May 2017. A.K. Choudhary (Convenor), A.S. Ninawe (Advisor, DBT, Govt. of India), and Jyoti Kumar (Organizing Secretary).

2. Presented a project proposal at the DBT Sponsored Sensitization Workshop–2017 on “Promotion of Biotechnologies for Socio–Economic Upliftment of SC/ST, Rural Poors, and Women in Bihar & Jharkhand State in India” held at the University Department of Botany in collaboration with University Centre of Bioinformatics, T.M. Bhagalpur University, Bhagalpur during 20th–21st Jan 2017. A.K. Roy (Convenor), A.S. Ninawe (Advisor, DBT, Govt. of India), and S.K. Choudhary (Organizing Secretary).

3. Participated in the Regional Consultative Youth Meet & Eco Next Lab on “Youth for Scientific Temper & Eco Solutions” jointly organized by the Indian Council of Agricultural Research and Dept. of Science and Technology, Govt. of India held at ICAR RCER, Research Centre, Ranchi from 17th to 18th June 2017 (Indian Council of Agricultural Research, ICAR Research Complex for Eastern Region, Research Center, Plandu, Ranchi–834010). Pamposh Kumar (Director, NCSTC, DST), A.K. Singh (Coordinator), B.K. Jha (Co–Coordinator) and A. Chakrabarti (Organizing Secretary).

4. Presented a poster at the National Conference on Biotechnology for Sustainable Development (BSD 2015), Centre of Excellence on Bioresources & Bioprospecting (TEQIP II), Department of BioEngineering, Birla Institute of Technology, Mesra, Ranchi (December 17–19, 2015). Dr. Kunal Mukhopadhyay (Convener, BSD 2015) and Dr. Ashish Sachan (Organizing Secretary, BSD 2015).

5. Attended OPENCON–2016, Ranchi on November 12, 2016. Abhijit Dutta (Convener).

6. Participated and Presented a poster in the National Symposium on Crop Path System Interactions Under Aberrant Weather and Perspectives for Crop Health Management (Twenty–Sixth Annual General Meeting of Indian Psychopathological Society, Eastern Zone), organized by Central Rained Upland Rice Research Station, (CRRI, ICAR), Hazarika–825301, Jharkhand, India (October 24–25, 2013). Dipankar Maiti (Organizing Secretary) and Mukund Variar (President, IPS, East Zone).

**Conference/Symposium/Workshop( from 2020 to 2023)**

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| --- | --- | --- | --- | --- | --- | --- |
| Sl. No. | Title | National/International | Organizer | Speaker | Duration | Year |
|  |  |  |  |  |  |  |
| 1. | Catalyzing Change in Education – The Essence of Future Readiness | International | Calcutta Management Association | Dr. Dilip Chandra Nath, VC Assam University, SilcharDr. D.J Chattopadhyay, VC Sister Nivedita University, KolkataDr. A.J Choudhury, VC Assam Downtown University, Guwahati | 2 hour | June 2020 |
| 2. | A Future Diagnostic Challenge | National | Government Holkar (Model Autonomous) Science College, Indore (M.P) |  | 2 days | June 2020 |
| 3. | Opportunities and Challenges in Preclinical Drug Discovery | International | NGSM Institute of Pharmaceutical Sciences, NITTE (DU), Mangaluru | Dr. K. Ishwar Bhatt,Professor, NGSMIPS, Dr.JaneMathew, Associate Professor, | 3 hour | July 2020 |
| 4. | Toxicology Studied and Career Prospective in Biotechnology | National | Madha Engineering College, Chennai | Mr. Vasanthan Muthiah Pillai, Ms. Priya | 2 Days | June 2020 |
| 5. | Nanotechnology in Biomedical Applications | National | Madha Engineering College, Chennai | Dr. M Hemchandtan, Dr. A. Baradeshawaram | 3 hours | June 2020 |
| 6. | Current Trends in the Application of HPLC and GC-MS Techniques for Food and Chemical Testing | International | Department of Food Technology, Haldia Institute of Technology | Mr. Prashant Basak, Mr. Ram Prasad Mondal | 2 hours | July 2020 |
| 7. | Molecular Characterization and Containment through Medicinal Plants and Ayurvedic Remedies | National | DNA Labs – A Centre for Applied Sciences (DLCAS), Dehradun, Uttarakhand | Dr. Narottam Sharma Scientist | 3 hours | May 2020 |
| 8. | Patent Mining: IPR Strategy and Patent Filing | National | Department of Biotechnology, Raja Balwant Singh Engineering Technical Campus, Agra | Dr. Vivek Kumar Shrivastava, Dr. Pankaj Gupta. Prof B. S. Kushwaha | 2 hours | June 2020 |
| 9. | Herb and Drug Interaction | National | Department of Biochemistry and Internal Quality Assurance Cell (IQAC) | Dr. Nupur Mehrotra | 2 hours | July 2020 |
| 10. | Mass spectrometry past and present-Emerging Technologies and strategies for Quality Management in Today’s clinical laboratories. | International | Lab roots your science Network. | Greg Cruikshank, Executive Officer Tracy Salcido, Vice president | 2 hours | July 2020 |
| 11. | Innovation and IPR | National | KSCST Bangalore | Shri Venkateswara College of Engineering Bangalore | 2 hours | 30 JUNE 2023 |
| 12.  | Bioinformatics for Drug Discovery | International | DECOD life | MSME Udyam CEO, Decode/BDD/356 | One month | 20.5.23-13.6.23 |
| 13 | Academic Integrity and prevention of plagiarism | National Workshop | Udaan, Educational Services | Udaan, Educational Services | Three Days  | 16.7.2023-18.7.2023 |

**Research Publications Details:**

1. Ethnological and Ethno-medicinal Importance of *Aegle marmelos* (L.) Corr (Bael) Among Indigenous People of India. Abhijit Dutta, Neeta Lal, Musarrat Naaz, Abhijit Ghosh and **Rupa Verma**, ***American Journal of Ethnomedicine*** (ISSN: 2348-9502), Volume 1, No. 5, pp. 290–312 (2014).
2. Control of *Ralstonia solanacearum* Infection in Tomato, Brinjal, and Capsicum by antibiotic sensitivity test. **Rupa Verma**, Abhijit Dutta, Ashok Kumar Choudhary and Sudarshan Maurya, ***Journal of Advanced Laboratory Research in Biology*** (ISSN 0976-7614), Volume V, Issue III, pp. 35-40 (2014).
3. Antimicrobial Potential of an Animal Peptide and some Antibiotics against a Dreaded Soil Born Phytopathogen *Ralstonia Solanacearum*. **Rupa Verma**, Ashok Kumar Choudhary, Abhijit Dutta, and Sudarshan Maurya, ***International Journal of Current Research*** (ISSN: 0975-833X), Volume 7, Issue 11, pp. 23015-23022 (November 2015).
4. Screening of Some Antibiotics against `*Ralstonia Solanacearum’* Causes Bacterial Wilt in Brinjal (*Solanum Melongena L*.) Plants obtained from Different Regions of Ranchi District. **Rupa Verma**, Ashok Kumar Choudhary, Abhijit Dutta, and Sudarshan Maurya, ***International Journal of Recent Scientific Research*** (ISSN: 0976-3031, DOI: 10.24327/IJRSR), Volume 8, Issue 11, pp. 21405-21408 (November 2017).
5. Effectiveness of Combination of Antibiotics on Different Isolates of ‘*Ralstonia solanacearum’* – A Dreaded Soil Born Phytopathogen and a Causative Agent of Bacterial Wilt.**Rupa Verma**, Abhijit Dutta, Ashok Kumar Choudhary and Sudarshan Maurya *in Applications of Biotechnology for Sustainable Development* (eds. Kunal Mukhopadhyay, Ashish Sachan and Manish Kumar), **Springer Nature Singapore Pte Ltd. 2017 (ISBN: 978-981-10-5537-9, DOI 10.1007/978-981-10-5538-6\_22, Library of Congress: 2017946955), pp. 191–201 (2017)**
6. *Trichoderma asperellum*, a Potential Fungal Biocontrol Agent Against
*Aspergillus niger*. **Rupa Verma**, Abhijit Dutta, Ashok Kumar Choudhary and Sudarshan Maurya, ***Journal of Advanced Laboratory Research in Biology*** (<https://e-journal.sospublication.co.in>, E–ISSN: 0976-7614), Volume 8, Issue 4, pp. 74-78 (2017).
7. Isolation and characterization of *Rhizobium* species from cultivated and wild leguminous plant **2019**, **Journal of Emerging Technologies and Innovative Research (JETIR)** Volume 6, Issue 6.www.jetir.org (ISSN-2349-5162).
8. Current Advances in Computational Biology of Lung Cancer **International Journal of Current Science Research and Review** ISSN: 2581-8341, Volume 05 Issue 01 January **2022**.DOI: 10.47191/ijcsrr/V5-i1-11, Impact Factor: 5.825 IJCSRR @ 2022.
9. \*Rupa Verma, Riya Kumari, Shashi Kumar1, Lady Rani, Jyoti Kumar, Purushottam Kumar (2022). Post Covid effect in Jharkhand: A Review. **International Journal of Advanced Research in Biological Sciences.** DOI:10.22192/hijabs Coden: IJARQG (USA)Volume9,Issue1.ISSN:2348 8069www.ijarbs.com<http://dx.doi.org/10.22192/ijarbs.2022.09.03.01>.
10. Current Incorporation and Impact of Computational Biology in Alzheimer's Disease Sadaf Naaz, Sweety Guria Rani, Purbasha Pati, Kumari Surekha Mahto, **International Journal of Health Sciences and Research** Vol.12; Issue: 3; **March 2022** Website: www.ijhsr.org Review Article ISSN:2249-9571, DOI: <https://doi.org/10.52403/ijhsr.20220345>.
11. Application of Recombinant DNA technology in Agriculture: A Review. International Journal of Advanced Research in Biological Sciences (A Peer Reviewed, Referred, Indexed and Open Access Journal) DOI: 10.22192/ijarbs Coden: **IJARQG** (USA) Volume 9, Issue 3 -202. DOI: <http://dx.doi.org/10.22192/ijarbs.2022.09.03.01>.
12. Rupa verma1\*, Sneh Megha1, Pushpa Kumari1, Riya Kumari1, Ladly Rani1, Kunul Kandir1 Submitted in Ranchi University Journal. **Review on soil Bacteria *Rhizobia* as Plant Growth Promoters.** RUJOST.VOL 7 no 1 ISSN 2319-4227.
13. Effect of 2,4 –Dichlorophenoxy Acetic acid (2,4-D) and Benzyle Amino Purine(BAP) concentration on callus induction in two traditionally grown grain legumes of Jharkhand *Cymopsis tetragonoloba* L. and *Vigna radiate* L.**RUJOST** ISSN 2319-4227, Vol 1, 2011 pp 65-67.
14. **Rupa Verma1\***, Mukul Agrawal1, Abhay Dundung1 and Ladly Rani(2022).Screening of Biosurfactant Production in Bacteria Isolated from Oil and Pesticide Contaminated Soil of Ranchi District. **Journal of Scientific Research.** Volume 66, Issue 4. DOI: 10.37398/JSR.2022.660405.issn 2070-0245
15. Humdah Qayyum, Shekhar Marandi, Kumari Surekha Mahto, Priyangulta Beck, Neha Kumai, Pooja Kumari, Dibya Kumari, Mona Priya Tirkey, **Rupa Verma** and Mukesh Nitin. *Arbuscular mycorrhizal fungi induced molecular response in citrus.* **International Journal of Current Research.** Vol. 14, Issue, 01, pp.20187-20199, January 2022 DOI: <https://doi.org/10.24941/ijcr.42909.01.2022>
16. Ayushi Poddar, Surya Kumar Ekka, Annie Jessica Toppo1, Anupriya, Apeksha Sharma, Nisha Rani Soreng, Aditi Kumari1,4, Priyangulta Beck, Dinesh Kumar1, **Rupa Verma** and Mukesh Nitin1\*. Recent Developmental Strategies Targeting Aging: An Integrative Approach Towards Aging Disorders and its Treatment. **Acta Scientific Biotechnology**. Volume 4 Issue 3 April 2023.
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**Future Plane**

If I get an opportunity to work in your institution, I will do my best and try to work in the area like…

 1. Promoting sustainable crop production

2. Improving plant productivity and quality

3. Reducing postharvest losses

4. Understanding how plants sense and respond to abiotic stress

5. Bioremediation

6. NGS analysis

7. molecular Docking

8. Drug Designing