Neelu Raina

Biotechnology Research Professional

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JOB OBJECTIVE

Research oriented professional targeting opportunities in **Biotechnology & Microbiology** with an organization of repute in **Education & Biomass Industry**; preferably in **India**

CONTACT INFORMATION

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EDUCATION

- **2021**: Ph.D. (Biotechnology) from Shri Mata Vaishno Devi University, Jammu & Kashmir
- **2013**: M.Sc. (Botany) from University Of Jammu, Jammu & Kashmir
- **2011**: B.Ed. from University Of Jammu, Jammu & Kashmir
- **2010**: B.Sc. from University Of Jammu, Jammu & Kashmir

CORE COMPETENCIES

- Research & Development
- Requirement Gathering
- Technical Writing
- Biofuel Production
- Biomass Conversion
- Statistical Analysis
- Teaching

PROFILE SUMMARY

- Highly analytical and motivated **Biotechnology** professional possessing extensive knowledge in research areas of **Lignocellulosic Biomass Conversion, Enzyme Activity Analysis, Biofuel Production, Microbiology, Isolation & Screening of Microbes, Statistical Analysis** and **Fermentation Techniques (SSCF, SHCF, CBP)**
- Gained practical experience of equipments like **Laminar Air Flow Unit, Autoclave, Optical Microscopy & Spectroscopy** and software **like Stat-Ease, SPSS & Origin**
- Served as a Peer Reviewer in SCI Journal "Environmental Progress and Sustainable Energy" having Impact Factor of 2.431
- Extensive knowledge of various concepts relating to biochemistry, enzyme activity analysis, fermentation and engineering processes involved in producing current and new therapeutic agents and the need for containment and validation of those processes
- Skilled in writing, revising or reviewing scientific reports, analytical protocols, analysis reports, specifications, and controlled forms as required
- Exposure in carrying out quality analysis; effective in finding gaps amongst the processes and to develop methods which are cost effective and beneficial on an industrial scale

ACHIEVEMENTS

- Published a Chapter "Use of Nanomaterials in Plants to Coup with Abiotic Stress Conditions" in the book Nanobiotechnology: Mitigation of Abiotic Stress in Plants in Springer Nature, 2021
- Appointed as Editorial Board Member in Journal of Energy Environmental & Chemical Engineering in 2021
- Published an Abstract "Comparative studies for bioethanol production using agricultural and forest wood residue" in SCI journal having Impact Factor of 5.079

SEMINARS & CONFERENCES

- Conference on "World Congress on Reproductive Health with Emphasis on Reproductive Cancers, Infertility and Assisted Reproduction & 30th Annual Meeting of the Indian Society for the Study of Reproduction and Fertility (ISSRF)", held in Shri Mata Vaishno Devi University, Jammu & Kashmir, 14th-16th February 2020
- Seminar on "Trends in Genomics and Proteomics", held in Shri Mata Vaishno Devi University, Jammu & Kashmir, 29th March 2019

SOFT SKILLS

- Collaborator
- Communicator
- Problem Solving
- Innovator
- Analytical
- Team-oriented

- Seminar on “Raman spectroscopy and Micro Array Printing”, held in Shri Mata Vaishno Devi University, Jammu and Kashmir, 20th August 2018

PAPER PUBLICATIONS

- Bhagat, Deepali, **Neelu Raina**, Amit Kumar, Meenu Katoch, Yugal Khajuria, Parvez Singh Slathia, and Preeti Sharma. "Probiotic properties of a phytase producing *Pediococcus acidilactici* strain SMVDUDB2 isolated from traditional fermented cheese product, Kalarei." **Scientific reports** 10, no. 1 (2020): 1-11 (Impact Factor=**4.379**)
- **Raina**, **Neelu**, Parvez Singh Slathia, and Preeti Sharma. "Response surface methodology (RSM) for optimization of thermochemical pretreatment method and enzymatic hydrolysis of deodar sawdust (DS) for bioethanol production using separate hydrolysis and co-fermentation (SHCF)." **Biomass Conversion and Biorefinery** (2020): 1-21 (Impact Factor=**4.987**)
- **Raina**, **Neelu**, Parvez Singh Slathia, and Preeti Sharma. "Experimental optimization of thermochemical pretreatment of sal (*Shorea robusta*) sawdust by Central Composite Design study for bioethanol production by co-fermentation using *Saccharomyces cerevi*siae (MTCC-36) and *Pichia stipitis* (NCIM-3498)." **Biomass and Bioenergy** 143 (2020): 105819 (Impact Factor=**5.061**)
- Slathia, Parvez Singh, **Neelu Raina**, Asha Kiran, Rizem Kour, Deepali Bhagat, and Preeti Sharma. "Dilute acid pretreatment of pine needles of *Pinus roxburghii* by response surface methodology for bioethanol production by separate hydrolysis and fermentation." **Biomass Conversion and Biorefinery** 10, no. 1 (2020): 95-106 (Impact Factor=**4.987**)

PERSONAL DETAILS

Date of Birth: 14th March 1988
Address: 299/11, Shakti Nagar, Jammu-180001, Jammu & Kashmir
Languages Known: English, Hindi & Kashmiri