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| **Dr. Jai Prakash, M.Sc., NET, GATE, Ph. D** | | | | | | | |
| CONTACT INFORMATION | Designation  Present  Address | :  : | Researcher Associate (RA)  Department of Environmental Microbiology (DEM), School for Environmental Sciences (SES), Babasaheb Bhimrao Ambedkar University (A Central University), Vidya Vihar, Raebareli Road,  Lucknow 226 025, Uttar Pradesh, India | | | | |
|  | Permanent Address | : | Village and Post- Chaura, District- Ballia, State- Uttar Pradesh, Pin code- 277502, India | | | | |
|  | Email ID | : | [jpmicrobio@gmail.com,](mailto:jpmicrobio@gmail.com) | | | |  |
|  | Phone | : | +91-8299575554 | | | |  |
|  | Profile Links | : | <https://www.researchgate.net/profile/Jai_Prakash24/publications> | | | | |
|  |  |  |  | | | | |
| ABOUT ME | **Father**: Shri Lalta Prasad | | | **Mother**: Lat. Sarshwati Devi | | | **Language**: English & Hindi |
|  | **DOB**: 15-01-1988 | |  | **Gende**r: Male | | | **Marital Status**: Marriage |
|  |  | |  |  | | |  |
| Research Area | Environmental and Agriculture Microbiology | | | | | | |
|  |  | | | | | | |
| EDUCATION | **Ph.D. Environmental Microbiology** | | | | | **October 23, 2013 - March 20, 2020** | |
|  | Babasaheb Bhimrao Ambedkar (A Central) University, Lucknow, Uttar Pradesh, 226 025,  India | | | | | | |
|  | Laboratory for Rhizosphere Microbiology and Sustainable Agriculture (LRMSA),  Department of Environmental Microbiology (DEM) | | | | | | |
|  | **PhD Thesis** | :**Development of bioformulation using beneficial plant-associated microorganisms for protection from fungal pathogens and yield improvement of *Stevia rebaudiana*** | | | | | |
|  | **Mentor** | : Prof. Naveen Kumar Arora (Head and Dean, Depart. of Environ. Science)  **Editor in Chief:** Environmental Sustainability, Springer Nature | | | | | |
|  | **Date of Thesis Submission**: April 23, 2019 | | | | **Date of Open Defence Viva**: March 17, 2020 | | |
|  | **M.Sc. Environmental Microbiology** | | | | **July 01, 2011 - July 04, 2013** | | |
|  | Babasaheb Bhimrao Ambedkar (A Central) University, Lucknow, Uttar Pradesh, 226 025,  India | | | | | | |
|  | FGPA: 6.789/10 (67.89%) Division: First Class | | | | | | |

**Curriculum Vitae March 1, 2022**

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|  | | **Dissertation** : | Physio-chemical and biological parameter analysis of river Ganga water in different region of Kanpur, Uttar Pradesh, India | | | |
|  | | **PG Diploma in Biotechnology**  **(Specialization in Tissue Culture)** | | | | **Completed: July 01, 2011** |
|  | | Completed from U. P. Technical University, Lucknow, | | | | Uttar Pradesh, India |
|  | | Percentage Obtained (%): 88.89 | | | | Division: First |
|  | | **B.Sc. (Botany, Zoology and Chemistry)** | | | | **Completed: July 20, 2007** |
| Veer Bahadur Singh Purvanchal University, Jaunpur, Uttar Pradesh India Pin code-, India | | | | | | |
| Percentage Obtained (%): 55.89 Division: Second Class | | | | | | |
| **RESEARCH & TEACHING EXPERIENCE** | | | | | | |
| **S.No** | **Position** | | | **Year** | **Place** | |
| 1 | Research Associate (RA) | | | Oct 2021-continue.. | Department of Environmental Science, BBA Central University Lucknow Uttar Pradesh, India | |
| 2 | Assistant Professor (Guest) | | | 2020-2021 | Central University of Karnataka, Karnataka India | |
| 3 | Assistant Professor (Guest) | | | 2019-2020 | Department of Environmental Microbiology, BBA Central University Lucknow Uttar Pradesh, India | |
| 4 | Assistant Professor (Guest) | | | 2018-2019 | Department of Environmental Microbiology, BBA Central University Lucknow Uttar Pradesh, India | |

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| NATIONAL LEVEL QUALIFICATION | * Qualified **National Eligibility Test (NET) - 2016** in Agriculture Microbiology Conducted by **Indian Council of Agricultural Research (ICAR)** - **Agricultural Scientist Recruitment Board (ASRB)** New Delhi, INDIA. * Qualified **Graduate Aptitude Test in Engineering (GATE) - 2013** in Life Science Conducted by **IIT Mumbai** – **MHRD**, New Delhi, India | | | | | |
|  |  | | | | | |
| SCHOLARSHIPS & FELLOWSHIPS |  | **University (UF)** for Research | **Fellowship**  Doctoral | October 23**,**  2013 to October  23, 2017 | | **University Grants Commission (UGC),** Government of India (GOI), New Delhi, INDIA |
|  | |  | |  | |  |
| AWARDS | **Young Scientist Award** | | | 2020 | From **ICUN CEM-Agro-Ecosystem Specialist Group** in National Conference on Environmental Sustainability: Innovations, Translational Dimensions and Way Forward, from **Society of Environmental Sustainability**, India | |
|  | **Outstanding contribution** | | | 2018 | From 1st **North Indian Science Congress (NISC), International Conference on Science and Technology for Sustainable Future**, BBA University, Lucknow, U.P., INDIA | |
|  | **Certificate of Appreciation** | | | 2017 | From 58th **Annual Conference of Association of Microbiologist of India**, International Symposium on  Microbes for Sustainable Development: Scope & Application (MSDSA, Allahabad, U.P., INDIA | |

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| MEMBERSHIP OF SCIENTIFIC SOCIETIES | | | Life Member | USA EIN: 47-  4803807 &  Alabama, USA: 1309/490No. | **Asian PGPR Society of Sustainable Agriculture,**  Auburn, Alabama, USA |
|  | | | Annual Member | No. L34112 | **Indian Science Congress Association (ISCA)**,  Kolkata (WB) India |
|  | | |  |  |  |
| RESEARCH  Interests  **Research**  **Supervision** | | | Plant Microbe Interaction,  Novel Bio formulation development for abiotic and biotic stress  Novel Metabolites identification from Plant and microbes  Investigation of pathogenesis mechanism  Bioremediation (Soil pollutants and Salinity)  Examination of plant metabolite pathway  **Students Supervised/Completed On-going**  M. Sc. 03 00 | | |
| **PUBLICATIONS** | | | | | |
| **RESEARCH & REVIEW PAPERS PUBLISHED** | **01**  **02**  **03**  **04** | **Prakash J**, Arora NK (**2022**). Augmentation of growth, nutrients uptake, and steviol glycoside biosynthesis in *Stevia rebaudiana* by *Bacillus safensis* under naturally infested soil borne pathogen. *Industrial Crops and Products* **(Under Review; Scopus & SCI**, **IF: 5.64, Elsevier).**  **Prakash J**, Arora NK (**2022**). Effect of *Bacillus safensis* on seed germination, Stevioside content and biosynthesis of steviol in *Stevia rebaudiana*. *Rhizosphere* (**Under Review; Scopus & SCI, IF: 3.07, Elsevier)**  **Prakash J**, Arora NK (**2021**) Novel antifungal metabolite by *Bacillus* *safensis* STJP *Alternaria alternata*, a leaf spot and leaf blight disease phytopathogen. *Antonywan Lewenhoek* **(Scopus & SCI, IF: 2.678, Springer Nature**)  Sunita K, Mishra I, **Prakash J**, Mishra J, & Arora NK **(2020**). Secondary metabolites from halotolerant plant growth promoting rhizobacteria for ameliorating salinity stress in plants. *ISSN:1664-302X****.*** *Frontier in Microbiology. 11-22; 2619***(Scopus & SCI, IF: 5.02)** | | | |
|  | **05** | **Prakash J**, Arora NK (**2020**). Development of *Bacillus safensis*-based liquid bioformulation to augments growth, stevioside content, and nutrient uptake in *Stevia rebaudiana.* ***ISSN:*** *1573-0972 World Journal of Microbiology and Biotechnology.*  *36:(8)1-13* **(Scopus & SCI, IF: 3.312, Springer Nature).** | | | |
|  | **06** | **Prakash J**, Arora NK (**2019**). Phosphate-solubilizing *Bacillus safensis* enhances plant growth and oil content in the *Mentha arvensis* L. *ISSN: 2190-5738****.*** *3-Biotech. 9(126):1-9* **(Scopus & SCI IF: 2.41, Springer Nature).** | | | |
|  | **07** | **Prakash J**, Arora NK (**2019).** Study of biocontrol activity of fluorescent pseudomonads against *Alternaria alternata*, isolated from rhizosphere locale of *Stevia rebaudiana.* ***ISSN:*** 2349-5162 *Journal of Emerging Technologies and Innovative Research***.** 6(3):632-638 (**JIF:2.46**) | | | |
|  | **08** | Mishra J**, Prakash J,** Arora NK (**2016**)**.** Role of Beneficial Soil Microbes in Sustainable Agriculture and Environmental Management. ***ISSN:*** *2320-6411 2320- 642X Climate Change and Environmental Sustainability. 4(2): 137-149*  <https://doi.org/10.1201/9780429284137> (**NAAS JIF: 4.87**). | | | |
|  | **09.** | Das AJ, Kumar R, Athar M, Rawat DS, Kumar M, Khan MA, **Prakash J** (**2013**). [Ethno medicinal study of threatened plants of Sonitpur district in Assam, North](https://www.researchgate.net/publication/320183458_ETHNO_MEDICINAL_STUDY_OF_THREATENED_PLANTS_OF_SONITPUR_DISTRICT_IN_ASSAM_NORTH_EAST_INDIA?_sg=7pSplrPbvqaybHIocAQ4yel-uKG9NjO4YWi47bEJSM3fG3vnqcsPYhtBFvhJSZ9RxvNB9iLWbM3RxQrBY7njGmNiufwAsAunAYu_uiVb.Gq5ZvIlWrfXojuW6o5kg5Ba6lEYydLqZNZRi4JNYWI88plSxXeRb_OuNnFiy69uhRlZ3epPSlT7pet8NGbSxDA) [East India.](https://www.researchgate.net/publication/320183458_ETHNO_MEDICINAL_STUDY_OF_THREATENED_PLANTS_OF_SONITPUR_DISTRICT_IN_ASSAM_NORTH_EAST_INDIA?_sg=7pSplrPbvqaybHIocAQ4yel-uKG9NjO4YWi47bEJSM3fG3vnqcsPYhtBFvhJSZ9RxvNB9iLWbM3RxQrBY7njGmNiufwAsAunAYu_uiVb.Gq5ZvIlWrfXojuW6o5kg5Ba6lEYydLqZNZRi4JNYWI88plSxXeRb_OuNnFiy69uhRlZ3epPSlT7pet8NGbSxDA) **ISSN**: 2230-8407 *International Research Journal of Pharmacy.* 4(1):145-150. | | | |

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| BOOK | **01.** | **Prakash J\*** (**2021**) Plant Growth Promoting Rhizobacteria in |
| CHAPTERS |  | Phytoremediation of Environmental Contaminants: Challenges and Future |
|  |  | Prospects. In *Bioremediation for Environmental sustainability: Toxicity,* |
|  |  | *Mechanisms of Contaminants Degradation, Detoxification and Challenges*. **Elsevier** |
|  |  | Science, USA**. doi:** 10.1016/B978-0-12-820524-2.00018-3 |
|  | **02.** | **Prakash J\*** (**2021**) Potential Application of Endophytes in Bioremediation of Heavy Metals and Organic Pollutants and Growth Promotion: Mechanism, Challenges and Future Prospects. **Elsevier**. *Bioremediation for Environmental Sustainability - Approaches to Tackle Pollution for Cleaner and Greener Society.*  Elsevier Science, USA. **doi:**10.1016/B978-0-12-820524-2.00017-1s |
|  | **03.** | Enespa, **Prakash J** and Prem Chandra (**2020**) Halophilic Microbes from Plant Growing Under the Hypersaline Habitats and Their Application for Plant Growth and Mitigation of Salt Stress. *Plant Microbiomes for Sustainable Agriculture*, Sustainable Development and Biodiversity.  ***Springer Nature***. 25. |
|  | **04.** | Arora NK, Verma M**, Prakash J,** Mishra J (**2016**) Regulation of Biopesticides: Global Concerns and Policies. *In book: Bioformulations: for Sustainable Agriculture.* Edition: 1, Chapter: 16, Publisher: ***Springer nature***  India. DOI:10.1007/978-81-322-2779-3\_16 |
|  | **05** | **Prakash J\*** and Sunita Mishra **(2022**). Role of Soil microbes in alleviating of climatic stresses in plants. *In book*: *Microbes and climate change: Implication and solutions.* **Publisher: *Elsevier****,* ***USA*** |
|  | **06** | **Prakash J\* (2022).** Biological Control of Plant diseases by Endophytes: Principals, Mechanisms of actions, Interactions, Challenges and Future Prospects. In Book Endophytic Association: What why and How. Publisher: ***ELSEVIER*,** Cambridge, MA, USA |

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| **SCIENCE** MAGAZINE **ARTICLES** | **01.** | **Prakash J,** Singh R, Arora NK (**2015**). *Stevia rebaudiana*: A herbal medicine & alternative source of calorie free sweetener. *Microbiology World*. Issue 9: Jan-Feb-2015, ISSN 2350-8774. |
|  | **02.** | Kumar A, **Prakash J,** Arora NK (**2015**). Biofertilizers: an alternative sources of  chemical fertilizer for sustainable crops in 21st century. *Microbiology World.* Issue 10, March-April, 2015, ISSN 2350-8774. |
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| **POSTER AND ORAL PRESENTATIONS**  **BEST ONE** | **Poster** Presentation entitled “Role of *Bacillus safensis* for controlling *Alternaria alternata,* a phytopathogen of *Stevia rebaudiana*”. | 58th Annual International Conference of Association of Microbiologists of India and Int. Symposium on Microbes for Sustainable Development: Scope & Applications | Organized By Babasaheb Bhimrao Ambedkar University (BBAU), Lucknow (UP) INDIA, **From**  November 16-19,  2017 |
|  | **Oral** Presentation entitled “Development of paneer whey based bioformulation by utilizing *Bacillus safensis* NAIMCC-B-02323 to enhance growth, stevioside content, and  nutrient uptake of *Stevia rebaudiana* L. | “International Conference on Environmental Sustainability: Innovation, Translational, Dimensional, and Way Forward” | Organized By Babasaheb Bhimrao Ambedkar University (BBAU), Lucknow U.P.,INDIA, **From**  February 11-12, 2020 |
|  |  |  |  |
| WEBINAR ATTENDED  **BEST ONE** | Participated in **International Webinar on COVID-19 and Environmental Linkage**  Organized By Babasaheb Bhimrao Ambedkar University (UP) in Association with Society for Environmental Sustainability (UP) India and **Springer Nature** on June 29, 2020 | | |
|  |  | | |
| SCIENCE CONGRESS ATTENDED  **BEST ONE** | Participated in **Indian Science Congress - 2019 (ISC-2019)** Organized By Lovely Professional University (LPU), Jalandhar (PB) INDIA from January 3 - 7, 2019 | | |
|  |  | | |
| CONFERENCE ATTENDED  **BEST ONE** | Participated in International Conference on **Contemporary Advances of Science and Technology (IC-CAST-2015)** Organized By Banaras Hindu University (BHU), Varanasi (UP) INDIA in Association with Japan Society for Promotion in Science (JSPS) from  August 07 - 09, 2015 | | |
|  |  | | |
| SYMPOSIUM ATTENDED  **BEST ONE** | Participated in National Symposium on **Building an Ecologically Sustainable Society** Organized By Babasaheb Bhimrao Ambedkar University, Lucknow (UP) INDIA on August 16, 2013 | | |

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| **FDP AND REFRESHER COURSE** COMPLETED  **BEST ONE** | Faculty Development Program  on **Environment, Biodiversity, and Disaster Risk Management** | | Five Days (March 02-  06, 2020) | Organized by **National Institute of Disaster management (NIDM), New Delhi** and From Department of Environmental Science, BBA University, Lucknow. UP., India |
|  |  | |  |  |
| **SUMMER AND WINTER SCHOOL, WORKSHOPS, SHORT COURSES &**  **TRAININGS** COMPLETED | **Gene Cloning and Its Expression, to produce Genetically Modified Organisms** | Seven Days Workshop (November 20 - 26,  2017) | | From **CytoGeneTM** and **Maharishi University of Information Technology (MUIT)**, Lucknow (UP) INDIA |
|  | **Molecular Approaches for Plant disease diagnostics and Resistance mechanism** | ICAR–Sponsored Short Course (November 03 -  12, 2016) | | From **Department of agricultural Biotechnology, Assam Agricultural University,** Jorhat- 13, Assam, India |
|  | **Chromatography** | Four Days  Workshop (January, 05 – 08,  2016) | | From **Department of Botany (Centre for Advanced Study), University of Calcutta,** Kolkata, West Bengal, India |
|  | **Recent Advances in Mass Production on Biological Control Agents** | ICAR – Sponsored Short Course (September, 01 -10,  2015) | | From I**CAR- National Centre for Integrated Pest Management, IARI, Pussa, New** Delhi, India |
|  | **SEM, FTIR, FPLC, and**  **Ion chromatography** | Hands on training Programme (February 18 -20,  2015) | | From **University Scie Instrumentation Centre, Babasah Bhimrao Ambedkar Univers**  **Lucknow**, **U.P., India** |

## INDUSTRIAL **TRAININGS**

Practical Training in

# Alcohol/beverages Production

Practical Training in **Quality assessment of Dairy products**

Fourteen days (April 01-14, 2011)

Ten days (January 04- 14 , 2011)

# From K.M.G. Sugar Mills Ltd., Motinagar, Faizabad

U.P. India

From Gov. dairy Industry**, Sahadatganj, Faizabad**

U.P. India

**SKILLS** **Scientific and Technical Skills:**

***In-silico Techniques/ bioinformatics techniques***

* Instrumentations: Spectrophotometer, TLC, HPLC, PCR, Real time expression analysis, expression of different genes/pathways involved in metabolites synthesis in plants, isolation and characterization of gene from antagonistic bacteria and pathogenic fungi to cause pathogenicity, isolation and purification of RNA, DNA, enzymes, resistance gene isolation from plants
* *BLAST, CLUSTALW, Phylogram, Primer designing. Phylogenetic tree analysis*

## **INTERESTS &**

AVOCATIONS

Reading scientific magazine, Listening Music; and Cooking Delicious Foods

CO-CURRICULAR

ACTIVITIES

Environmental Photography; Plantation, Yoga; Exercise; Bicycling; and, Gardening

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| --- | --- | --- |
| **REFERENCES** | | |
| **NATIONAL** | **Prof. Naveen Kumar Arora**  PhD, FISB, Dean  Editor in chief: Environmental Sustainability, Springer Nature | Department of Environmental Sciences, School for Environmental Sciences, Babasaheb Bhimrao Ambedkar (Central) University, Vidya Vihar Raebareli Road, Lucknow, Uttar Pradesh, 226 025 INDIA  **E-mail:** [nkarora.bbau@gmail.com](mailto:nkarora.bbau@gmail.com)  **Contact number: +91-9935383663** |
| **Dr. Ramnaresh Bhargava**  PhD,  Assistant Professor | Department of Environmental Microbiology, Babasaheb Bhimrao Ambedkar (Central) University, Vidya Vihar Rae Bareli Road, Lucknow, Uttar Pradesh, 226 025 INDIA  **E-mail:** bhargavanbbau11@gmail.com  **Contact number: +91-9918919369; 9793165547** |
| **Dr. Pankaj Kumar Arora**  Assistant Professor  Associate Editor: Frontier in Microbiology  Acedemic Editor: PLOS ONE  Associate Editor: Frontier in Agroecology and Landuse Systems  Editorial board member: Scientific Reports, Nature | Department of Environmental Microbiology, BBA Central University, Lucknow, Uttar Pradesh, India  **E-mail:** arora484@gmail.com  **Contact number: +91-8630645983** |
|