**BIO DATA**

**Name Dr. Brajeshwar Singh**

**Present Position Associate Professor (Microbiology)**

**Division of Microbiology**

**Faculty of Basic Sciences, SKUAST-Jammu**

**Educational Profile**

* **M.Sc. (Ag) Mycology and Plant Pathology**

Institute of Agricultural Science, **Banaras Hindu University**

Varanasi, Uttar Pradesh

* **Ph.D. (Plant Pathology), SKUAST-Jammu**
* **Two years’ Experience in Microbial Biotechnology at IIIM-Jammu, CSIR**

## Specialization and areas of interest Microbial biotechnology/ Industrial Microbiology

**Working Experience:**

* Teaching and Research: **15 (Fifteen) years**

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| **Designation** | **Institution & Place of posting** | **Period** |
| **Junior Research Fellow** | IIIM-Jammu, CSIR | 2000-2002 ( 2 yrs) |
| **Junior Scientist/Assistant Professor** | Regional Horticulture Research Sub-Station, Bhaderwah, Doda, Jammu | 2007 to 2013 (06 yrs) |
| **Assistant Professor**  **(Microbiology)** | Division of Microbiology, Faculty of Basic Sciences | 2013 to 2019 |
| **Associate Professor & Head (Microbiology)** | Division of Microbiology, Faculty of Basic Sciences | 2022 |

**Important Job Profiles Performed:**

* Institution and establishment of Division of Microbiology and Course curriculum development for M.Sc. & Ph.D (Microbiology)
* Nodal Officer Information/ICAR for Faculty of Basic Sciences
* Worked as Academic Incharge, Laboratory Incharge, Store Officer, Seminar Incharge and member of various University/State/National level committees from time to time.

**Teaching /Academics Experience**

* + - 1. **Guided 08 M.Sc. Microbiology students as major advisor**
      2. **Guiding 02 M.Sc. Microbiology students as major advisor**
      3. **Guiding 04 Ph.D Microbiology students as major advisor**
      4. **Minor advisor of 15 M.Sc. students**
      5. **Minor advisor of 07 Ph.D.. students**
      6. **Student Guidance as Member (UG) 15**
      7. **Regularly conducting Industrial exposure tours for Masters and Graduate classes.**
      8. **Taught 09 UG courses, 38 PG courses during last three years**
      9. **Contributing Ph.D ,M.Sc.,B.Sc. Biotechnology and B.Tech. Biotechnology program as course instructor**

**Teaching courses** at UG, PG and Doctoral level from past **09 years** pertaining to Microbiology, Plant Pathology and Biotechnology

**Acting as Minor advisors in subjects viz. Soil Science, Biotechnology, Fruit Sciences, Agronomy, Plant Pathology, Vegetable Sciences and Floriculture**

**Inter institutional collaborations (National/International):**

1. 02 Students from **Central University Jammu** are working for Doctoral research under my supervision
2. Included Dr Dinesh Kumar, ARS, Professor (Biotechnology) & Dean, Academic, **Central University of Haryana** in Student Advisory
3. Guided 02 student from **Cluster University, Jammu** for Project reports
4. Examiner for **Jammu University, Central University Jammu, Lovely Professional University, Punjab Agriculture University, IIIM- Jammu, CSIR**

**PATENT: Biotransformation process for the preparation of diosgenin from dioscin No.** IN325414 [India] Somal Priti; Koul Surrinder; Taneja Subhash Chandra; Rizvi Syed Mustafa; Arjuna Anania; Singh Jasbir; Naik Surabhi; **Singh Brajeshwar**; Hassan Riyaz Ul Syed; Verma Vijeshwar; Khajuria Ravi Kant; Qazi Ghulam Nabi **Date of Issue: 20-11-2019**

**Externally funded project Research Projects Handling As PI & Co-PI:**

|  |  |  |  |  |
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| **S.No** | **Title of project** | **P.I/Co.P.I.** | **Funding agency** | **Budget** |
|  | Outreach of technologies for temperate fruits | **Co.P.I.** | **ICAR (Networking mode)** | **Rs. 2.50 cr** |
|  | Bioprospecting of Medicinal Plants in India | **Co.P.I.** | **CSIR (Networking mode), IIIM-Jammu** | **Rs. 1.50 cr** |
|  | Evaluation of NIMITZ a new compound in seed potato crop from | **P.I** | **ADAMA, Hyderabad Pvt. Ltd.** | **Rs. 9.08 Lac** |
|  | Bio efficacy data (field trial) for a biopesticide against Fusarium in Gladiolus | **P.I** | **CSIR-NBRI, Lucknow** | **Rs. 3.00 Lac** |
|  | Evaluation of Fluensulfone 480 EC against Root Knot nematodes (*Meloidogyne*spp.) on Capsicum under open field through Drench | **P.I** | **ADAMA, Hyderabad Pvt. Ltd.** | **Rs. 9.90 Lac** |
|  | Upscaling the Use Potential of Native Agriculturally Beneficial Microbes through Demonstrations and Capacity Building in Himalayas | **Co.P.I.** | **DBT** | **Rs. 1.06 cr** |
|  | Evaluation of NIMITZ 480 EC (Fluensulfone 480 EC) against Root Knot nemtaodes (*Meloidogyne* spp.) on Tomato in open field through Drench application | **P.I** | **ADAMA, Hyderabad Pvt. Ltd.** | **Rs 10.00 Lac** |
|  | Evaluation of our new nematicide NIMITZ 480 EC ( Fluensulfone 480 EC) against Root Knot nematodes (*Meloidogyne*spp.) on Cucumber under open field through Drench  application | **P.I** | **ADAMA, Hyderabad Pvt. Ltd.** | **Rs 10.00 Lac** |

**Research Projects University Funded:** 04 As P.I and 10 as C0-P.I.

**Books:**

1. **The Blackberry-An Underutilized Himalayan Fruit**. 2013 Kour, K., Sharma, R.M., **Singh.,B**., Bandral, J.D and Kotwal, N. Yak book publishers, Pacca Danga, Jammu. pp 57.
2. **Cell and Plant Physiology**. 2019. Gurdev Chand and **Brajeshwar Singh**. Jaya Publishing House, Delhi, India. ISBN: 978-93-87590-65-6. Pp 175.

**Publications:**

1. No. of Research papers published in refereed research journals: **17 (Seventeen)**
2. No. of Book Chapters Published in Edited Books:  **05 (five)**
3. No. of Abstracts/ Full length papers published in conference proceedings: **110 (One hundred ten)**

**Research Publications:**

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| **S. No.** | **Title** | **Journal** | **NAAS rating 2022** |
|  | Corm Rot of Saffron: Epidemiology and Management. 2021. Vishal Gupta , Akash Sharma , Pradeep Kumar Rai , Sushil Kumar Gupta , Brajeshwar Singh , Satish Kumar Sharma , Santosh Kumar Singh , Rafakat Hussain , Vijay Kumar Razdan , Devendra Kumar , Shazia Paswal , Vinod Pandit and Rohit Sharma. **Agronomy** 2021, 11, 339. | **Agronomy** | **9.42** |
|  | First Report of Rust on *Osmorhiza Longistylis* Caused by *Puccinia Pimpinellae* in India: [B. Singh](http://apsjournals.apsnet.org/action/doSearch?action=runSearch&type=advanced&result=true&prevSearch=%2Bauthorsfield%3A(Singh%2C+B.)), [C. S. Kalha](http://apsjournals.apsnet.org/action/doSearch?action=runSearch&type=advanced&result=true&prevSearch=%2Bauthorsfield%3A(Kalha%2C+C.+S.)), [V. K. Razdan](http://apsjournals.apsnet.org/action/doSearch?action=runSearch&type=advanced&result=true&prevSearch=%2Bauthorsfield%3A(Razdan%2C+V.+K.)), and [C. Uma Maheswari](http://apsjournals.apsnet.org/action/doSearch?action=runSearch&type=advanced&result=true&prevSearch=%2Bauthorsfield%3A(Maheswari%2C+C.+Uma)); *Plant Disease* PP 1482, Nov 2011, Volume 95, Number 11. | **Plant Disease** | **10.44** |
|  | First Report of Walnut Canker Caused by *Fusarium incarnatum* from India : 2011. B. Singh, C. S. Kalha, V. K. Razdan, and V. S. Verma; *Plant Disease*, pp 1587 ,95 (12). (ISSN: 0191-2917) | **Plant Disease** | **10.44** |
|  | Individual and combined effects of berberine and santonin on spore germination of some fungi. Singh, B., J.S. Srivastava, R.L. Khosa and U.P. Singh, 2001. ***Folia Microbiologica*** (Praha), 46: 137-142. | **Folia Microbiologica** | **8.10** |
|  | Selection and characterization of elite walnut (*Juglans regia* L.) clone from seedling origin trees in North Western Himalayan region of India.**2014**. Radha Mohan Sharma1, Kiran Kour, **Brijeshwar Singh**, Sangita Yadav, Neeraj Kotwal, Jai Chand Rana and Rajneesh Anand. ***Australian Journal of Crop Science***. 8(2): pp 257-262. | **Australian Journal of Crop Science** | **0.69** |
|  | Evaluation of garden pea genotypes for yield and screening against downy mildew incidence under mid hill conditions of Jammu region.2013. Anil Bhushan, **B. Singh,** A.K.Singh and Anjani Kr. Singh: ***Indian journal of Plant Genetic Resources****. 26(2): 171–172* | **Indian journal of Plant Genetic Resources** | **5.54** |
|  | Analysis and utilization of genetic diversity of ‘*Ambri*’ apple (*Malus* × *domestica* Borkh.) in Jammu region. 2016. R.M. Sharma, K. Kour, Julie D. Bandral, **B. Singh**, J.C. Rana\*\*\* and M. Jamwal. *Indian J. Hort.* 73(1), March 2016: 1-7. (0972-8538) | **Indian J. Horticulture** | **6.16** |
|  | Selection and characterization of elite walnut (*Juglans regia* L.) clone from seedling origin trees in North Western Himalayan region of India.2014. Radha Mohan Sharma, Kiran Kour, **Brijeshwar Singh**, Sangita Yadav, Neeraj Kotwal, Jai Chand Rana and Rajneesh Anand. *Indian Journal of Agricultural Sciences*8(2):257-262. | **Indian Journal of Agricultural Sciences** | **6.37** |
|  | Raina,D., **Singh,B**.,Bhat,A.K.,Satti,N.K. and Singh,V.K. 2018.Antimicrobial activity of endophytes isolated from *Picrorhiza kurroa. Indian Phytopathology*, 71(1), 103-113 | **Indian Phytopathology** | **5.95** |
|  | Probiotic Potential of Lactic Acid Bacteria Isolated from Different Sources of Food and Milk Products.2022. Indian J Agric Biochem 35 (1), 71-78. | **Indian J Agric Biochem** | **4.38** |
|  | Kour,S, **Brajeshwar Singh**, Diksha raina and Akanksha rathore. 2018. Bioprospecting thermophilic bacteria from geothermal springs of Jammu division for industrial enzymes. Researcher: A Multidisciplinary journal, (02) 35-46. | **Researcher: A Multidisciplinary journal** | **1.00** |
|  | Isolation and Screening for Novel Bioactive Molecules from Endophytes Associated with *Arisaema erubescens* (Wall.) Shott 2021. Akanksha Rathore , **Brajeshwar Singh** , Diksha Raina , Sneahpreet Kour , Upma Dutta , Ak Singh And Gyanendra Kumar Rai *Indian J Agric Biochem* 34 (1), 85-90 | **Indian J Agric Biochem** | **4.38** |
|  | Exploring Actinobacteria from North-Western Himalayas in Quest of Novel Pharmacophores. 2021 **Brajeshwar Singh**, Vironika, Hibbah Javed, Ankita, Upma Dutta and Gyanendra Kumar Rai *Indian J Agric Biochem* 34 (2), 205-208 | **Indian J Agric Biochem** | **4.38** |

**Research papers presented at International/ National conferences/ seminars: 75 (Seventy-five)**

**Participation in workshop/ training/ winter/ summer school: 09 (Nine)**

**Extension Activities:**

* No. of lectures delivered as a resource person: **25 (Twenty-five)**
* TV talks delivered: **07 (Seven)**
* T&V resource person: **05 years**

**Academic Responsibilities/ membership held**

* **Life Membership of professional/ scientific/ academic societies:**

1. Indian Phytopathological Society
2. American Phytopathological Society
3. Association for advancement Pest Management in Horticultural Ecosystem (AAPMHE)
4. Association Of Microbiologists of India (Ami), IARI, New Delhi
5. Society for Community Mobilization for Sustainable Development, IARI, New Delhi

**Trainings undergone for Academic strengthening**

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| 1. **Attended National training” Meta-Omics based method and techniques for understanding microbial community function”** | 10 days | 10th-19th Dec 2019 at ICAR-NBAIM Mau |
| 1. **Training on Genomics and diagnosis of emerging phytopathogens in Indian agriculture** | 21 days | OCT 3-23, 2012, Division of Plant pathology IARI, New Delhi, |
| 1. **Capacity building programme on polyphasic microbial identification: methods and applications** | 10 days | March 5-14, 2013 NBAIM, Mau, UP |

**Human resource Development:**

* + - * 1. Conducted 07 days training for Scientists, students and entrepreneurs on Recent developments in Microbial diagnostics, w.e.f. 23rd to 29th of August, 2022
        2. Organised International Conference on Climate Change & its impact on global food security and sustainability of agriculture, 23-24 Nov 2019 By Mahima Research Foundation & Social welfare, BHU, Varanasi as National Advisory Member
        3. Organised 10 days ICAR, New Delhi sponsored training on “ Recent advances in production of biofertilizers and biopesticides” on Nov 13-22nd ,2019 as Course Coordinator.

**Member of Editorial Board of refereed research journals**: 02 (two)

**Crop Varieties Released as Contributor:**

* + 1. Walnut GL0109 (BHUSHAN) 2021
    2. Broad bean (RK-01) 2021
    3. Radish (CR-45) 2021

**New courses /curriculum developed** **Designed and Started**

1. **M.Sc. Microbiology (2012)**
2. **Ph.D. Microbiology (2019)**