

CURRICULUM VITAE



Dr. HEMANT DASILA

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OBJECTIVE

To accept the challenges and achieves success in all sphere of the profession by holding a position with responsibility in an organization and explore efficient innovative ideas.

AREA OF INTEREST

Agricultural Microbiology & Biotechnology, Agricultural Data Interpretation and Analysis, Microbial Genomics and Proteomics, Microbial Metabolism.

EDUCATIONAL QUALIFICATIONS

Qualification	Board/ University	Institution	Division	Percentage
Ph.D. Microbiology (Major) Molecular Biology & Biotechnology (Minor)	GBPUAT Pantnagar	C.B.S.H.	I st	73.4% (course work)
M.Sc. (Microbiology)	GBPUAT Pantnagar	C.B.S.H.	I st	73.30%
B. Sc. (Biotechnology)	Kumaun University Nainital	Kumaun	I st	67.40 %

PRESENT STATUS

- **Assistant Professor, Department of Microbiology, Akal College of Basic Sciences, Eternal University, Baru Sahib Himachal Pradesh, India. (2022-Present)**
- **Major Guide (Advisor)- 1 MSc Microbiology Student**

ADDITIONAL QUALIFICATIONS

- **Certified Quality Control programme of Life Sciences Sector Skill Development Council (LSSSDC-2021)** under Skill India Programme of Government of India.

RESEARCH CURRICULUM

- Ph.D. Thesis (**2021 Thesis Submitted**) entitled, “**Combined in vitro/in vivo approach for screening, selection and optimization of phosphate solubilizing bacteria (PSB) and its application to enhance agronomic performance of wheat**” under the supervision of **Dr. Manvika Sahgal**, Senior Research Officer (S.R.O), Department of Microbiology, CBSH, G.B. Pant University of Agriculture & Technology, Pantnagar-263145, Uttarakhand.
- M.Sc. Thesis (2016) entitled, “**Assessment of *Pseudomonas fluorescens* AS15 inoculation on growth and establishment of *Dalbergia sissoo* nursery**”, under the supervision of **Dr. Manvika Sahgal**, Senior Research Officer (S.R.O), Department of Microbiology, CBSH, G.B. Pant University of Agriculture & Technology, Pantnagar-263145, Uttarakhand.

PARTICULARS OF EXPERIENCES

- **Post Graduate Teaching Assistant for two courses “Microbial Genetics (BBM-510)”**; “**Application of Microbial Methods (BBM-610)**” at the Department of Microbiology, College of Basic Sciences & Humanities, **G.B. Pant University of Agriculture & Technology, Pantnagar-263145, Uttarakhand, INDIA.** (IInd Semester, 2017-2018 to IInd Semester, 2018-19)
- **Graduate Teaching Assistant for three courses “Microbiological Techniques (BBM-300)” and “Introductory Microbiology (BBM-300)” and “Application of Microbial Methods (BBM-610)”** at the Department of Microbiology, College of Basic Sciences & Humanities, **G. B. Pant University of Agriculture & Technology, Pantnagar-263145, Uttarakhand, INDIA.** (IInd Semester, 2014-15 to IInd Semester, 2015-16).

AWARDS

- **NET (Agricultural Microbiology)-2019**
- **GATE-Life Science-2019: AIR (All India Rank: 662)**
- **GATE-Life Science-2018: AIR (All India Rank: 1229)**
- **AMI (Association of Microbiology of India) Award; International Conference, Lucknow-2017.**

MEMBERSHIPS

- Annual membership of Association of Microbiologists of India; No. 2633/2010

TECHNICAL EXPOSURE

Microbiology:

- All the basic techniques in microbiology including isolation, handling, and maintenance of bacterial and fungal strains.
- Aseptic techniques, sterilization, inoculation, and incubation.
- Colony counting, hemocytometer counting, Simple and differential staining, etc.
- Simple and Compound Microscopy, Lyophilization, Sonication.
- UV-VIS Spectrophotometer, Centrifugation.

Biochemical Techniques

- Biochemical Characterization of microbial cultures, Qualitative and quantitative estimation of carbohydrates, proteins and fats.

Molecular Biology & Biotechnology

- Genomic material isolation from Bacteria/Fungi (DNA, RNA or Plasmid)
- PCR
- Agarose gel electrophoresis and documentation,

Statistical tools:

- ANOVA, Principal Component Analysis, t-test, chi-square test, RBD, Correlation and Regression coefficient, Principal Component Analysis (PCA), Principal Coordinate analysis (PCoA), Diversity Indices etc.
- **Software:** MS-EXCEL
 - SPSS
 - ORIGIN
 - R-Software
 - Digital Expert
 - Past-04

PUBLICATIONS

- **Patent- 1**
- **Review Paper-2**
- **Research Papers –9**
- **Book Chapters -9**
- **Conferences- 3**
- **Popular Article- 1**

Patent

1. Manisha, Tiwari H., Nautiyal M., Kumar D., Kumar A., **Dasila H.**, Maithani D., Jain G (2023) “A liquid biodegradable fertilizer material made of biological components”. Indian Patent.

Reviewer

- Present reviewer in “**Journal of Applied Biology and Biotechnology**” (UGC care Journal).

Research Papers

1. **Dasila, H.**, Sah, V. K., Jaggi, V., Kumar, A., Tewari, L., Taj, G and Sahgal, M (2023). Cold tolerant Phosphate solubilizing Pseudomonas strains promote wheat growth and yield by improving soil phosphorous (P) nutrition status. *Frontiers in Microbiology*, , 14, 515. (IMPACT FACTOR 6.01, NAAS RATING-12.6).
2. Suyal, D.C., Gola, U., Kour, S., Kaur, T., Perveen, K., Bukhari, N. A., Maithani D, **Dasila, H** and Singh, M (2023). Prokaryotic diversity and community structure in the rhizosphere of Lantana weed (*Lantana camara* L.). *Frontiers in Plant Science*, 14, 1364. (IMPACT FACTOR 6.62, NAAS RATING-13.2).
3. **Dasila H.**, Sah V.K., Jaggi V., Sahgal M (2022) “Impact of Phosphate Solubilizing Bacteria on Soil Enzyme Activity and Plant Vigor in Four Wheat Genotype” **Indian Journal of Ecology** 49(4): 1341:1350. (NAAS RATING-5.79).
4. **Dasila, H.**, Sah, V. K., Jaggi, V., & Sahgal, M. (2022). Phosphate solubilizing bacteria (PSB) a potential tool to enhance soil health and wheat vigor parameters in pot trial experiment. **Pharma Innovation** 11(3):1829-1835. (NAAS RATING-5.23).
5. **Dasila, H.**, Joshi, S., Sahgal, M., Tiwari, (2018) Talaromyces Sp. are associated with Shisham nursery disease in Pantnagar, A Terai region of Western Himalyas. **Ecology Environment and Conservation**, 24(3), 556-560. (NAAS RATING-5.23).
6. **Dasila, H.**, Anjul, R., Damini, A. R., Manvika, S., & Salil, T. (2018). Interaction between *Dalbergia sissoo* Roxb. and *Pseudomonas koreensis* AS15 Strain is Cultivar Specific. **Inter J Curr Microbiol App Sci**, 7(10), 297-306. (NAAS RATING-5.38).
7. Srivastva P., Jaggi P., **Dasila H.**, Sahgal M (2020) Identification and characterisation of siderophore positive Pseudomonas from North Indian Rosewood (*Dalbergia sissoo*) roxb. forest ecosystem. **International Journal of Agricultural Science and Research.**, 10(4):239-256. (NAAS RATING-3.6).

8. Jaggi V., Joshi S., **Dasila H.**, Sahgal M., (2020) Functional and molecular characterization of wheat rhizosphere bacteria and their antagonistic activity against wheat foliar blight pathogens. **Journal of Experimental Biology and Agricultural Sciences.**, 8(5):605-620.
9. Himanshi, D.P., **Dasila, H.**, & Sahgal, M. (2019). Assessment of Antifungal Efficacy of Green Synthesized Sulphur Nanoparticles Using Ocimum Basilicum Leaves Extract. **Journal of Emerging Technologies and Innovative Research.**, 6(5):2349-2358.

Review Paper

1. Upadhayay, D., Kumar, V., Chitara, M. K., Mishra, D., Jha, M. N., Jaiswal, A., Maithani D, **Dasila H**, and Patel, V (2023). Synergistic impact of nanomaterials and plant probiotics in agriculture: A tale of two-way strategy for long-term sustainability. **Frontiers in Microbiology**, 14, 835. (IMPACT FACTOR 6.01, NAAS RATING-12.6).
2. Maithani, D., Sharma, A., Gangola, S., Bhatt, P., Bhandari, G and **Dasila, H.** (2022). Barnyard millet (*Echinochloa* spp.): a climate resilient multipurpose crop. **Vegetos, Springer** 1-15. (NAAS-5.27)

Book Chapters

1. **Dasila H.**, Joshi D., Shubhi V., Maithani D., Kumar A., Suyal N., Kumar N and Suyal D (2023) Hazardous waste: impact and disposal strategies. *Developments in microbiology and Biotechnology*. **Elsevier**.
2. **Dasila, H.**, Maithani, D., Srivastava, P., & Kabdwal, M. (2023). Bioremediation: A Sustainable Way for E-waste Management. In *Microbial Technology for Sustainable E-waste Management* (pp. 113-126). Cham: **Springer International Publishing**.
3. Upadhayay V., Maithani D., **Dasila H.**, Taj G and Singh A (2023). Microbial services for mitigation of biotic and abiotic stresses in plants. *Developments in microbiology and Biotechnology*. **Elsevier**.
4. Debbarma, Prasenjit, Deep Chandra Suyal, Saurabh Kumar, Divya Joshi, Manali Singh, Jyoti Rajwar, Balwant Rawat, **Hemant Dasila**, Damini Maithani, and Ravindra Soni (2023). "Bioremediation of E-waste Through Microbial Exopolysaccharides: A Perspective." In *Microbial Technology for Sustainable E-waste Management*, pp. 245-257. Cham: **Springer International Publishing**.

5. **Dasila H.**, Joshi S., Sahgal M (2020) Dissecting Structure and Function of Plant Rhizomicrobiome: A Genomic Approach. **Rhizosphere Microbes**.
6. **Dasila, H.**, Maithani, D., Suyal, D. C., and Debbarma, P. (2022). Cold-Adapted Microorganisms: Survival Strategies and Biotechnological Significance. In **Survival Strategies in Cold-adapted Microorganisms** (pp. 357-378). **Springer**, Singapore.
7. **Dasila, H., Joshi, S., & Ramola, S (2022)**. Soil Microbial Enzymes and Their Importance, Significance, and Industrial Applications. In **Industrial Applications of Microbial Enzymes** (pp. 191-205). **Taylor and Francis.**, CRC Press.
8. Debbarma, P., Joshi, D., Maithani, D., **Dasila, H.**, Suyal, D. C., Kumar, S., & Soni, R. (2021). Sustainable Bioremediation Strategies to Manage Environmental Pollutants. In *Removal of Refractory Pollutants from Wastewater Treatment Plants* (pp. 267-288). **CRC Press**.
9. Maithani, D., Sharma, A., **Dasila, H.**, Tiwari, A., & Upadhyay, V. K. (2023). 16 Nanotechnology for Crop Improvement and Sustainable Agriculture. *Advances in Nanotechnology for Smart Agriculture: Techniques and Applications*, 323. **CRC Press**

Confrences:

1. **.Dasila, H., Sah, V.Ks., Jaggi, V and Sahgal, M. 2021**. Statically Proven: Quantitative Response of Phosphate Solubilizing Bacteria On Four Wheat Genotype Is Positive And Occurs In Genotype Specific Manner” (AMI- 2021), February 3rd -6th, 2021. Association of Microbiology of India, Lucknow TERI- Gharwal and University of Delhi, India.
2. **Dasila, H and Sahgal, M. 2022**. Selection and development of nature based P-biofertilizers from forest ecosystems: Studies from lab to field. December 23th -25st 2022. Banaras Hindu University (BHU), Varanasi, India.
3. **Dasila, H and Sahgal, M**. Pathogenicity of fungi associated with diseased Dalbergia sissoo Roxb. in Terai region of Uttarakhand (AMI-2017), November 16th-19th 2017. Baba Bhim Rao Ambedkar University (BBAU), Lucknow, India.

Popular Article:

1. **Dasila, H (2021)**. Pesticides use in agriculture: an issue that needs to be addressed. **Agri India** (01/VII/10/0721)

PERSONAL DETAILS

Father's name : Rajendra Dasila
Mother's name : Parwati Dasila
Date of Birth : 12/04/1992
Sex : Male
Marital status : Single
Languages known : Hindi, English
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