

CURRICULUM VITAE

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	Year of passing	Division	Percentage
Ph.D. Microbiology (Major) Molecular Biology & Biotechnology (Minor)	GBPUAT Pantnagar	C.B.S.H.	Thesis Submitted	Ist	73.4% (course work)
M.Sc. (Microbiology)	GBPUAT Pantnagar	C.B.S.H.	2016	Ist	73.30%
B. Sc. (Biotechnology)	Kumaun University Nainital	P.C.T &M, Haldwani	2012	Ist	67.40 %
12th	C.B.S.E.	S.G.T.B.School Haldwani	2009	Ist	78.4 %
10th	C.B.S.E.	S.G.T.B.School Haldwani	2007	Ist	65.8 %

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

- **AMI** (Association of Microbiology of India) Award; International Conference, Lucknow-2017,
- **ARS NET** (Agricultural Microbiology)-2019
- **GATE-Life Science** (Graduate Aptitude Test in Engineering)- 2018
- **GATE-Life Science** (Graduate Aptitude Test in Engineering)- 2019

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, Electron 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,
  - Protein extraction & purification, Native & SDS PAGE, 2D-electrophoresis
- **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

PUBLICATIONS

Research Papers –7
Book Chapters -4
Confrences- 3
Review Paper-1
Popular Article- 1

Research Papers

1. **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 **(Accepted).**

2. **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.
3. **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.

4. **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.

5. 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.

6. 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.

7. 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. Maithani D., Sharma A., Gangola S., Bhatt P., Bhandari G., **Dasila H** (2022). **"**Barnyard millet: a climate resilient multipurpose crop". Vegetos (Accepted).

Book Chapters

1. **Dasila H.,** Joshi S., Sahgal M (2020) Dissecting Structure and Function of Plant Rhizomicrobiome: A Genomic Approach. *Rhizosphere Microbes* http://dx.doi.org/10.1007/978-981-15-9154-9_3

2. **Dasila, H.,** Maithani, D., Suyal, D. C., & Debbarma, P. (2022). Cold-Adapted Microorganisms: Survival Strategies and Biotechnological Significance. In *Survival Strategies in Cold-adapted Microorganisms* (pp. 357-378). *Springer,* Singapore.

3. **Dasila, H.,** Joshi, S & Ramola, S. (2022). Soil Microbial Enzymes and Their Importance, Significance, and Industrial Applications. In Industrial application of Microbial Enzyme (pp 156-168). *Taylor and Francis*

4. 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.

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
Permanent Address	**:**	Damuadhungha Panchakki, Navoday Colony, Haldwani, Distt: Nainital, Pin Code- 263139, Uttarakhand, India