

**Dr. BURHAN HAMID**  
M.Sc., Ph. D., NET., B.Ed.  
(Specialization in Food & Industrial Microbiology)



**1. Personal Profile**

**Name** : Burhan Hamid  
**Permanent Address** : 234, Dhobiwan, Kunzer, Baramulla-193404, J&K, India.  
**Corresponding address** : Center of Research for Development (CORD) & P.G. Programme in Microbiology, University of Kashmir, Srinagar- 190006, India.  
**Gender** : Male  
**Religious** : Islam  
**Nationality** : Indian  
**Mobile** : +91- 7006919192  
**E-mail** : burhan.cordct@uok.edu.in; peerzada19@gmail.com  
**Google Scholar**: <https://scholar.google.com/citations?user=m063emcAAAAJ&hl=en&oi=ao> (Citation: 446; h:12; i10:16)  
**ORCID iD**: <https://orcid.org/0000-0003-1630-9929>  
**Sci Profile**: <https://sciprofiles.com/profile/1861027>

**2. Academic Accomplishments**

1. **Doctor of Philosophy (Ph.D) Specialization - Industrial Microbiology**, Barkatullah University, Bhopal, India. (2013)  
Ph.D. Research Problem: "Study on the biotechnological potential of some psychrophilic yeast."
2. **Master of Science (M. Sc.) Microbiology** Bangalore University, Karnataka India. (2008)
3. **Bachelor of Science (B. Sc.) Biology** University of Kashmir, India. (2005).
4. **National Eligibility Test (NET) Microbiology** Agricultural Scientific Recruitment Board –ICAR. (2017).

**3. Total Experience: 13 years**

**a. Teaching Experience: 7 years**

- Working as Assistant Professor – Contractual **Microbiology-CORD, University of Kashmir**, J&K India from **Nov 2019** till date.
- Worked as tutor in **Division of Basic Science and Humanities in Microbiology** at Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir (**SKUAST-K**). Wadura Campus. J&K India. **Feb 2015 to Dec 2016**.

**b. Research & Industrial Experience: 06 years**

- a. **Senior Research Fellow** in **DST New-Delhi** funded research project at Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir (**SKUAST-K**) India, from **March 2018 to October 2019**.
- b. **Junior Research Fellow** in **NMHS-PMU** funded research project at Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir (**SKUAST-K**) India, from **September 2017 to February 2018**.
- c. **Junior Research Fellow** in **DST New-Delhi** funded research project at Regional Research Station, Bio-fertilizer Research Laboratory, Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir (**SKUAST-K**) India, from **July 2015 to March 2017**.
- d. **Project Fellow** in **UGC-New Delhi** funded research project at Regional Research Station, Bio-fertilizer Research Laboratory, Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir (**SKUAST-K**) India, from **December 2014 to June 2015**.
- e. **Research Associate** in **Indian Council of Agricultural Research (ICAR)** funded research project at Division of Pathology Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir (**SKUAST-K**) India, from **September 2013 to March 2014**.
- f. **Sr. Microbiologist** for **Auriga Research Ltd** (A Unit of Arbro Pharmaceuticals Ltd) **NABL ISO/IEC 17025:2005 Accredited Laboratory**, Baddi (HP), India from **January 2012 to June 2013**.

**4. List of Publications: 52**

**Research papers: 33** (National- 15; International-18)    **Book Chapters: 07** (National- 01; International-06)  
**Review Papers: 11** (National- 04; International-07)    **Books: 01**(Published); **01** Under compilation (Springer)

S.No	Title of Journal/Book	Title of Research Paper / Review paper/Book Chapter	Author, Vol, Page No. Year.	ISSN/IS BN/UGC Journal S.No./IF
<b>A. Research Paper Published: 28</b>				
[1]	Journal of Basic Microbiology	Heavy-metal tolerant bacterial strains isolated from industrial sites and scrap yards of Kashmir, India.	<b>Burhan Hamid</b> , Neesa Majeed, Bashir Ahmad Ganai, Shahnawaz Hassan, Zaffar Bashir, Parvaze Ahmad Wani, Kahkashan Perveen and R. Z. Sayyed. 1-12, (2023).	I.F: 3.1, 1521-4028
[2]	Phyton-International Journal of Experimental Botany	Characterization of endophytic microorganisms of rice ( <i>Oryza sativa</i> L.) as biocontrol and plant growth promoting agents for blast disease control.	Ibrahim Al-Ashkar, Shugufta Parveen, M. Ashraf Bhat, Zahoor Ahmed Baba, Fehim Jeelani, M. Anwar Bhat, Sajad Un Nabi, <b>Burhan Hamid</b> , Saba Bandey, Farhanaz Rasool, Ayman El Sabagh, Fayaz A. Mohiddin. 92 (11), 3021-3041 (2023).	I.F: 1.7, 0031-9457

[3]	Molecule - MDPI	Evaluation of Destruction of Bacterial Membrane Structure Associated with Anti-Quorum Sensing and Ant-diabetic Activity of <i>Cyperus esculentus</i> Extracts	Parvaze Ahmad Wani, Lawal Aolat Omobolanle, <b>Burhan Hamid</b> , Raheem Aishat Fayokemi, Kahkashan Perveen, Faheema Khan, Chintan Kapadia, Jamilah Alsulami, Ong Ghim Hock, R. Z. Sayyed. <i>Molecules</i> -2520479, (2023)	IF: 4.6, 1420-3049
[4]	Regional studies in marine sciences	Temporal trends in the use and concentration of organophosphorus pesticides in Indian riverine waters, toxicity and their risks assessment.	Mohd Ashraf Dar, <b>Burhan Hamid</b> , Garima Kaushik, 59;102814, (2023).	IF: 2.166, 2352-4855
[5]	International Journal of Chemical Studies	Livelihood improvement and empowerment of rural growers through cut flower and bulb production	ZA Bhat, MH Khan, MA Wani, <b>B Hamid</b> and Shayista Nabi 10(2): 26-29; (2022)	2349-8528
[6]	International Journal of Research and Review.	Floriculture Business Triumphs All Other Farm Businesses: A Case Study	Z. A Bhat, M.H. Khan, M. A. Wani, <b>B. Hamid</b> , Shayista Nabi. 9(3): 96-98: (2022)	2454-2237
[7]	Microorganisms	Phylogeny and optimization of <i>Trichoderma harzianum</i> for chitinase production: evaluation of their antifungal behaviour against the prominent soil borne phyto-pathogens of temperate India.	Mohiddin, F.A, Padder, S.A, Bhat, A.H, Ahanger, M.A, Shikari, A.B, Wani, S.H, Bhat, F.A, Sajad, N, Hamid, A, Bhat, N.A, <b>Burhan Hamid</b> et al. 9, 1962, 1-20. (2021).	IF: 4.926, 2076-2607
[8]	Journal of Research and Development	Morphological and Biochemical Characterization of Potassium Solubilizing Bacteria from Rhizospheric Soils of <i>Pinus wallichiana</i>	Zaffar Bashir, <b>Burhan Hamid</b> , Mohammad Yousuf Zargar, and Ajaz Ahmad Kundoo 21;58-63, (2021).	0972-5407
[9]	International Research Journal of Pure & Applied Chemistry	Nitrogen indices, nodulation and yield of Mung Bean ( <i>Vigna radiate</i> L.) as influenced by integrated nutrient supply.	Sheikh T a h i r , S a d a f Iqbal, <b>Zam</b> Baba, <b>Burhan Hamid</b> and Aabroo Rashid 21(19): 21-32, (2020).	2231-3443
[10]	Journal of Research and Development	Isolation & biochemical characterization of Phosphorus Solubilizing Bacteria (PSB) from rhizospheric regions of apricot ( <i>Prunus armeniaca</i> ) & Peach ( <i>Prunus persica</i> )	Z. Bashir, M. Y Zargar, F. A Mohiddin, Z. A. Baba and <b>Burhan Hamid</b> . 19: 65-72; (2019).	0972-5407
[11]	Journal of Ornamental Horticulture	Standardization of growing media for liliium cv. Pollyana	Z.A. Bhat, Muneeb Ahmad Wani, <b>Burhan Hamid</b> , Reyaz Ahmad Bhat, I.T. Nazki and Neelofar 22: (1&2) 17-20. (2019).	0972-0499
[12]	Journal of Pharmacognosy and Phytochemistry.	Development of <i>Trichoderma</i> based bioformulations for the management of chilli wilt.	FA Mohiddin, FA Bhat, KA Bhat, ZA Bhat, MA Bhat, <b>Burhan Hamid</b> and Imran Bashir. 7(1): 2118-2122. (2018).	2349-8234
[13]	International journal of Interdisciplinary research in Arts and Humanities.	Isolation and screening of psychrophilic yeast from Gurez valley of J&K.	<b>Burhan Hamid</b> , Zahoor Ahmad Baba, Tahir Ahmad Shaikh, Zahoor Ahmad Bath 3(1), 113-116. (2018).	2456-3145
[14]	International Journal of Current Microbiology and Applied Sciences.	Impact of Azotobacter and Inorganic Fertilizers on Yield Attributes of Tomato.	Zahoor Ahmad Baba, Fozia Shafiq Wani, <b>Burhan Hamid</b> , Mudasar Nazir. 7(1), 2319-7706. (2018).	2319-7692
[15]	Research Journal of Agricultural Sciences.	Evaluation of Chrysanthemum ( <i>Dendranthema grandiflora</i> Tzvelev) Varieties in Temperate Region of Kashmir.	Z A Bhat, I T Nazki, Nelofar and <b>Burhan Hamid</b> 8(6), 1498-1502. (2017).	0976-1675
[16]	Indian Horticulture Journal.	Evaluation of Gladiolus Cultivars for Growth, Flowering, Spike Yield and Corm Yield under Temperate Regions of Kashmir.	Z A Bhat, I T Nazki, Nelofar and <b>Burhan Hamid</b> . 7(3/4), 203-207. (2017).	2249-6823

[17]	Indian Horticulture Journal.	Evaluation of Tulip Cultivars for Growth, Flowering, Scape Yield and Corm Yield under Temperate Regions of Kashmir.	Z A Bhat, I T Nazki and <b>Burhan Hamid</b> . 7(3/4), 196- 198. <b>(2017)</b> .	0972-1126
[18]	Agriculture Update	Entrepreneurship Development in Ladakh (J&K) Under DST Programme.	Z.A. Bhat, M.Q. Sheikh, Z.A. Baba and <b>Burhan Hamid</b> . 12(8), 2199-2205. <b>(2017)</b> .	0973-1520
[19]	Trends in Biosciences.	Isolation and identification of thermophilic fermenting yeast from Jaiselmer.	Isha Slathia, <b>Burhan Hamid</b> , Deepak Chauhan and Ravinder Singh. 10(44), 9106-9111. <b>(2017)</b> .	0974-8431
[20]	Journal of Pharmacognosy and Phytochemistry.	Evaluation of different substrates for mass multiplication of <i>Trichoderma</i> species.	F. A. Mohiddin, Imran Bashir, S. A. Padder, <b>Burhan Hamid</b> . 6(6), 563-569. <b>(2017)</b> .	2349-8234
[21]	Ecology, Environment & Conservation.	Arbuscular Mycorrhizal Diversity and Associations in the Crop Fields of Kashmir.	Z.A.Baba, Malik Asif, T. A. Sheikh, <b>Burhan Hamid</b> , Tabinda Sehar, Basharat Hamid and Sana Khan 22, 169-177. <b>(2016)</b> .	0971-765X
[22]	Journal of Global Biosciences.	Cold-active $\alpha$ -amylase from psychrophilic and psychrotolerant yeasts.	<b>Burhan Hamid</b> . 7, 2670-2677. <b>(2015)</b> .	2320-1355
[23]	African Journal of Microbiology Research.	Genetic studies on common rust ( <i>Puccinia sorghii</i> ) of maize under Kashmir conditions.	Ishfaq Abidi, Z. A. Dar, A. A. Lone, G. Ali, A. Gazal, F. A. Mohiddin, S. A. Dar, <b>Burhan Hamid</b> and M. A. Bhat. 9(23), 1543-1547. <b>(2015)</b> .	1996-0808, 1628
[24]	Journal of Mycophytopathological Society of Pakistan (MYCOPATH)	Incidences of Fusarium wilt of chilli ( <i>Capsicum annum</i> L.) in Kashmir valley and its management by <i>Trichoderma</i> spp.	S.A. Wani, F.A. Mohiddin, <b>Burhan Hamid</b> , G. Rizvi, K.A. Bhat, A. Hamid, A. Alam, Z.A. Baba, S. A. Padder and M. A. Bhat. 12(1), 1-8. <b>(2014)</b> .	1729-5521
[25]	African Journal of Microbiology Research.	Disease reaction studies of maize ( <i>Zea mays</i> L) against turicum leaf blight involving indigenously identified cytotsterile source.	A Ishfaq, Z A Dar, A A Lone, G Ali, A Gazal, <b>Burhan Hamid</b> , F A Mohiddin. 8(27), 2592-2597. <b>(2014)</b> .	1996-0808, 1628
[26]	Journal of Coastal Life Medicine.	<i>Rhodotorula mucilaginosa</i> BPT1 can form arthrospore in response to cold-temperature.	Sahay Sanjay, Abdul Mazid Khan, Majid Butt, Tekram Sahu, Ravinder S Rana, Deepak Chouhan, Kamlesh Ranjan, <b>Burhan Hamid</b> 2(2), 141-145. <b>(2014)</b> .	2309-6152
[27]	Journal of Endocytobiosis and Cell Research.	Partial characterization of cold-active $\beta$ -galactosidase activity produced by <i>Cystofilobasidium apitatum</i> SPY11 and <i>Rhodotorula mucilaginosa</i> PT1.	<b>Burhan Hamid</b> , Poonam Singh, Fayaz Ahmad Mohiddin and Sanjay Sahay. 24, 23-26. <b>(2013)</b> .	<b>IF: 0.800</b> 1613-8872, 10860
[28]	Letters in Applied Microbiology.	Evaluation of pectinolytic activities for oenological uses from psychrotrophic yeasts.	S. Sahay, <b>Burhan Hamid</b> , P. Singh, K. Ranjan, D. Chauhan, R.S. Rana and V.K. Chaurse 57(2), 115-121. <b>(2013)</b> .	<b>IF: 2.858</b> , 24665
[29]	Journal of Endocytobiosis and Cell Research.	Evaluation of pectinase activity from the psychrophilic fungal strain <i>Truncatella angustata</i> - BPF5 for use in wine industry.	Poonam Singh, <b>Burhan Hamid</b> , Mansoor Ahmad Lone, Kamlesh Ranjan, Asfaq Khan, Vinod K. Chaurse and Sanjay Sahay 22, 57-61. <b>(2012)</b> .	<b>IF: 0.800</b> 1613-8872, 10860
[30]	Inventi Rapid: Pharm Biotech & Microbio.	Isolation and identification of psychrophilic yeast from the soil of northern region of India.	<b>Burhan Hamid</b> , Poonam Singh, Ravinder Singh Rana, Sanjay Sahay. (1)1-5 <b>(2012)</b> .	2278-4098
[31]	International journal of institutional pharmacy and lifescience.	Isolation and characterization of fungal species from the rhizosphere of <i>Juglans regia</i> L. of Kashmir valley.	Mansoor A Lone, <b>Burhan Hamid</b> , Poonam Singh, Deepak Chauhan, Sanjay Sahay. 1(2), 18-27. <b>(2011)</b> .	2249-6807
[32]	Inventi Rapid: Pharm Biotech & Microbio.	Evaluation of amylase activity of fungal cultures at different temperatures and their properties.	Mansoor Ahmad Lone, <b>Burhan Hamid</b> , Poonam Singh, Ravinder Singh, Sanjay Sahay (2011) 4. <b>(2011)</b> .	2278-4098
[33]	International journal of Pharmaceutical Research and Development.	Assessment of anti- bacterial potential of leaves of <i>Rcinus communis</i> against dermatophytic and pathogenic bacteria.	Tajamul Islam, Hamid Bakshi, Samitha Sam, Ekta Sharma, <b>Burhan Hamid</b> . 12, 1-7. <b>(2010)</b> .	0974-9446

<b>B. Review Paper Published: 11</b>				
1.	Microbial Biotechnology	Cold-active microbial enzymes and their biotechnological applications	Kuddus, M., Roohi, Bano, N., Sheik, G.B., Joseph, B., <b>Hamid, B.</b> , Raveendran Sindhu, Aravind Madhavan (2024). 17, e14467. <a href="https://doi.org/10.1111/1751-7915.14467">https://doi.org/10.1111/1751-7915.14467</a>	<b>IF: 5.7</b> , 1751-7915
2.	Biomass Conversion and Biorefinery – Springer	Microbial-based conversion of food waste for sustainable bioremediation and utilization as compost	<b>Burhan Hamid</b> , Ali Mohd Yatoo, R. Z. Sayyed, R. Dineshkumar, Jameel M Al-Khayri, Zaffar Bashir, Mika Sillanpää, Neesa Majeed. <a href="https://doi.org/10.1007/s13399-023-04794-6">https://doi.org/10.1007/s13399-023-04794-6</a> (1-15)(2023)	<b>IF: 4.1</b> , 2190-6823
3.	Molecules- MDPI	Cold-Active Enzymes and Their Potential Industrial Applications—A Review	<b>Burhan Hamid</b> . Bashir, Z., Yatoo, A. M., Mohiddin, F., Majeed, N., Bansal, M., ... & Alfaifi, M. Y. 27(18), 5885. (2022).	<b>IF: 4.927</b> 2073-4344
4.	Processes- MDPI	Microbial Remediation: A Promising Tool for Reclamation of Contaminated Sites with Special Emphasis on Heavy Metal and Pesticide Pollution: A Review.	Tarfeen, N., Nisa, K. U., <b>Burhan Hamid</b> , Bashir, Z., Yatoo, A. M., Dar, Fayaz, M. A., Zakir, A., Ahmad, R.A & Sayyed, R. Z. 10(7), 1358. (2022).	<b>IF: 3.5</b> 2227-9717
5.	Environmental Chemistry Letters Springer	Assessment of pesticide toxicity on earthworms using Multiple biomarkers: a review	Ali Mohd Yatoo, Md. Niamat Ali, Zarka Zaheen, Zahoor Ahmad Baba, Shafat Ali, Saiema Rasool, Tahir Ahmad Sheikh, Mika Sillanpää, Pankaj Kumar Gupta, <b>Burhan Hamid</b> , Basharat Hamid, 20, 1-24, (2022).	<b>IF: 15.7</b> 1610-3653
6.	Journal of Research and Development	Role of Microorganisms in Solid Waste Management	<b>Burhan Hamid</b> and Zaffar Bashir 20; 29-35 (2020)	0972-5407
7.	Journal of Research and Development	Potassium Solubilizing Microorganisms: An alternative technology to chemical fertilizers.	<b>Burhan Hamid</b> and Z. Bashir, 19:78-84; 2019.	0972-5407
8.	SKUAST Journal of Research.	Cold-active yeast proteases as a versatile tool for industry: A review.	F.A. Mohiddin and <b>Burhan Hamid</b> . 20(2), 127-134; (2018)	0972-1126
9.	International journal of advance research in science and engineering.	Trichoderma as a potential bio-control agent.	<b>Burhan Hamid</b> , Fayaz A. Mohiddin 7(3), 68-76. (2018).	2319-8354
10.	Indian farmer	Arbuscular mycorrhizae: an input for organic agriculture.	Z A Baba, M Y Zargar, T A Shaikh, T Sehar, <b>Burhan Hamid</b> , Basharat Hamid, M. Nazir. 5(6), 595-607. 2018.	2394-1227
11.	African Journal Of Biotechnology	Psychrophilic yeasts and their biotechnological applications – A review.	<b>Burhan Hamid</b> , Ravinder Singh Rana, Deepak Chauhan, Poonam Singh, Fayaz Ahmad Mohiddin and Sanjay Sahay. 13(22), 2188-2197. (2014).	1684-5315, 1613
<b>C. Books Chapters Published: 07</b>				
1.	Advances in Natural Dyes for Environmental Protection: Degradation and Remediation. <b>Taylor &amp; Francis.</b>	Microbe-Mediated Remediation of Dyes	<b>Burhan Hamid</b> , Neesa Majeed, Syed Nasir Ahmad, Ali Mohd Yatoo, Zaffar Bashir, Tawfeeqa Hamid, and Zahoor Ahmad Bhat (2023) <b>CRC Press Taylor &amp; Francis</b>	978-1-77491-656-8
2.	Current status and opportunities in a changing environment	Plant tissue culture and its role in plant breeding programs	Zahara Sultan, Najeebul Tarfeen, Burhan Hamid, Zaffar Bashir, Tufail Ahmad Bhat (2023)	
3.	Nano-Bioremediation for Water and Soil Treatment: An Eco-Friendly Approach. <b>Taylor &amp; Francis</b>	Nanoremediation: Sustainable Reclamation Method for Future Deployment	Khair Ul Nisa, Najeebul Tarfeen, <b>Burhan Hamid</b> , Qadrul Nisa, Humaira, Saba Wani, Zaffar Bashir, Ali Mohd Yatoo, and Shabir H. Wani. (2023) Page no 333-348, <b>CRC Press Taylor &amp; Francis</b>	978-1-77491-486-1
4.	Microbiomes and the Global Climate Change. <b>Springer.</b>	Potent biotechnological applications of psychrozymes	<b>Burhan Hamid</b> (2021) Page no 349-364, <b>Springer</b>	978-981-334-508-9
5.	Enzymes in Food Technology. <b>Springer.</b>	Cold-active enzymes in food processing. In: Kuddus M.(eds) Enzymes in Food Technology.	<b>Burhan Hamid</b> , F. A. Mohiddin (2018) Page no 383-400, <b>Springer</b>	978-981-13-1933-4

6.	Legumes for Soil Health and Sustainable Management, <b>Springer</b> .	Harnessing Rhizobacteria for Improving Drought Resilience in Legumes.	Parvaze A. Sofi, Zahoor A. Baba, <b>Burhan Hamid</b> , Ram Swaroop Meena. Page no 235-275, <b>(2018). Springer</b> .	978-981-13-0253-4
7.	Afforestation and Biofuel energy.	Biofuel – As an alternative energy resource.	<b>Burhan Hamid</b> and Maqbool Basharat 117-128. <b>(2017). Biotech Publishers</b> .	978-81-7622-408-6.
<b>D. Books Published: 01</b>				
1.	Yeast – As a Potential Source of Enzymes.	Application of cold-active enzymes in Microbiology & Biotechnology.	<b>Burhan Hamid</b> Page no 1-115. <b>(2017). LAP LAMBERT Academic Publishing Germany</b> .	978-3-330-04481-4.

**Book proposal approved:**

**Book title:** Psychrophilic Microbiome: Life and Industrial Applications. **Publisher:** Springer Nature (under compilation)

**1. Workshops and Conferences attended: 15**

**2. Technical bulletins: 12**

**3. Appreciation certificates: 04**

**4. Invited Lectures/Talk: 05**

**5. Reviewer: 04 journals**

**6. Student supervised**

M.Sc. Microbiology students supervised & under supervision for dissertation research work: **09**

**7. Registered nucleotide sequences of potential microbial strains submitted to NCBI: 11**

**Declaration**

I solemnly declare that the information given above is true to the best of my knowledge and belief.

**Dr. BURHAN HAMID**