

## CURRICULUM VITAE



**Dr. Zaffar Bashir**

Google scholar citations: 266

h-index: 8

i10- index: 8

Center of research for development (CORD) and PG Programme in Microbiology

University of Kashmir-190006

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### AREA OF INTEREST

- Biofertilizer technology
- Biocontrol technology
- Consortium development
- Microbial analysis (Soil and Water)
- Plant Rhizosphere: Microbial ecology, and microbial characterization.
- Composting technology
- Soil and Plant health

### Qualifications

- M. Sc Microbiology, Bangalore University
- Ph.D.: Microbiology, Skuast Kashmir
- NET: ICAR

### TEACHING/ RESEARCH EXPERIENCE

- Five years teaching experience at university of Kashmir.
- One year teaching experience at SKUAST -Kashmir
- One year research experience as JRF in NMHS project “Collection, Characterization, Conservation, and utilization of important genetic resources of hilly regions of J & K and Ladakh”

### AWARDS

- **Best poster presentation award** in 2 days National work shop 27, 28 Sept. 2017, Cluster University, Kashmir, women college M.A. Road Srinagar.
- **Poster presentation award SKUAST-J.** International conference on recent trends in Bioinformatics and a Biotechnology for sustainable development organized by **SKUAST-J.** 12 -13 Oct. 2017
- **Best poster presentation award**, two days national conference conducted by Zoology department of **Kashmir University** and zoological society of India, 5-6 August, 2018.
- **Best thesis award** at 3<sup>rd</sup> international conference “Global initiatives in Agriculture and Applied Sciences for Eco Friendly Environment (GIASE-2019) during 16-18 June, 2019. Tribhuvan University, Kathmandu.

### APPRECIATION CERTIFICATES

- Appreciation Certificate by **PI NMHS** Project. Entitled “Collection, Characterization, Conservation, and utilization of important genetic resources of hilly regions of J & K and Ladakh”
- Appreciation Certificate on presentation of research paper, by Department of environmental sciences and IQAC Govt. S.A.M. Degree College, Budgam (J&K) one day national conference, on 26<sup>th</sup> Oct. 2017
- Appreciation Certificate by SKUAST -Kashmir on NSS course of 120 hours during spring semester 2015.

## PUBLICATIONS

1. **Zaffar Bashir**, M.Y. Zargar, Tariq. A. Bhat and Shaheen kousar. Z.A. Baba and F.A. Mohiddin. Solubilization of phosphorus containing mineral by bacteria from Rhizospheric regions of walnut (*Juglans regia*). *International journal of current microbiology and applied sciences*, (2018), 7(8). **NAAS :5.2**
2. **Zaffar Bashir**, M. Y. Zargar, Mohit Husain, F. A. Mohiddin, Shaheen Kousar, Syed, Berjes Zahra, Asif Ahmad and Jagdeesh Prasad Rathore. Potassium Solubilizing Microorganisms: Mechanism and Diversity. *Int. J. Pure App. Biosci.* 5 (5): 653-660 (2017). **NAAS:4**
3. Burhan Hamid, **Zaffar Bashir**, Ali Mohd Yattoo, Fayaz Mohiddin, Neesa Majeed, Monika Bansal, Peter Poczai, Waleed Hassan Almalki, RZ Sayyed. Cold-Active Enzymes and Their Potential Industrial Applications-A Review. *Molecules MDPI* 2022,27,5885. **Impact factor. 4.2**
4. Kaisar Ahmad Bhat, UneeB Urwat, **Zaffar Bashir**, Ali Asghar Shah, Ankit Agrawal, Basharat Bhat, Parvaze A. Sofi, Antonio Masi and Sajad Majeed Zargar. Low Temperature Stress Tolerance: An Insight Into the Omics Approaches for Legume Crops. *Front. Plant Sci.* 13:888710. **Impact factor: 6.627**
5. Najeebul Tarfeen, Khairul Ul Nisa, Burhan Hamid, **Zaffar Bashir**, Ali Mohd Yattoo Mohd Ashraf Dar, Fayaz Ahmad Mohiddin, Zakir Amin, Rabi'atul Adawiyah Ahmad 5 and R. Z. Sayyed. Microbial Remediation: A Promising Tool for Reclamation of Contaminated Sites with Special Emphasis on Heavy Metal and Pesticide Pollution: A Review. *Processes, MDPI*, 2022, 10, 1358. **Impact factor. 3.4**
6. Burhan Hamid, Neesa Majeed, Bashir Ahmad Ganai, Shahnawaz Hassan, **Zaffar Bashir**, Parvaze Ahmad Wani, Kahkashan Perveen, R. Z. Sayyed. Heavy-metal tolerant bacterial strains isolated from industrial sites and scrap yards in Kashmir, India. *J Basic Microbiol.* www.jbm-journal.com Wiley-VCH GmbH 2023; 1-12. **Impact factor: 2.6**
7. Fayaz Ahmad Mohiddin, Nazir A. Bhat, Shabir H. Wani, Arif H. Bhat, Mohammad Ashraf Ahanger, Asif B. Shikari, Najeebul Rehman Sofi, Shugufta Parveen, Gazala H. Khan, **Zaffar Bashir**, Pavla Vachova, Sabry Hassan and Ayman EL Sabagh. Combination of Strobilurin and Triazole Chemicals for the Management of Blast Disease in Mushk Budji -Aromatic Rice. *Fungi.* MDPI. 2021, 7, 1060. **Impact factor 5.72**
8. Burhan Hamid, Ali Mohd Yattoo, R. Z. Sayyed, R. Dineshkumar, **Zaffar Bashir**, Mika Sillanpää, Neesa Majeed. Microbial-based conversion of food waste for sustainable bioremediation and utilization as compost. *Biomass Conversion and Biorefinery.* (2023), 13399-023-04794. **Impact factor. 4.1**
9. **Zaffar Bashir**, M.Y. Zargar, Z.A. Baba and F.A. Mohiddin. Effect of Potassium and Phosphorus Solubilizing bacteria on growth Parameters of Chilli (*Capsicum annum* L.) Under Kashmir Climatic conditions. *International Journal of Chemical Studies*, 2017; 5(5): 692-695. **NAAS: 5.3**
10. **Zaffar Bashir**, M.Y. Zargar, F.A. Mohiddin, Shaheen Kousar, Mohit Husain and Farahnaz Rasool. Phosphorus solubilizing microorganisms: mechanism and diversity. *International Journal of Chemical Studies* 2017; 5(5): 666-673. **NAAS:5.3**
11. **Zaffar Bashir**, M.Y. Zargar, Z.A. Baba, F.A. Mohiddin, F.A. Peer, S.A. Mir and G.R. Najar. Solubilization of Potassium Containing mineral by bacteria from Kashmir Iris (*Iris kashmiriana*) rhizosphere. *The Pharma Innovation Journal* 2018; 7(4): 747-750. **NAAS: 5.23**
12. **Zaffar Bashir**, M.Y. Zargar, Z.A. Baba, F.A. Mohiddin, F.A. Peer, S.A. Mir and G.R. Najar. Isolation and Characterization of Phosphorus solubilizing bacteria (PSB) from rhizospheric soils of apple (*Malus Domestica*). *Journal of Pharmacognosy and Phytochemistry* .2018 7(2): 2997-3000. **NAAS:5**
13. **Zaffar Bashir** and M.Y. Zargar. Characterization of Potassium Solubilizing Bacteria from Rhizospheric soils of walnut (*Juglans regia* L.). *International Journal of Advanced research in Science and Engineering*. Volume No.07. Special issue No.04. March. 2018.
14. Sartaj A. Wani, Mehraj-ud-din Khanday, **Zaffar Bashir**, Shaheen kousar, Farahanaz Rasool and M. Y. Zargar. Carbon sequestration potential of soils. *Advances in life sciences*. 2016 5(21). **NAAS:3**
15. Sartaj, a. wani, Tahir Ali, **Zaffar Bashir**, Shaheen kousar and Farahanaz Rasool Organic Farming and its Services in Sustainable Agriculture. *Advances in Life Sciences* 2016 5(21), **NAAS:3**
16. Mohit Husain, Jagdeesh Prasad Rathore, Aatifa Rasool, **Zaffar Bashir**, Mohd Tariq and Zubair Ahmad Dar. Abiotic stress management in herbaceous crops using breeding and biotechnology approaches. *The Pharma Innovation Journal*. 2017; 6(10): 269-276. **NAAS:5.23**
17. Syed, Berjes Zehra, Asif Ahmad, Abhishek Sharma, Shakeela Sofi, Azra Lateef, **Zaffar Bashir**, Mohit Husain and Jagdeeh Prasad Rathore. Chilli Leaf Curl Virus an Emerging Threat to Chilli in India. *Int. J. Pure App. Biosci.* 2017 5(5): 404-414. **NAAS:4.3**

18. Ajaz Ahmad Kundoo, Showket Ahmad Dar, Muntazir Mushtaq, **Zaffar Bashir**, Mohammad Saleem Dar, Shaheen Gul, Mohammad Tawseef Ali and Shammema Gulzar. Role of neonicotinoids in insect pest management: A review. *Journal of Entomology and Zoology Studies* 2018 6(1): 333-339. **NAAS:5**
19. S.A. Samoon, Neelofar, **Zaffar Bashir**, K.S. Kirad and A.A. Lone. Effect of Nitrogen and Phosphorus levels on flowering of Calendula (*Calendula officinalis* L) var. touch of red Mixture. *The Pharma Innovation Journal* 2018 7(5): 39-41. **NAAS:5.23**
20. SA Samoon, Neelofar and **Zaffar Bashir**. Response of rhizomatic parameters of *Alstroemeria* to organic and inorganic fertilizers under protected conditions. *Journal of Pharmacognosy and Phytochemistry*. 2018 7(3): 423-426. **NAAS:5**
21. **Zaffar Bashir**, M.Y. Zargar, F.A. Mohiddin, Z.A. Baba and Burhan Hamid. Isolation and Biochemical Characterization of phosphorus solubilizing bacteria from Rhizospheric region of Apricot and Peach. *Journal of research and Development. University of Kashmir*. 2019., vol.19 ISSN 0972-5407.
22. Burhan Hamid and **Zaffar Bashir**. Potassium solubilization microorganisms: An Alternative technology to chemical fertilizers. *Journal of research and Development University of Kashmir*. 2019., vol.19 ISSN 0972-5407.
23. Humaira Bashir, **Zaffar Bashir**, Reetika Mahajan, Muslima Nazir, Rakeeb A. Mir · F. A. Nehvi, Sajad Majeed Zargar. Molecular characterization and insights into the origin of common bean (*Phaseolus vulgaris* L.) landraces of north western Himalayas The Nucleus: An International Journal of Cytology and Allied Topics. 2020. **Springer** ISSN 0029-568X
24. Showket Ahmad Dar, Sajad Hussain Mir, **Zaffar Bashir**, Kounser Javeed, Muneer Ahmad Sofi, Mudasir Hassan, Tashi Dawa, Tashi Dolkar, Sabreena Ashraf, Shafiyah Rashid. Mode of action of biopesticides (virus, fungi, bacteria, protozoa and nematodes) and their symptoms of infestation to insect pests. *Multilogic in science*. 2021 Vol. X, ISSUE XXXVI,
25. Burhan Hamid\* and **Zaffar Bashir**. Role of Microorganisms in Solid Waste Management. Centre of Research for Development. University of Kashmir, Hazratbal, Srinagar, J & K, India. *Journal of Research and Development* 2020 Vol. 20
26. Burhan Hamid\* and **Zaffar Bashir**. Potassium Solubilizing Microorganisms: An Alternative Technology to Chemical Fertilizers. *Journal of Research and Development* 2019 Vol. 19
27. **Zaffar Bashir\***, Burhan Hamid, Mohammad Yousuf Zargar, and Ajaz Ahmad Kundoo. Morphological and Biochemical Characterization of Potassium Solubilizing Bacteria from Rhizospheric Soils of Pinus (*Pinus wallichiana*). *Journal of Research and Development*. 2021 Vol. 21
28. **Zaffar Bashir\***. Characterization of Potassium Solubilizing Bacteria from Rhizospheric Soils of Cherry (*Prunus avium*). *Res. Jr. of Agril. Sci.* 2021 12(2): 494-496. **NAAS:4.50**
29. Mohiddin, F.A.; Bhat, N.A.; Wani, S.H.; Bhat, A.H.; Ahanger, M.A.; Shikari, A.B.; Sofi, N.R.; **Zaffar Bashir**. Combination of Strobilurin and Triazole Chemicals for the Management of Blast Disease in Mushk Budji -Aromatic Rice. *Journal of Fungi (MDPI)*. 2021 7 1060. **Impact factor.5.7**
30. Mansoor A Dar\*, Mandeep Kaur, Ambreen Hamdani, Sadaf Rafiq, Aatifa Rasoo and **Zaffar Bashir**, *In vitro* Studies on Antagonistic Potential of Trichoderma Species and Plant Extracts against Various Plant Pathogens. *EC Microbiology* 2021 17.4
31. Kaiser Ahmad Bhat, Reetika Mahajan, Mohammad Maqbool Pakhtoon, Uneeb Urwat, **Zaffar Bashir**, Ali Asghar Shah, Ankit Agrawal, Basharat Bhat, Parvaze A. Sofi, Antonio Masiand, Sajad Majeed Zargar. Low Temperature Stress Tolerance: An Insight Into the Omics Approaches for Legume Crops. *Front. Plant Sci.* (2022), 13:888710.

#### **BOOK CHAPTER:**

1. Book title: Applied Agricultural practices for Mitigating climate change. Potassium solubilizing microorganisms for sustainable agriculture. **Zaffar Bashir**. (pp.17-28). In **Taylor and Francis- CRC press**.
2. Book title: Silicon and nano-silicon in environmental stress management and crop quality improvement: Silicon- and nanosilicon-mediated disease resistance in crop plants. Kaiser Ahmad Bhat, Aneesa Batoo, Madeeha Mansoor, Madhiya Manzoor, **Zaffar Bashir**, Momina Nazir and Sajad Majeed Zargar. Academic Press is an imprint of **Elsevier** 125 London Wall, London EC2Y 5AS, United Kingdom 525 B Street, Suite 1650, San Diego, CA 92101, United States 50 Hampshire Street, 5th Floor, Cambridge, MA 02139, United States. **2021. ISBN: 978-0-323-91225-9**. The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, United Kingdom.
3. Book title: Neglected and Underutilized Crops - Towards Nutritional Security and Sustainability. Genomic Approaches for the Improvement and Conservation of Buckwheat-167. Shazia

Mukhtar, **Zaffar Bashir**, Rakeeb Ahmad Mir and Sajad Majeed Zargar. ISBN 978-981-16-3875-6 ISBN 978-981-16-3876-3. **Springer Nature** Singapore Pte Ltd. 2021).

- **Registered nucleotide sequences of some potential microbial strains submitted to NCBI:**  
**Accession No:** JN899372.1, AF033438.1, KX034667.1, PP188636, PP188635, PP188633, PP188620, PP188617, PP188597, PP577654, PP577655.
- **Registered Germ Plasm lines, Buckwheat (*Fagopyrum* spp):**  
Some of the germ plasm lines (Buckwheat (*Fagopyrum* spp)) with unique traits have been registered in NBPGR, New Delhi.110012. Ten germplasm lines with accession numbers: IC-0642403SEEDS, IC-0642404SEEDS, IC-0642405SEEDS, IC-0642406SEEDS, IC-0642407SEEDS, IC-0642408SEEDS, IC-0642409SEEDS, IC-0642410SEEDS, IC-0642411SEEDS and IC-0642412SEEDS.

## DECLARATION

I hereby solemnly declare that the above furnished particulars are true to the best of my knowledge and belief.

**Date: 26/04/2024**  
**Place: Srinagar**



**(Dr. Zaffar Bashir)**