



**Email:**[nighatmushtaq2@gmail.com](mailto:nighatmushtaq2@gmail.com)

M obile No.:9796001938  
D/O: Mr. Mushtaq Ahmad Sofi  
& Mrs. Shameema Begum

**Permanent Address City:**  
Pampore, Jammu and Kashmir-  
192122.

**Personal Data:**  
Sex: Female  
Nationality:  
Indian  
D.O.B: 04.10.1990

## Biodata

**NIGHAT MUSHTAQ**

### Carrier Objective:

Seeking a position to utilize my skills and abilities in a research institution that offers security and professional growth for being resourceful, innovative and flexible. To be the integral part of the organization and to contribute my outmost towards the growth and goal of the resource institution.

### Current status:

Worked as Young professional in National Horticulture Board  
,Ministry of Agriculture and Farmers Welfare ,GoI.

Current working as Assistant Professor, Faculty of Horticulture, Govt  
Degree College Baramulla.

## 1. Academic Credential and Achievements

- 2013: B.Sc.Horticulture, Sher-e-Kashmir University of Agricultural Sciences and Technology, Shalimar, Srinagar,J&K, India,**OGPA=8.35**
- 2015: M.Sc (Horticulture), Sher-e-Kashmir University of Agricultural Sciences and Technology, Shalimar, Srinagar, J&K, India. **OGPA=8.77**
- 2019: **Ph.D** (Vegetable Science), Sher-e-Kashmir University of Agricultural Sciences and Technology, Shalimar, Srinagar, J&K, India. **OGPA=8.80.**
- **Qualified ICAR-NET-2017(I) with 66.44% Marks in the discipline of Vegetable Science.**
- Awarded with **best poster presentation on** “Biofertilisers: Sustainable development for plant and soil health” in international youth symposium held on January 30-31,2018 organized by B.K school of Business management ,**Gujrat University, Ahmedabad, India.**
- **Awarded with best poster Presentation** on Protoplast culture for improvement of Vegetable crops”
- **Awarded with best poster** presentation on “ Indoor Saffron cultivation” in an International conference on “Saffron and seed spices-Innovative technologies for sustainable development” held on November 7-8,2021.
- Awarded with Certificate of appreciation for successfully completing the National Service Scheme course of 120 hrs. during Ph. D programmer in 2016

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| <b>2. Traiings</b>    | <ul style="list-style-type: none"> <li>• Participated in online workshop on “Nutraceuticals and bioactive health compounds in Vegetable crops’ from 15-17 June, 2020 under IDPNAHEP, SKUAST-K.</li> <li>• Participated in ten days skill development course on “Hands on crop modeling(DSSAT)” organized by Agromet field Unit in collaboration with NAHEL SKUAST K from 10-20 December,2020.</li> <li>• Participated in 5days online training programme on “Google Suite foe E-learning from sep 21-25 ,2020,organized by ARIS, SKUAST- K sponsored by NAHEP,SKUAST-K.</li> <li>• One week training programme on “Research Methodology for Research Scholars of Science” organized by UGC-Human Resource Development Centre, University of Kashmir, Srinagar,13-19 September,2017.</li> <li>• Attended 40 days training programme under Agri-Clinic and Agri Business scheme, GOI, from 04-10-2017 to 03-12-2017.</li> <li>• Attended 06 weeks training programme on “Entrepreneurship skill development programme in “Food Processing” organized by Micro, Small and Medium enterprise development institute Srinagar, GOI in collorabation with Directorate of extension, SKUAST-K.</li> <li>• Attended 10 days training programme on “Satellite Farming:An information and technology based Agriculture” organized by DARS Rangreth in collaboration with Agromet unit,FoH,Shalimar under NAHEP.</li> <li>• Attended ten days online workshop on “Underutilized plant species:</li> <li>• Future smart crops for food nutritional security and income generation from 20<sup>th</sup> -29<sup>th</sup> Aug,2020.</li> <li>• Attended five days online training on greenhouse start up: Go smart to grow smart, organised by Division of vegetable science, SKUAST-K in collaboration with centre for protected cultivation technology, ICAR, IARI ,New Delhi from7-11Sep, 2020</li> </ul> |
| <b>3. Conferences</b> | <ul style="list-style-type: none"> <li>• Participated in the national web conference in Augumeting vegetable productivity through recent techniques organized by BAU, Sabour, Bhagalpur from 9-10 Sep,2020</li> <li>• Attended one day international webinar on “Women in science and their Role in sculpting modern agriculture” organized by Bihar Agriculture University, Sabour ,Bhagalpur held on 26<sup>th</sup> August,2020.</li> <li>• Attended two days state level seminar on awareness, motivation and technology transfer for development of beekeeping in Jammu and Kashmirfrom 12-13 September 2018.</li> <li>• Participated in three days state level seminar, Theme: Production and Popularization of Temperate Spice Crops for Livelihood Security, 15-17 March, 2016 at SKUAST-K.</li> <li>• Participated in two days state level seminar on Awareness, Motivation and Technology Transfer for development of scientific Bee keeping in Jammuand Kashmir, 18-19 August, 2017 at SKUAST-K.</li> <li>• Participated in “Two day national Interdisciplinary Science</li> </ul>   |

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| <p><b>4. Fellowships and Awards</b></p> | <p>Conference on the theme "Science in Development" organized on 3<sup>rd</sup> -4<sup>th</sup> December, 2018 by the Dept. of Environment and water management and P.G Dept. of Environmental Sciences.</p> <ul style="list-style-type: none"> <li>Presented paper in National seminar on "Recent trends and future prospects in sustainable agriculture with reference to climate change", 18- 19 March, 2017, at Department of Agronomy, Janta Colleg, Bakewar, Etawah, U.P.</li> <li>Presented poster in National seminar on Saffron Production and Promotion, 7-8 August, 2017, held at SKUAST-K</li> <li>Presented a paper entitled "Biodiversity and climate change-challenges and prospectus" in one day National seminar at Govt. Sheikh-ul- Alam Memorial (S.A.M) Degree college Budgam, J &amp; K on 26th October, 2017.</li> </ul> <p>Presented paper in "International conference on worldwide research initiatives for Agriculture, Science and Technology, 2018 from 24-26 October, organized by National Agriculture development cooperative Limited.</p> <ul style="list-style-type: none"> <li>Presented paper in 1st International conference on "Recent Developments in Science, Humanities and Management, 2018 from 17-18 April, 2018.</li> <li>Presented paper in Progressive Horticulture conclave -2019, Futuristic Technologies in Horticulture, ICAR, CISH Lucknow. From 8-10 December, 2019</li> </ul> <ul style="list-style-type: none"> <li>Awarded Merit cum means scholarship during under graduate programme, 2011</li> <li>Awarded with University Batch Toppers Merit Scholarship (SKUAST-K), 2015.</li> <li>Awarded with Maulana Azad National Fellowship, (UGC-2017).</li> <li>Awarded with <b>Dr Rays Best Dessertation</b> award for Doctoral Research by CHAI, Confederation of Horticulture Association of India, during 16th, September 2021</li> </ul> |
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| 5. Employment details: | Employment record relevant to the assignment:  |  |         |  |
|                        | Period   | Employing organization and title/position.                 | Country | Summary of activities performed        |
|                        | Jan 2015 to Jan 2016   | Subject Matter Specialist in the Department of Agriculture | India   | Extension services under ATMA Scheme   |
|                        | Mar14,2019 to Sep 13, 2020   | Senior Research Fellow,FASAL,Ministry of Earth Sciences.   | India   | Weather Forecasting and crop Modelling |
|                        | Sep,14, 2020 to 26 Feb 2023  | Senior Research Fellow, DST,SERB on Kala Zeera             | India   | Breaking of seed dormancy              |
|                        | 27 <sup>th</sup> Feb till date   | National Horticulture Board                                | India   | Development of Commercial Horticulture |
| 6. Published Articles  | <ol style="list-style-type: none"> <li><b>Nighat Mushtaq.</b>, Nazeer Ahmed., Khursheed Hussain and Nageena Nazir. (2019). Effect of different fertigation levels on plant growth and fruit yield of sweet pepper grown under greenhouse conditions.<i>Indian Journal of Horticulture</i>,76(3):446-450.</li> <li>MHKhan, B AAlie, S A Dar, Mir G Hasan, Ajaz Ahmad Lone, NA Dar, AMI Qureshi, ZA Dar, S Gulzar, MT Ali and <b>N Mushtaq</b>. Morpho biochemical studies of saffron under cold arid regions of ladakh (2022).The Pharma innovation.SP-11(3).1299-1304</li> <li>S.Qayoom, <b>N.Mushtaq</b>,R.Kumar, L.Ahmad, B Alone, P Singh, A Pandith, W Yousuf, Khalid Bhat(2022). Pheno thermal response of exotic high density Apple varieties under temperate conditions of Kashmir. <i>Journal of Agrometeorology</i> ISSN 0972-1665</li> <li>Zero budget natural farming with reference to punjab conditions.A review .Sushma Sharma, Asma Fayaz, Bilal Ahamd Lone,Zahoor Ahmad Dar, Aijaz Nazir,Ishfaq Abidi,Nighat Mushtaq and Sandeep Chemical Engineering.Pp 9-14 ,2021.</li> <li>Biofertilizer: A key to sustainable Agricultural Productivity.Areview . Asma Fayaz, Sushma Sharma, Bilal Ahamd Lone, Sandeep Kumar ,<b>Nighat Mushtaq</b> ,Zahoor Ahmad Dar, and Sameem Shafi Hafiz. Chemical Engineering-2021.</li> <li><b>N Mushtaq</b>, N Ahmed,K Hussain and A Q Ganai (2020). Economic alanalysis of sweet pepper garden pea cropping sequence</li> </ol> |  |         |  |

as influenced by NPK and micronutrient through fertigation under polyhouse conditions *Vegetable science* 47(2):285-287.

7. B.A.Lone, A.Fayaz, S.qayoom, N.A.Dar, Z.A.Dar, P.singh, S.Kumar, Faisal Rasool, Najmah Andrabi and **Nighat Mushtaq**.(2020). Studying yield and water productivity of maize at enhanced level of temperature using DSSAT 4.7.5. *Current journal of Applied Science and Technology*. 39(26):93-104
8. B.A. Lone, A. Fayaz, S. Qayoom , R.H. Kanth , Z.A. Dar, P.Singh, S Kumar, N Andrabi and **Nighat Mushtaq**. Simulating maize yield at enhanced level of temperature using CERES maize model. *Journal of Agrometeorology*.22 (3) : 379382
9. B.A. Lone, A. Fayaz, Ashfaq Abidi, Shilpa Koushal ,Sandeep Kumar  
,**Nighat Mushtaq**,Faisal Rasool, Rehana Rasool ,Z.A.Dar (2020). Evaluation CERES MAIZE Model under indian temperate conditions.Maydica electronic publication.
10. Latief Ahmad, Sameera Qayoom, Baseerat Afroza, Owais A. Bhat and **Nighat Mushtaq** .(2019)Water Requirement of Solanaceous Vegetable Crops in Kashmir Valley *Current Journal of Applied Science and Technology* 35(4): 1-7.
11. **Mushtaq, N.**, Mushtaq, F., Rasool, F., Jan, R., Berjis, S., Ganie, M. A and Mushtaq, R.(2016). Effect of foliar application of B and Zn on growth and fruit quality parameters of Tomato cv. Shalimar 1 under temperate conditions in Kashmir valley. *The Bioscan* 11(1): 12991301.
12. **Mushtaq, N.**, Mushtaq, F., Jan, R., Mufti, S and Kumar. A. (2017). Effect of foliar application of B and Zn on maturity, ascorbic acid content and relative economics of tomato fruit cv. Shalimar 1 under open field conditions in Kashmir valley. *Ecology Environment and Conservation*.23(3): 1575–1579.
13. Javid, R. Rather, G.H., **Mushtaq, N.**, Banday, F.A., Jan,A.,Baba,T.,Shameem,R and Javaid .K.(2016). Pollination Compatibility among different apple cultivars under Kashmir conditions .*Indian journal of Ecology*.43: 841-843.
14. Zehra, S. B.,Khan, S. H.,Ahmad, A.,Afroza, B.,Jabeen .N., Ahmad, T and **Mushtaq, N.** (2016).Correlation and Path Analysis in chilli.(*Capsicum annuum L.*).*Indian journal of Ecology* **43**(2):730-733. **6**
15. Nisa, M.,Slathia,D.,Nazki,I.T.,**Mushtaq, N.** and Malik,K.M .(2016). Impact of integrated use of biofertilisers with reduced dose of chemical fertilizers in flower crops. *Advances in Life*

*Science* 5 (21): 9555- 9559.

16. Kouser, S., Rasool,F., **Mushtaq, N.** (2017).Evaluation of different locally available farm by products/agro wastes for optimum production of Dhingri mushroom(*P.Ulmarius* and *P. sajor caju*)during 30 days of cropping period. *Annals of Agri.Bio.Research.* 22(2):233- 235.
17. Jan, R., Ali,T., **Mushtaq, N.,** M. M. Jehangir and Jan.,R. (2017).Influence of INM on quality parameters, nutrient content and uptake inFrench bean under temperate Kashmir conditions. *Research journal ofAgricultural Science* 8(5):1066-1068.
18. Kouser, S., Rasool,F., **Mushtaq, N** and Jan,R.(2017). Evaluation ofdifferent species of pleurotus for maximum yield in different seasons onpaddy straw under temperate conditions ofKashmir.*International journal of current microbiology and applied sciences.*6(12): 1202-1205.
19. Bhat, R. A., Shafiq-ur-Rehman. Mehmood, M.A., Dervesh, M.A.**Mushtaq,N.,**Bhat,J.I.A.,Dar,G.H (2017).Current Status of Nutrient Load in Dal lake of Kashmir Himalaya.*Journal of pharmacognosy and phytochemistry.* 6(6):165-169
20. Jan, R., Ali,T., **Mushtaq, N.,** R.Shazia., Nabi.B.Baseerat and M.M.Jehangir (2017).Influence of Integrated Nutrient Management in French bean(*Phaseolus Vulgaris* L.) contender under temperate Kashmir conditions. *International Journal of chemical studies* 5(5):1741-1745.
21. Kouser, S., Rasool,F., **Mushtaq, N** and Jan,R.(2017). Evaluation ofdifferent species of pleurotus for maximum yield in different seasons onpaddy straw under temperate conditions ofKashmir.*International journal of current microbiology and applied sciences.*6(12): 1202-1205.
22. Janeesa N., Faheema M., **Nighat M.,** Labiba R and Nayeema J. (2018). Influence of different levels of Nitrogen fertilisation on initiation of germination and branching number in Coriander (*Coriandrum sativum* L.) var. Shalimar Dhania-1.*The pharma Innovation.*7(8):102-104
23. Shaheen Kousar, Farahanaz Rasool, Syed Aafia, **Mushtaq ,N** and Naveena Nazim (2018). Evaluation of different botanicals against *Verticillium fungicola* causal pathogen of dry bubble disease of buttonmushroom.*The pharma innovation,*7(4):34:36
24. Kawsar Rasool, Farahanaz Rasool, Nazir Ahmed Bhat, **Mushtaq,N.,** TA Wani, Safeer Alam, Sushil Kumar, Amal Saxena,

Shubana Bhat, Shanaz Yousuf.(2018).IDM: A new approach to disease management .International journal of chemical studies.2(2):7-11.

25. **Mushtaq,N.**, Faheema M., Rehana J., Khan SH., Ashutosh K., Bhat RA and Tariq AB( 2018). Physiological response and cost benefit analysis of tomato seed crops in relation to foliar application of B and Zn under temperate open field conditions. Agriculture research and technology 14(2):1-3.
26. Rehana Jan, Tahir Ali, **Nighat Mushtaq**, Shakeel Ahmad Bhat,Baseerat Binte Nabi and Khushboo Farooq (2019).Effect of Integrated Nitrogen Management on Growth Performance of French Bean (*Phaseolus vulgaris* L.) Var. Contendor under Temperate Conditions of Kashmir Valley.Current Journal of Applied Science andTechnology 38(6): 1-9 .
27. Farahanaz Rasool, **Nighat Mushtaq**, Divya Slathia and Sharafat Hussain .(2019.)Diseases of Major Bulbous Vegetable Crops and Their Management International Journal of Plant & Soil Science 27(4): 1-7.
28. Tariq A. Bhat, F. Mushtaq, M. A. Hajam, S. B. Zehra, **Nighat** M. And A. M. Rather(2016)Standardisation Of Organic Sources And Pruning Patterns On Grading And Quality Of Sweet Pepper (*Capsicum Annuum* Var. Grossum) Cv. Shalimar Hybrid-2 Under Protected Conditions .The bioscan11(3): 1771-1774.

## Book Chapters

1. Bhat, R.A., Dervash, M., Qadri, H., **Mushtaq, N.** and Dar, G.H. (2018). Macrophytes, the Natural Cleaners of Toxic Heavy Metal (Thm) Pollution from Aquatic Ecosystems. In: Environmental contamination and Remediation. Cambridge Scholars Publishing. U.K:189-209.
2. **Mushtaq, N.** Bhat, R.A.,Dervash, M.A.,Qadri, H. and Dar. G.H. (2018). Biopesticides: The Key Component To Remediate Pesticide Contamination in an Ecosystem. In: Environmental contamination and Remediation. Cambridge Scholars Publishing. U.K. 152-178.
3. **Mushtaq, N.** Khursheed Hussain, Baseerat Afroza, Rafiya Mushtaq, Ashutosh Kumar And Divya Slathia. Protoplast Culture: Recent Advances In Improvement Of Vegetables. Advances in horticultural crops 187-204.
4. Bilal Ahmad Lone, Asma Fayaz, Mehreen Manzoor, Najma Andrabi, Sameera Qayoom, Z. A. Dar, Faisal Rasool, Aijaz Lone, Sandeep Kumarand **Nighat Mushatq**. An Overview of Climate Change and Its

Impact on Crop productivity. *Recent Advances in Science and Technology Research Vol. 6*, Print ISBN: 978-93-90206-95-7, eBook ISBN: 978-9390206-96-4

### **Books Published**

1. Foliar application of micronutrients in Tomato. **Nighat Mushtaq** and Faheema Mushtaq, Lambert Academic publishing **ISBN-13;978-613- 983970-4**

### **Reviewer**

Reviewer of Asian Journal of Advances in Agriculture Research

### **Membership**

- Life member in Horticulture Society of India.
- Life member in Indian Society of Vegetable Sciences.