


## Curriculum Vitae

<b>Full Name:</b>	<b>DR. T. S. BISHT</b>			
<b>Designation:</b>	Assistant Professor			
<b>Department:</b>	Horticulture			
<b>Campus:</b>	Chauras Campus			
<b>Telephone:</b>	01370267603	<b>Fax:</b>		
<b>Mobile:</b>	+91 9412938995			
<b>Email</b>	tejpalbisht23@gmail.com			
<b>Education Qualification:</b>	B.Sc. M.Sc., Ph.D. in Horticulture with specialization in Fruit Science			
<b>Teaching Experience:</b>	07 Years	<b>Research Experience:</b>	07 Years	
<b>Research Interest and Fields of Specialization</b>				
<ol style="list-style-type: none"> <li>1. Horticulture</li> <li>2. Fruit Science</li> <li>3. Post Harvest Management</li> <li>4. <i>In-Vitro</i> Propagation</li> <li>5. Under Utilized Horticultural Crops</li> </ol>				
<b>Honours &amp; Awards</b>				
<ol style="list-style-type: none"> <li>1. <b>Young Scientist Award (2016):</b> Indian Society of Tropical Agriculture (ISTA)</li> <li>2. <b>Scientist of the Year Award (2017):</b> Indian Society of Tropical Agriculture (ISTA)</li> <li>3. <b>Himadri Young Scientist Award (2019):</b> Indian Society of Horticultural Research and Development (ISHRD)</li> </ol>				
<b>Membership of professional societies:</b>				
<ol style="list-style-type: none"> <li>1. Life Member: Indian Society for Horticultural Research and Development, Uttarakhand.</li> <li>2. Life Member: Society for Horticultural Research and Development, Modinagar, Gaziabad.</li> <li>3. Life Member: Indian Society of Hill Agriculture, G.B.P.U.A&amp;T, Pantnagar.</li> </ol>				
<b>Research Supervision (M.Sc. Research Supervision): 04</b>				
<b>Research Projects</b>				
<b>Project handling as principal investigator</b>				
<ol style="list-style-type: none"> <li>1. National Initiative on Climate Resilient Agriculture (NICRA) from 27/09/2014 to 19/07/2015 funded by ICAR</li> <li>2. All India Coordinated Research Project on Vegetable Crops (AICRP on Vegetable Crops) from 16/09/2016 to 05/03/2020 funded by ICAR</li> <li>3. All India Coordinated Research Project on Potato (AICRP on Potato) from 16/09/2016 to 05/03/2020 funded by ICAR</li> <li>4. All India Network Project ob Outreach of Technologies on Temperate Fruits (AINP on Temperate Fruits) from 16/09/2016 to 05/03/2020 funded by ICAR</li> </ol>				
<b>Project handling as co-principal investigator</b>				
<ol style="list-style-type: none"> <li>1. Livelihood development programme of farmers in dam affected areas of district Tehri Garhwal through integrated farming systems approach from Jan 2016 to Jan 2019 funded by SEWA-THDC</li> </ol>				
<b>Papers Presented in Seminars/Symposium</b>				
<ol style="list-style-type: none"> <li>1. <b>T. S. Bisht, N. S. Bhandari, M. Brijwal, D. Deval, S. Chaube.</b> Concept, Utilization technique and Scope of Fruity Wastes. <i>In:</i> National Seminar on Innovations in Traditional Agriculture held in G.B.P.U.A&amp;T, Pantnagar, sponsored by ICAR on <b>November 15 -16, Pp 162-163.</b></li> </ol>				

2. **T. S. Bisht**, Satish Kumar Sharma and Laxmi Rawat. Low cost method for yield and quality enhancement in wild apricot kernel oil. *In: National Seminar on "Hill Agriculture in Perspective"* dated on **26-28 February, 2016** at G. B. Pant University of Agriculture & Tech., Pantnagar. **pp 884-885.**
3. **T. S. Bisht**, S. K. Sharma and R. C. Sati. Increasing efficiency of decortications and kernel separation techniques in wild apricot. *In: National Symposium on TISA held in College of Forestry and Hill Agriculture, Ranicahuri, G.B.P.U.A &T, Pantnagar.* **3-5 May 2011.p 300.**
4. **T. S. Bisht**, S. K. Sharma and R. C. Sati. Standardization of protocol for oil recovery enhancement by using enzymes. *In: National Symposium on TISA held in College of Forestry and Hill Agriculture, Ranicahuri, G.B.P.U.A &T, Pantnagar.* **3-5 May 2011.p 301.**

#### **Training programmes/workshops attended**

1. Attended **six (06)** days training on "Soil and Water Conservation & Water Harvesting Techniques for Officers/Scientists of KVKs organized at Central Soil and Water Conservation Research & Training Institute from **May 27 to 31, 2014.**
2. Attended **four (04)** days Training Programme on Farmers to Farmer Extension. Organized by National Institute of Agricultural Extension Management, Hyderabad at SAMETI- UK, Pantnagar from **25.11 2013 to 28.11 2013.**
3. Attended **one (01)** day workshop on Kitchen Gardening: Aesthetic to Health, jointly organized by Departments of Horticulture and Vegetable Science on October 17, 2015, G.B.P.U.A &T, Pantnagar.
4. Attended **Twenty One (21)** days CAFT Training Programme on "Quality seed production of vegetable crops". Organized by YS Parmar University of Horticulture and Forestry, Nauni, Solan, Himanchal Pradesh from **06.09. 2017 to 26.10.2017.**
5. Attended **Twenty One (21)** days CAFT Training Programme on "Techniques in Bio-fertilizers and Bio-pesticides production for Organic Agriculture". Organized by Centre of Advanced Faculty training in Organic farming, department of Soil Science, Faculty of Agriculture, Assam Agriculture University, Jorhat from **14.11. 2018 to 04.12.2018.**

#### **Publications during last five years (2011-2020)**

##### **Research Publications in referred journals**

1. **T. S. Bisht**, S. K. Sharma, R. C. Sati, V. K. Rao, V. K. Yadav, A. K. Dixit and A. K. Sharma (2015). Improvement of efficiency of oil extraction from wild apricot kernels by using enzymes. *Journal of Food Science and Technology.* **52(3):1543-1551.** (NAAS Rating=7.85, Citations=16, Impact factor=1.241, ISSN=0022-1155).
2. S. K. Sharma, S. P. Chaudhary, V. K. Rao, V. K. Yadav and **T. S. Bisht (2013).** Standardization of Technology for preparation and storage of wild apricot fruit bar. *Journal of Food Science and Technology.* **50(4):784-790.** (NAAS Rating=7.85, Citations=63, Impact factor=1.241, ISSN=0022-1155).
3. S. K. Sharma, S. P. Chaudhary, A. K. Dixit, V. K. Rao, V. K. Yadav, **T. S. Bisht (2013).** Drying characteristics of wild apricot (*Prunus armeniaca*) fruit bar and economic evaluation of market potential of the enterprise. *Indian Journal of Agricultural Sciences.* **83(3):321-325.** (NAAS Rating=6.22, Citations=2, Impact factor=0.162, ISSN=0019-5022).

4. **T. S. Bisht**, S. K. Sharma and B. Chakraborty (2015). Long term effect of different packaging materials on biochemical properties of wild apricot kernel oil. *International Journal of food and fermentation Technology*. **5(1):69-74. (NAAS Rating=4.03, Citations=2, Impact factor=1.504, ISSN=2249-1570).**
5. **T. S. Bisht**, P. N. Singh and L. Rawat (2016). Effect of explants type and surface sterilants on asepsis and survival culture for callus induction in peach. *Journal of Hill Agriculture*. **7(1):36-40. (NAAS Rating=4.94, Citations=1, ISSN=0976-7606).**
6. **Tejpal Singh Bisht**, Laxmi Rawat and Pramod Narayan Singh (2016). Effect of collection season, type and length of explants on callus induction and its survival in peach. *Journal of Hill Agriculture*. **7(2):215-221. (NAAS Rating=4.94, ISSN=0976-7606).**
7. **Tejpal Singh Bisht**, Satish Kumar Sharma and Laxmi Rawat (2016). Effect of enzyme treatment on oil recovery and quality parameters from wild apricot kernel cake. *International Journal of fermented food*. **5(2):73-77. (NAAS Rating=3.53, Citations=1, Impact factor=1.504, ISSN=2319-3549).**
8. K. Issar, M. C. Nautiyal, S. K. Sharma, **T. S. Bisht** (2011). Effect of chemicals, GA treatment and packaging on shelf life and quality of apple. *Journal of Hill Agriculture*. **2(1):63-73. (NAAS Rating=4.94, Citations=3, ISSN=0976-7606).**
9. Laxmi Rawat, **Tejpal Singh Bisht**, A. Kukreti and M. Prasad (2016). Bioprospecting drought tolerant *Trichoderma harzianum* isolates promote growth and delay the onset of drought responses in wheat (*Triticum aestivum* L.) *Molecular Soil Biology*. **7(4):1-15. (Citations=2).**
10. K. Kumari, R. Limbu, A. Yewale and **T. S. Bisht** (2015). Women in Agriculture. *Trends in Biosciences*. **8(19):5226-5234. (NAAS Rating=3.94, Citations=1, ISSN=0974-8431).**
11. Laxmi Rawat, **Tejpal Singh Bisht**, R. G. Upadhyay and Akshit Kukreti (2016). Selection of salinity tolerant *Trichoderma* isolates and evaluating their performance in alleviating salinity stress in rice (*Oryzae sativa* L.). *International Journal of Tropical Agriculture*. **34(6):1869-1889. (NAAS Rating=3.49, ISSN=0254-8755).**
12. Laxmi Rawat, **Tejpal Singh Bisht**, R. G. Upadhyay and Akshit Kukreti (2016). *Trichoderma harzianum* enhancing plant growth parameters and reducing deleterious effect of natural saline-sodic soil in rice. *International Journal of Tropical Agriculture*. **34(6):1855-1867. (NAAS Rating=3.10, Citations=1, ISSN=0254-8755).**
13. Akshit Kukreti, Neelam Kurmanchali, Laxmi Rawat and **Tejpal Singh Bisht** (2017). Evaluation of fluorescent *Pseudomonas* spp. against *Pyricularia grisea*, *Rhizoctonia solani* and *Sclerotium rolfsii* causing blast, Sheath blight and foot rot diseases of finger millet (*Eleusine coracana* L.) crop in mid hills of Uttarakhand: *In vitro* study. *Bulletin of Environment, Pharmacology and Life Sciences*, **6(10):29-35. (NAAS Rating=4.95, Impact factor=0.876, ISSN=2277-1808).**
14. Laxmi Rawat, **T.S. Bisht**, Shambhoo Prasad, T. Samuel and S.K. Patro (2018). Management of Important Endemic Diseases of Barnyard Millet (*Echinochloa frumentacea* L.) by the Use of Bio-Control Agents in Mid Hills of Uttarakhand, India. *International Journal of Current Microbiology and Applied Sciences*. **7(2):64-70. (NAAS Rating=5.38, ISSN=2319-7706).**

15. Laxmi Rawat, Ankit Tiwari, **Tejpal Singh Bisht**, Shambhoo Prasad and Vikas Yadav (2018). Effect of bio-priming and colonized FYM with bio-control agents on quantitative and qualitative traits and disease management in barnyard millet (*Echinochloa crusgalli* L.). *International Journal of Agricultural Sciences*. 14(2):335-343. (NAAS Rating=4.82, Citations=1, ISSN= 0975-3710).
16. Laxmi Rawat, Shambhoo Prasad, **Tejpal Singh Bisht**, Dinesh Chandra Naithani and J. Kumar (2019). Assessment of Genetic Variability and Divergence in Finger Millet Accessions at Mid Hills of Uttarakhand. *International Journal of Current Microbiology and Applied Sciences*. 7(11):2912-2922 (NAAS Rating=5.38, ISSN=2319-7692).
17. Laxmi Rawat, Anchala Nautiyal, **T.S. Bisht**, Shambhoo Prasad, Dinesh Naithani, Kuldev Makhloga and Ankit Tewari (2019). Screening of Barnyard Millet Germplasm against Shoot Fly and Stem Borer Damage under Field Conditions. *International Journal of Current Microbiology and Applied Sciences*. 8(2):1221-1226 (NAAS Rating=5.38, ISSN=2319-7692).
18. Laxmi Rawat, Shambhoo Prasad, **T. S. Bisht**, Dinesh Chandra Naithani and Ankit Tiwari (2019). An impact assessment of Front Line Demonstrations on Yield and Economics of Finger Millet and Barnyard Millet under Rainfed Conditions of Uttarakhand. *International Journal of Pure & Applied Biosciences*. 7(2):408-414 (NAAS Rating=4.74, ISSN=2320-7051).
19. Laxmi Rawat, Ankit Tiwari, **TS Bisht**, Anchala Nautiyal and Dinesh Chandra Naithani (2019) Enhancement of growth, yield and yield contributing traits with particular reference by using *Trichoderma* and *Pseudomonas* through seed bio-priming technique and value added FYM in finger millet (*Eleusine coracana* L.) under field conditions. *Journal of Pharmacognosy and Phytochemistry*. 8(4):3333-3337 (NAAS Rating=5.21, ISSN=2349-8234).
20. Laxmi Rawat, **Tejpal Singh Bisht**, Dinesh Chandra Naithani and Ankit Tiwari (2019) Evaluation of promalin doses for improving fruit size, shape and yield of apple *Progressive Research – An International Journal* 14(4): 258-261 NAAS Rating=3.84, ISSN=0973-6417)
21. **TS Bisht**, Laxmi Rawat, Dinesh Chandra Naithani, RK Prasad and Ankit Tiwari (2020). Bio-efficacy evaluation of Chlorothalonil 40% w/w + Difenoconazole 4% w/w SC against apple diseases *International Journal of Chemical Studies*. 8(1): 398-405 NAAS Rating=5.31, ISSN=2349-8528).

#### **Review articles in referred journals**

1. **Tejpal Singh Bisht**, Laxmi Rawat, Binayak Chakraborty, Vikas Yadav (2018). A Recent Advances in Use of Plant Growth Regulators (PGRs) in Fruit Crops - A Review. *International Journal of Current Microbiology and Applied Sciences*. 7(5): 1307-1336 (NAAS Rating=5.38, Citations=9, ISSN=2319-7706).
2. **Tejpal Singh Bisht**, Satish Kumar Sharma, Laxmi Rawat, Binayak Chakraborty, Vikas Yadav (2018). A novel approach towards the fruit specific waste minimization and utilization - A review. *Journal of Pharmacognosy and Phytochemistry*. 2019 9(1):3333-3337 NAAS Rating=5.21, ISSN=2349-8234)

### **Books**

1. **Tejpal Singh Bisht**, Satish Kumar Sharma (2012). **Apricot Oil: Decortication, Enzymatic Extraction and Storage Technology**. Lambert Academic Publishing. ISSN: 978-3-659-27740-5, Pages: 1-106.

### **Laboratory/Technical Manuals**

1. Laxmi Rawat, **Tejpal Singh Bisht**, B. P. Nautiyal and Matthew Prasad (2017). Technical Fact Sheets of Important Vegetable Diseases. VCSG UUHF/DR/2016-17/Technical Manual-01:1-31.

### **Popular Articles**

1. **Tejpal Singh Bisht** (2014). Parvatiyay Shetro Mai Safal seb utpandan hetu paragon vayavastha. *In-* Pahari Kheti Badi. **2(1): 28-31.**
2. **Tejpal Singh Bisht** (2014). Sitosan Phal virakshon k uchit parbandhan hetu garah nirmit fafundnasak. *In-* Pahari Kheti Badi. **2(1): 32-33.**
3. **Tejpal Singh Bisht** (2014). Zero Energy Cool Chamber: Falo awam Sabjiyon ke Bhandaran hetu ek Saral Wa Sati Takniki. *In-* State level symposium, Uttarakhand Mai Audhyanik Vikas, **18-19 Dec. 2014**, organized by Udhan Ewam Khaday Sanskaran Vibhag, Dehradun. **Pp- 129-130.**
4. **Tejpal Singh Bisht** (2016). Safal Seb Utpadan hetu Paragan Vyavastha awam Ekikrit Posan Prabandhan. *In-* Rastriyay Sangosthi, **17-18 Sep. 2016**, organized by Udhan Ewam Khaday Sanskaran Vibhag, Dehradun. **Pp- 29-31.**
5. Laxmi Rawat and **Tejpal Singh Bisht** (2016). Seb Mai Lagne Wale Rog evam Unka Prabandhan. *In-* Rastriyay Sangosthi, **17-18 Sep. 2016**, organized by Udhan ewam Khaday Sanskaran Vibhag, Dehradun. **Pp 49-51.**
6. Laxmi Rawat and **Tejpal Singh Bisht** (2017). Parvatiyay Shetro Mai Madhuvatika Prabandhan. *In-* State level symposium and Exhibition, **19 August, 2017**, organize by Udhan ewam Khaday Sanskaran Vibhag, Dehradun. **Pp 22-24.**
7. **Tejpal Singh Bisht** and Laxmi Rawat (2018). Parvatiyay Shetro Mai Madhumakhi Palan; ek Labhkari Vayavsay. *In-* State level symposium and Exhibition, **20 May, 2018**, organized by Udhan ewam Khaday Sanskaran Vibhag, Dehradun. **Pp 42-51.**
8. **Tejpal Singh Bisht**, Laxmi Rawat and Arvind Bijalwan (2019). Sitosan Phal utpandan Takniki. *In-* Uposan Katibandhiya shetron men Lavan Parbhavit Mirdaon men nimn gunwata wale Jal ka uptyog karke phaldar vrikshon kei kheti ki sambhavnayen. **Pp 13-24.**
9. Arvind Bijalwan, **Tejpal Singh Bisht** and Laxmi Rawat (2019). Sitosan Bagichon ka Uchit parbandhan. *In-* Uposan Katibandhiya shetron men Lavan Parbhavit Mirdaon men nimn gunwata wale Jal ka uptyog karke phaldar vrikshon kei kheti ki sambhavnayen. **Pp 25-29.**

10. **Tejpal Singh Bisht**, Laxmi Rawat (2019). Seb ke bagichon men Ekikrit posak tatwa prabandhan. *In-* Uposan Katibandhiya shetron men Lavan Parbhavit Mirdaon men nimn gunwata wale Jal ka uptyog karke phaldar vrikshon kei kheti ki sambhavnayen. **Pp 47-49.**
11. **Tejpal Singh Bisht**, Laxmi Rawat and Sushil Kumar Gupta (2019). Sitosan Phal Vrikshon men Sanghai va Kant-Chant. *In-* Uposan Katibandhiya shetron men Lavan Parbhavit Mirdaon men nimn gunwata wale Jal ka uptyog karke phaldar vrikshon kei kheti ki sambhavnayen. **Pp 50-55.**
12. Laxmi Rawat, and **Tejpal Singh Bisht** (2019). Sitosan Phal Vrikshon ke uचित parbandhan hetu – Grah nirmitt fafundnasak. *In-* Uposan Katibandhiya shetron men Lavan Parbhavit Mirdaon men nimn gunwata wale Jal ka uptyog karke phaldar vrikshon kei kheti ki sambhavnayen. **Pp 60-61.**
13. **Tejpal Singh Bisht**, Laxmi Rawat (2019). Parivartit Jalwayu men Sitosan Phal utpadan; Samsya evam samadhani. *In-* Uposan Katibandhiya shetron men Lavan Parbhavit Mirdaon men nimn gunwata wale Jal ka uptyog karke phaldar vrikshon kei kheti ki sambhavnayen. **Pp 62-65.**
14. Rawat, L., Karnatak, A. K., Nautiyal, B.P. and **Bisht, T. S.** (2020). Success Story of Barnyard Millet (Var. PRJ - 1). Vigyan Varta, **1(2): 07-10.**
15. Rawat, L., Karnatak, A. K., Nautiyal, B. P. and **Bisht, T. S.** (2020). Small millets: Making a potential comeback in state Uttarakhand Vigyan Varta, **1(2):11-16.**

#### **Pamflets**

1. पर्वतीय क्षेत्रों में सब्जी पौध तैयार करने की तकनीकी **VCSG UHF/KVK-TG/15/2016**
2. पर्वतीय क्षेत्रों में प्याज की वैज्ञानिक खेती **VCSG UHF/KVK-TG/10-N/2016**
3. पर्वतीय क्षेत्रों में फूलगोभी की वैज्ञानिक खेती **VCSG UHF/KVK-TG/04-N/2016**
4. पर्वतीय क्षेत्रों में लहसुन की उन्नत खेती **VCSG UHF/KVK-TG/08-N/2016**
5. पर्वतीय क्षेत्रों में सब्जी मटर का सफल बीजोत्पादन **VCSG UHF/KVK-TG/12/2016**
6. पर्वतीय क्षेत्रों में कीवी फल की वैज्ञानिक खेती **VCSG UHF/KVK-TG/09-N/2016**
7. पर्वतीय क्षेत्रों में सफल सेब उत्पादन हेतु परागण व्यवस्था **VCSG UHF/KVK-TG/11/2016**
8. शीतोष्ण फलवृक्षों के उचित प्रबंधन हेतु—गृह निर्मित फफूंदनाशक **VCSG UHF/KVK-TG/14/2016**
9. सफल सेब उत्पादन हेतु पोषक तत्वों का एकीकृत प्रबंधन **VCSG UHF/KVK-TG/13/2016**
10. जीरो एनर्जी कूल चैम्बर (ZECC) फलों एवं सब्जियों के भण्डारण हेतु एक सस्ती तकनीक **VCSG UHF/KVK-TG/16/2016**
11. झंगोरा; उत्तराखण्ड के पर्वतीय क्षेत्रों की पराम्परागत फसल **2018**
12. अदरक के कन्द सड़न रोग का समेकित नाशीजीव प्रबंधन **2018**
13. मोटे अनाज की खड़ी फसल के प्रमुख कीट एवं उनका प्रबंधन **UHF/COF/PP/Pamphlet No. 01/2019**

#### **Total Number of Research Publications: 21**

- |   |                          |
|---|--------------------------|
| 1. Research papers in referred journals                   | : <b>Twenty One (21)</b> |
| 2. Review articles in referred journals (NAAS rating)     | : <b>Two (02)</b>        |
| 3. Books  | : <b>One (01)</b>        |
| 4. Laboratory Manuals (Published by Publishers/Institute) | : <b>One (01)</b>        |

#### **Additional academically relevant achievements/information's**

- ✓ Team member to developed new Triple cross hybrid of Apple from Ranichauri centre.
- ✓ Team member to developed variety of **Mustard Green/Vegetable Rai (*Brassica juncea* L.) var. UHF VR 12-1 (IC-0598459) and Radish (*Raphanus sativus* L.) var. UHF R 12-1 (IC-0598463)** from Ranichauri centre using as a national check under AICRP.
- ✓ Evaluated elite lines of important underutilized vegetables including Vegetable Rai (*Brassica juncea*), Local Radish, Pahari Palak (*Spinacea oleracea*), Pahari Kheera (Cucumber) and Meetha Karela (*Cyclanthera pedata*).
- ✓ Developed cultural practices in Vegetable crops for different situations of Uttarakhand hills.
- ✓ Performed duty as a sector magistrate in lok sabha, vidhan sabha and panchayat election.
- ✓ Performed numbers of responsibilities during service period like, OIC Transport, OIC Tissue Culture Lab. OIC Vegetable research block and OIC Fruit research block etc.
- ✓ Having expertise in development of varieties with respect to screening, evaluation, processes and field evaluation with applications for welfare of farmer community with output based research and development.
- ✓ Well versed with plant bio regulators (PBRs) and its practical uses in different horticultural crops.
- ✓ Having expertise in development of tissue culture varieties, to promote high density apple plantation through production of quality tissue cultured dwarfing apple rootstocks.