

## Publications

### Research Papers ( International / National)

- Debnath S, Mandal B, Saha S, Sarkar, Batabyal K, Murmu S, Patra B C, Mukherjee D and Biswas T 2021. Are the modern-bred rice and wheat cultivars in India inefficient in zinc and iron sequestration? *Environmental and Experimental Botany* 189: 1-7.
  - Fayaz H, Mir A H, Tyagi S, Wani A A, Jan N, Yasin M, Mir J I, Mondal B, Khan M A, and Mir R R 2021. Assessment of molecular genetic diversity of 384 chickpea genotypes and development of core set of 192 genotypes for chickpea improvement programs. *Genetic Resources and Crop Evolution* 69:1193-1205.
  - Indrabi S A , Malik A A, Malik G, Hussain K , Narayan S, Nabi A, Akhter A , Sultan A and Javeed I 2021. Genetic divergence among chilli (*Capsicum annuum* L.) genotypes based on quantitative and qualitative traits. *The Pharma Innovation Journal* 10(10): 1033-1038.
  - Kumar P, Chakraborty S K and Kate A 2022. Influence of infrared (IR) heating parameters upon the hull adherence and cotyledon integrity of whole pigeon pea (*Cajanus cajan* L.) grain. *LWT Food Science and Technology* 154 : 112792.
  - Kumar R, Tiwari R K, Jeevalatha A, Sunderaresha S, Shah M A, Sharma S, Sagar V, Kunar M and Chakarabarti S K 2021. Potato apical leaf curl disease: current status and perspectives on a disease caused by tomato leaf curl New Delhi virus. *Journal of Plant Diseases Protection* 128: 897-911.(<https://doi.org/10.1007/s41348-021-00463-w>)
  - Malik G, Yousuf S, Wani S H, Shabir A, Shah R A., Nabi S U, and Sharma A 2021. Effect of sulphur supplementation on yield and quality enhancement of bolting garlic (*Allium sativum* L. spp. *ophioscorodon*) in Indian Himalayan long day temperate climate. *Chemical Science Review and Letters* 10 (39): 295-298.
  - Mohiddin F A, Majid R, Bhat A H, Dar M S, Shikari A B, Sofi N R, Nabi S U *et al.* 2021. Molecular phylogeny pathogenic variability and phytohormone production of *Fusarium* species associated with bakanae disease of rice in temperate agro-ecosystems. *Mol Biol Rep* 48: 3173-3184.
  - Mohiddin F A, Padder S A, Bhat A H, Ahanger M A, Shikari A B, Wani S H, Bhat F A, Nabi SU, Hamid A, Bhat N A, Sofi N R, Waza S A, Hamid B, Parveen S, Hussain A, Bhat A N, Ali O M, Dar M S, **Abdel Latef AAH** 2021. Phylogeny and optimization of *Trichoderma harzianum* for chitinase production: Evaluation of their antifungal behaviour against the prominent soil borne
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phytopathogens of temperate India. *Microorganisms* 9(9):1962. (<https://doi.org/10.3390/microorganisms9091962>).

- Mushtaq R, Sharma M K, Mir J I, Mansoor S , Mushtaq K, Popescu S M, Malik A R, El-Serehy H A, Hefft D I, Bhat S A and Narayan S 2021. Physiological activity, nutritional composition and gene expression in apple (*Malus × domestica* Borkh) influenced by different ETc levels of irrigation at distinct development stages. *Water* 13:3208
  - Nabi S U, Madhu G, Rao G P and Baranwal V K 2021. Development of multiplex RT-PCR assay for simultaneous detection of four viruses infecting apple (*Malus domestica*). *Letters in Applied Microbiology*. <https://doi.org/10.1111/lam.13643>
  - Narayan R, Debnath S, Kumar A, Kishore A and Sharma O C 2021. Effect of organic growing media for cost effective production of quality tomato seedlings in portrays under natural ventilated polyhouse. *Progressive Horticulture* 53(2):176-182.
  - Raja W H, Yousuf N, Qureshi I, Sharma O C, Singh D B, Kumawat K L, Nabi S U, Mir J I, Sheikh M A, Kirmani S N and Sheikh M 2021. Morpho-molecular characterization and genetic diversity analysis across wild apple (*Malus baccata*) accessions using simple sequence repeat markers. *South African Journal of Botany* ((<https://doi.org/10.1016/j.sajb.2021.08.020>)).
  - Sadawarti M, Katare S, Singh S P, Shah M A, Samadhiya R K, Sharma S and Singh R K 2021. Efficacy of mineral and non-edible seed oils against aphids and whitefly in potato. *Indian Journal of Entomology*,(<https://doi.org/10.5958/IJE.2021.97>).
  - Shah M A, Katare S, Bhatngar A, Sharma S, Sadawarhi M J and Singh S P 2021. Efficacy of soil insecticides against sucking pests of potato. *Indian Journal of Entomology* <https://doi.org/10.5958/0974-8172.2021.00154.1>
  - Shah M A, Kaur R P, Devi S, Kumar R and Sharma S 2021. Efficacy of rice straw mulch for the control of vector and virus incidence in potato. *Potato Journal* 48(1): 76-80.
  - Shah M A, Naga K C, Subhash S, Sharma S and Kumar R 2021. Use of petroleum-derived spray oils for the management of vector-virus complex in Potato. *Potato Res.* 65: 1-19. (<https://doi.org/10.1007/s11540-021-09505-0>).
  - Shah M A, Sharma S and Kumar R 2021. Seasonal population dynamics and flight activity of sweet potato whitefly, *Bemisia tabaci* on potato in the sub-
-

tropical plains of India. *Arthropod-Plant Interactions* 15: 605–613. (<https://doi.org/10.1007/s11829-021-09835-3>)

- Sharma A, Kumar S, Khan S A, Kumar A, Mir J I, Sharma O C, Singh D B and Arora S 2021. Plummeting anthropogenic environmental degradation by amending nutrient-N input method in saffron growing soils of north-west Himalayas. *Scientific Reports* 11:2488
  - Sharma A, Kumar S,, Mir J I, Kumar R, Sharma O C, Lal S, Kumawat K L, Ahmed N, Singh D B, Ganie M A and Razvi S 2021. Restricting depletion of soil organic carbon by amending nutrient-N input to soils. *Land Degradation & Development* 32(11): 3204-3219
  - Sheikh Z N, Sharma V, Shah R A, Raina S, Aljabri M, Mir J I, Kenani N A and Hakeem K R 2021. Elucidating genetic diversity in apricot (*Prunus armeniaca* L.) cultivated in the north-western Himalayan provinces of India using SSR markers. *Plants* 10 (12): 2668
  - Sheikh Z N, Sharma V, Shah R A, Sharma N, Summuna B, Al-Misned F A, El-Serehy H A and Mir J I 2021. Genetic diversity analysis and population structure in apricot (*Prunus armeniaca* L.) grown under north-western himalayas using ISSR markers. *Saudi Journal of Biological Sciences* 28(10): 5986-92
  - Sudhakara N R and Krishnamurthy R 2021. Sulphur status and effect of different sources and levels of sulphur application on performance of aerobic rice (*Oryza Sativa* L.). *Mysore Journal of Agricultural Sciences* 55(3):75-82
  - Tiwari J K, Mandadi N, Sridhar J, Mandal V, Ghosh A, Kardile H B, Naga K C, Shah M A, Kumar M, Rao A R and Rai A 2021. Draft genome sequencing of the foxglove aphid (*Aulacorthum solani* Kaltentbach), a vector of potato viruses, provides insights on virulence genes. *Journal of Asia-Pacific Entomology* 24(2): 93-102.
  - Waghmode B, Masoodi L, Kushwaha K, Mir J I and Sircar D. 2021. Volatile components are non-invasive biomarkers to track shelf-life and nutritional changes in apple cv. 'Golden Delicious' during low-temperature postharvest storage. *Journal of Food Composition and Analysis* 102: 104075
  - Wani S, Saleem S, Nabi S U, Ali G, Paddar B A, Hamid A 2021. Distribution and molecular characterization of potato virus Y (PVY) strains infecting potato (*Solanum tuberosum*) crop in Kashmir (India). *Virus Disease*. 32(4):784-788
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- Wani T A, Masoodi F A, Dar M M, Akhter R and Sharma O C 2021. Subcritical treatment of olive oil: minor phenolics composition and antioxidant properties of solvent extracts. *LWT- Food Science and Technology* 147:111584