

List of publications of Dr. Somnath K. Holkar

Orthotospoviruses (WBNV and GBNV)

1. **Holkar, S. K.**, Mandal, B., Krishna Reddy, M. and Jain, R.K. (2019). Watermelon bud necrosis orthotospovirus - an emerging constraint in Indian subcontinent: An overview. *Crop Protection*, 117, 52-62.
2. **Holkar, S. K.**, Basavaraj, Y. B., Mandal, B. and Jain, R.K. (2018a). Optimization of a more efficient protocol for mechanical inoculation for watermelon bud necrosis orthotospovirus and its validation with different watermelon genotypes. *Crop Protection*, 108, 110–119.
3. **Holkar, S. K.**, Choudhary , H., Mandal, B. and Jain, R. K. (2018b). Evaluation of watermelon genotypes against bud necrosis disease caused by a distinct watermelon bud necrosis orthotospovirus under field and glasshouse conditions. *Scientia Horticulturae*, 235, 106-115.
4. **Holkar, S. K.**, Mandal, B. and Jain, R.K. (2018c). Development and validation of marker-free constructs based on nucleocapsid protein gene of watermelon bud necrosis orthotospovirus in watermelon. *Current Science*, 114, 1442-1447.
5. Basavaraj, Y. B., Kumar, A., **Holkar, S. K.**, Jain, R. K. and Mandal, B. (2017). First report of *Groundnut bud necrosis virus* infecting periwinkle (*Catharanthus roseus*) in India. *Plant Disease*, 101(8): 1559.
6. **Holkar, S. K.**, Kumar, R., Yogita, M., Katiyar, A., Jain, R. K. and Mandal, B. (2017). Diagnostic assays for two closely related tospovirus species, *Watermelon bud necrosis virus* and *Groundnut bud necrosis virus* and identification of new natural hosts. *Journal of Plant Biochemistry and Biotechnology*, 26(1): 43-51.
7. Jain, R. K, Mandal, B., Pappu, H. R. and **Holkar, S. K.** (2015). A new species proposal for inclusion of *Watermelon bud necrosis virus* (WBNV) in the genus *Tospovirus* as a distinct virus species isolated from *Citrullus lanatus* and other cucurbitaceous hosts. Modules attached. Approved by the International Committee on Taxonomy of Viruses (ICTV), (www.ictv.talkonline.com).
8. Akhter M. S., **Holkar, S. K.**, Akanda, A. M., Mandal, B. and Jain, R. K. (2012). First Report of *Groundnut bud necrosis virus* in Tomato in Bangladesh. *Plant Disease*. 96: 6 pp. 917.

Sugarcane and Mushroom

9. Shingote, P. R., Amitha Mithra, S.V., Sharma, P., Devanna, N. B., Arora, K., **Holkar, S. K.**, Khan, S., Singh, J., Kumar, S., Sharma, T.R. and Solanke, A. U. (2019). LTR retrotransposons and highly informative ISSRs in combination are potential markers for genetic fidelity testing of tissue culture raised plants in sugarcane. *Molecular Breeding*, 39(2): 25
10. Joshi, D., Gupta, J., Mishra, A., Upadhyay, M., **Holkar, S. K.**, Singh, P (2019). Distribution, composition and bioactivity of endophytic *Trichoderma* spp. associated with sugarcane. *Proceedings of National Academy of Sciences, India B. Biological Sciences*, 89: 1189-1200
11. Joshi, D., Singh, P., **Holkar, S. K.**, Kumar, S. (2018). Trichoderma-Mediated suppression of red rot of Sugarcane under field conditions in subtropical India. *Sugar Tech* 21:496-504
12. **Holkar, S. K.**, Mishra, A. K., and Lal, R. J. (2017). Detection and partial characterization of Sugarcane mosaic virus in sugarcane genotypes. *Journal of Environmental Biology*, 38(3): 409-417.
13. **Holkar, S. K.** and Ram Chandra. (2016). Comparative evaluation of five *Pleurotus* species for their growth behaviour and yield performance using wheat straw as a substrate. *Journal of Environmental Biology*, 37(1): 7-12.
14. Kumar S, Tiwari A. K, **Holkar S. K.**, Dattamajumder, S. K. and Rao, G. P. (2015). Characterization of 16SrI-B Group Phytoplasma Associated with Sugarcane Leaf Yellowing Disease in India. *Sugar Tech.*, 17:156-161.
15. Ram, R. C. and **Holkar, S. K.** (2009). Bio-efficacy of the casing materials for growth stages, physical parameters and yield of *Agaricus bisporus* (Lange). *Imbach. Mushroom Research-An International Journal*, 18(2): 65-68.

Book Chapters

- Basavaraj., Mandal, B., Gawande, S.J., Renukadevi, P., **Holkar, S. K.**, Krishnareddy, M., Ravi, K.S. and Jain, R.K. (2017) The occurrence, biology, serology and molecular biology of tospoviruses in Indian agriculture. In: Mandal B., Rao G. P., Baranwal V. K., Jain R.K. (eds.) *A Century of Plant Virology in India*. pp. 445-474. Springer, Singapore.
- Holkar, S. K.**, Pratibha Kaushal and Kumar S. (2017) Host preference by evolving insect vectors in relation to infection of plant viruses In: *The Phytopathogen: Evolution and Adaptation*. (Eds. Ghatak A. and Ansar M.) Publisher: Apple Academic Press, USA pp. 259-302.
- Chattopadhyay A, **Holkar S.K.** and Meena S.C. (2014). Recent molecular breeding and biotechnological approaches in mushroom research In: *Microbial Biodiversity in Sustainable Agriculture*. (Ed. Ram Chandra) Daya Publishing House, New Delhi. pp: 323-343.

Book

Solomon, S., Jain, R., Chandra, A., Shukla, S.K., Lal, R.J., Venugopalan, V.K., Nithya, K., **Holkar, S.K.**, Singh, M.R., Prakash, B. and Asfaque, M. (2014). Sugarcane: A voyage from sett to sweetners. IISR, Lucknow, pp. 111.

Proceedings/Compendium/Policy Papers

Jain, R., Rao, G.P., Singh, S.N., Shukla, S.K., Swapna, M., Nithya, K., Visha Kumari, V., **Holkar, S.K.**, Singh, P., Ashfaque, M., and Prakash, B. (2014). Proceedings of International conclave on Sugar crops Sweetners and Green energy from Sugar crops: Emerging Technologies. pp. 205.

Popular Articles

Thorat, Y.E., Borase, D.N. and Holkar, S.K. (2019). *Usavaril humani alichya prabhavi niyantranasathi combo trapcha vapar*. Baliraja (*Marathi Magazine*). 6: 73-76.

Kumar, S. **Holkar, S.K.** and Khan, M.S. (2017). Micropropagation technique for development of disease free and genetically uniform seed cane. *Indian Farming*. 67(02): 37-40.

Pathak, A.D., Singh, M.R., Sah, A.K. and **Holkar, S. K.** (2016). *Ganne Mein Nasi Kiton Evam Bimarion Ka Samekit Prabandhan* published by IISR, Lucknow on March.

Kumar, S. and Holkar, S.K. (2015). *Kele Ka Uttak Sanvardhan: Takanik evam Upyogita*. Ikshu, Vol. 4(2): 45-49.