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EDUCATIONAL QUALIFICATION : B. Sc. (Ag.) Hons., M. Sc. (Biochemistry), Ph. D. (Biochemistry)

PROFESSIONAL EXPERIENCE (POST HELD WITH PERIOD): 1 year (June, 2013 to May, 2014) Post Doctoral experience in plant developmental biology as DBT-RA fellow at Department of Microbiology and Cell Biology (MCB), Indian institute of Science (IISc), Bangalore.

AREA OF SPECIALIZATION: Host Pathogen interactions and disease development in plants

AREA OF INTEREST: To understand molecular functioning of plant defense pathways during biotic and abiotic stresses

LIST OF PUBLICATION:

Journal Papers

1. **Sahana, N**. and Praveen, S. (2014) Cloning, Characterization and in vitro Expression of Two Subunits of 20S Proteasome Complex from Papaya. *Pusa AgriScience*, 36: 1-10.

2. **Sahana, N.**, Kaur, H., Jain, R.K., Palukaitis, P., Canto, T. and Praveen, S. (2014) The asparagine residue in the FRNK box of potyviral helper-component protease is critical for its small RNA binding and subcellular localization. , *Journal of General Virology*, 95: 1167-77.

3. **Sahana, N.**, Kaur, H., Basabraj, Y.B., Tena, F., Jain, R.K., Palukaitis, P., Canto, T., Praveen, S. (2013) Inhibition of the host proteasome facilitates Papaya Ringspot Virus acumulation and proteosomal catalytic activity is modulated by viral factor. *PLoS ONE*, 7 (12): e52546. doi:10.1371/journal.pone.0052546.

4. Fernández, F.T., González, I., Doblas, P., Rodríguez, C., **Sahana, N.**, Kaur, H., Francisco, T., Praveen, S. and Canto, T. (2013) The influence of *cis*-acting P1 protein and translational elements on the expression of *Potato virus Y* helper-component proteinase (HCPro) in heterologous systems and its suppression of silencing activity. *Molecular Plant Pathology*, DOI: 10.1111/mpp.12025.

5. Mandal, S., **Sahana, N.**, Rajarani, A.P. and Santha, I.M. (2013) Molecular cloning, characterisation and expression of lipoxygenase 2 (*lox 2*) isozyme from Indian soybean [Glycine max (L.) merril] cv. Pusa 16. *Indian Journal of Biochemistry and Biophysics*, 50: 54-63.

6. Goswami, S., **Sahana, N.**, Pandey, V., Doblas, P., Jain, R.K., Palukaitis, P., Canto, T. and Praveen, S. (2012) Interference in plant defense and development by non-structural protein NSs of groundnut bud necrosis virus. *Virus Research*, 163 (1): 368–373.

Book Chapter

1. **Sahana, N.**, Pandey, V. and Praveen, S. Site directed mutagenesis. (2010). Viral genomics and transgenic development, Advanced Center for Plant Virology, Division of Plant Pathology, Indian Agricultural Research Institute, New Delhi (ISBN 987- 81-88708-60-4).

Conference/Seminar/Symposium

1. **Sahana, N.**, Kaur, H., Jain, R.K., Canto, T. and Praveen, S. (2012) Possible regulatory mechanism of helper component protease of papaya ringspot virus in proteosomal degradation process through interaction with core proteins of the complex. Poster presented at ICPBFS, , New Delhi

2. **Sahana, N.**, Kaur, H., Jain, R.K., Canto, T. and Praveen, S. (2012) "Gain in small RNA binding function of conserved FRNK Box mutant of Helper component protease affects plant development" poster Poster presented at AgTech Global Summit, Aurangabad. (Best poster award).