

Brief Biodata of Dr. J Sridhar, Scientist (Agricultural Entomology)

I have joined Agricultural Research Service as Scientist in 2011 and first posted at ICAR-CPRI, Shimla (Himachal Pradesh). I was associated with research work on mapping aphid/whitefly/thrips vectors of potato viruses and determining their relative transmission efficiencies. I have developed indigenous protocols for detection of potato viruses in individual vectors (aphids, whiteflies, thrips) and also developed aphid map of India on potato (14 aphid species). Generated data on viruliferous nature of aphids, whiteflies, thrips. Reported 14 aphid species (*Aphis craccivora*, *Aphis fabae*, *Aphis gossypii*, *Aphis nerii*, *Aphis spiraeicola*, *Aphis solani*, *Brevicoryna brassicae*, *Lypaphis erysimi*, *Hydaphis coriandri*, *Macrosiphum euphorbiae*, *Myzus persicae*, *Rophalosiphum padi*, *Rophalosiphum rufiabdominalis* and *Rophalosiphum maidis*) from various potato growing regions of the country and also generated data on viruliferous nature and transmission efficiency of *Myzus persicae*, *Aphis gossypii*, *Aulacorthum solani*, *Macrosiphum euphorbiae* (PVY and PLRV) and *Brevicoryna brassicae* (PVY). Twelve of 14 were found to be vectors of PVY and four out of 14 were found to be vectors of PLRV. Associated in sequencing whole genome of *Aulacorthum solani* (316.39 Mb); accession number PVMI00000000. Identified two *M. persicae* tolerant germplasm (TRF 37 and VER 59). Then, I have joined ICAR-NIBSM, Raipur (Chhattisgarh) on 06.07.2017 on transfer. Associated in identification of thirteen moderately resistant accessions of lathyrus to thrips and three accessions of wheat showing high resistance to pink stem borer under field conditions. Identified 11 distinct genetic groups of *B. tabaci* in South and Central India.

Currently working on Mapping of genetic groups of *Bemisia tabaci* in India and determination of relative transmission efficiency of dominant genetic groups; associated in identification of non host resistance to begomoviruses. Authored more than 17 research papers, four book chapters, one book. H-index: 4; i10-index: 3. Research Gate id: https://www.researchgate.net/profile/Jandrajupalli_Sridhar/stats/report/weekly/2020-05-17; Google scholar id: <https://scholar.google.com/citations?user=mVSKUqEAAAAJ>. Recipient of best paper award (2 nos), best team award (1 nos), best presentation award (2 nos), best poster award (1 nos) from recognized societies/institutes. Recipient of IARI merit fellowship for PhD programme, ICAR's Junior Research Fellow award for MSc.