

BRIEF PROFILE



Name of the Scientist	Dr. V. VENKATESWARLU
Designation	Senior Scientist
Personal Information	Email: v.venkateswarlu@icar.gov.in, venkiari@yahoo.com Telephone No. (O): 0883- 2449871 (Ext:122) Mobile No:8894459994
Educational Qualification	M.Sc. and Ph.D.
Discipline	Agricultural Entomology
Division	Crop Management Division, ICAR-CTRI (NIRCA), Rajahmundry-533105
Research Experience	12 years
Areas of expertise for consultancy purpose (5 bullets)	<ul style="list-style-type: none"> • Integrated Pest Management in Commercial crops • Host plant resistance (HPR) and germplasm screening studies • Studies on Insect Biology and Population dynamics • Pesticide application, evaluation and field efficacy studies • Diagnosis of plant viruses and their management studies
Projects Handled as PI	<ul style="list-style-type: none"> • Refinement of ecofriendly management of potato tuber moth, <i>Pthorimaea operculella</i> (Zeller) • Studies on insect transmitted viral diseases in tobacco • Bioecology and management of insect pests in chillies
Projects Handled as Co PI	<ul style="list-style-type: none"> • Population dynamics and management of potato pests • Molecular diagnostics and detection of pathogens in potato • Biology, epidemiology, modelling and management of insect pests, vectors, and cyst nematodes of potato • Re-defining epidemiological parameters and management approaches for potato pathogens • Studies on role of Arthropod diversity in tobacco pest management • Studies on biology and management of Cigarette beetle
Research Publications (top 10 published in scientific journals with NAAS rating)	<p>Author(s), Year. Title. Journal title (full name and in italics) Volume number (bold): Page-page.<to be ended by period></p> <ul style="list-style-type: none"> ❖ Venkateswarlu V, Sharma RK and Sharma K. 2011. Evaluation of Eco- Friendly Insecticides against major insect pests of cabbage. <i>Pesticide Research journal</i>. 23(2):172-180. (NAAS Rating: 5.49). ❖ Baswaraj R, Venkateswarlu V, Sridhar J, Jeevalatha A, Sharma S and Singh BP. 2014. RT-PCR detection of <i>potato leaf roll virus</i> (PLRV) in aphids from Northern and North-Eastern India. <i>Indian Journal of Plant Protection</i>, 42 (4): 430-436. (NAAS Rating: 5.08). ❖ Venkateswarlu V, Sridhar J, Baswaraj R, Jeevalatha A, Malik K, Bhatnagar A, Neelum K, Shrama S, Nagesh M, Singh BP and Chakrabarti SK. 2016. Uniplex and Duplex RT-PCR protocol for

detection of *PLRV* and *PVY* in aphids from potato fields. *Potato Journal*. **43**(2):146-152. (NAAS Rating: 5.08).

- ❖ Bhatnagar A, Sridhar J, Venkateswarlu V, Malik K, Shah MA and Singh BP. 2017. Mapping of aphid species associated with potato in India using morphological and molecular taxonomic approaches. In *Potato Journal* **44** (2): 117-125. (NAAS Rating: 5.08).
- ❖ Subbanna ARNS, Khan MS, Srivastava RM, Mishra PK, Babu K and Venkateswarlu V. 2018. Interspecies diversity of *Bacillus thuringiensis* isolates from North West Indian Himalayas. In *Journal of Environmental Biology* **39**:306-313. (NAAS Rating: 6.70).
- ❖ Sridhar J, Venkateswarlu V, Neelam K, Bhatnagar A, Baswaraj R, Kumar R, Nagesh M, Tiwari JK, Malik K and Chakrabarti SK. 2020. Occurrence of *Aulacorthum solani* on potato: A vector of *Potato virus Y^o* and *Potato leafroll virus* in India. *Indian Journal of Entomology* **83**(3):345-349. (NAAS Rating: 5.08).
- ❖ Venkateswarlu V, Sailaja Jayasekharan B and Sreedhar U. 2021. Monitoring of TLCV and CMV in Virginia Tobacco of SLS and SBS of Prakasam district, Andhra Pradesh. *Tobacco Research* **47**(1): 51-54. (NAAS Rating: 3.33).
- ❖ Tiwari JK, Nagesh M, Sridhar J, Mandal V, Ghosh A, Kardile HB, Naga KC, Shah MA, S Rawat, Venkateswarlu V, Malik K, Bhatnagar A, Singh RK, Chakrabarti SK, Kumar M, Rao AR and Rai A. 2021. Draft genome sequencing of the foxglove aphid (*Aulacorthum solani* Kaltentbach), a vector of potato viruses. *Journal of Asia-Pacific entomology*. **24**(2): 93-102. (NAAS Rating: 7.10).
- ❖ Sridhar J, Venkateswarlu V, Shah MA, Neelam K, Bhatnagar A, Baswaraj R and Chakrabarti SK. 2022. Incidence of the cabbage aphid, *Brevicoryne brassicae* L. in potato crops in India and its efficiency for transmission of *potato virus Y^o*. *International Journal of Tropical Insect Science* "**42**:285-291. <https://doi.org/10.1007/s42690-021-00544> (NAAS Rating: 6.54).
- ❖ Sridhar J, Venkateswarlu V, Shah MA, Neelam K, Baswaraj R, Bhatnagar A, Choudhary JS, Sharma S, Nagesh M and Chakrabarti SK. 2022. Species Composition and Distribution of the Vector Aphids of *PVY* and *PLRV* in India. *Potato Research* <https://doi.org/10.1007/s11540-022-09540-5>. (NAAS Rating: 8.07).

Books/Book Chapters:

- Venkateswarlu V, Sridhar J, Nagesh M, Malik K (2016) Pest Management for Healthy Potato Production, Book Chapter 21: In Text Book: Advances in Quality Potato production and post-harvest management by Pandey NK, Singh DK, Singh BP, Jeevalatha A, Raigond A, Singh B by Agrotech Publishing Academy, Udaipur.204-217 pp.
- Shah MA, Sridhar J, Venkateswarlu V, Malik K, Bhatnagar A and Sharma S (2018) Population ecology of aphid pests infesting potato. In Sustainable Agricultural Reviews 28. Springer International Publishing AG Part of Springer Nature 2018 E Liehtfouse et al., (eds.) https://doi.org/10.1007/978-3-319-90309-5_5 (pp 153-181).
- Subbanna ARNS, Stanley J, Venkateswarlu V, Naik CB, and Khan MS

	<p>(2019) Toxicological Prospects on Joint Action of Microbial Insecticides and chemical pesticides. In <i>Microbes for sustainable Insect Pest Management an Ecofriendly approach- Volume -1</i>, PP-317</p> <ul style="list-style-type: none"> ➤ Nagesh M, Sridhar J & Venkateswarlu V (2018) <i>Entomopathogenic nematodes – basics and a field experience in IPM</i> Chattopadhyay C, Tanwar RK, Sehgal M, Birah A, Bhagat S, Ahmad N and Mehta N. 2018. Handbook of Integrated Pest Management. Published by ICAR-DKMA ➤ Sreedhar U., Venkateswarlu V., Sailaja Jayasekharan B., and Dam S.K. (2021) <i>Tobacco: Important Bacterial and Viral Diseases of National Significance and their Management: Chapter 33 in Textbook : Diseases of Nationally Important Field Crops by M.R. Khan, Z. Haque and F. Ahamad</i> (2021): 551-568 published by Today & Tomorrow's Printers and Publishers, New Delhi - 110 002, India.
<p>Awards/ Honours/ Recognitions (in bullets)</p>	<ul style="list-style-type: none"> • Received the Certificate of merit (2013) : 94th FOCARS in National Academy of Agricultural Research and Management (NAARM), Hyderabad • Best Poster presentation awarded for team research work at National seminar on Problems of Potato-2014 organized by IPA, CPRI, Shimla. • Best Oral presentation awarded for team research work at International conference-2014 organized by ERA, MPUAT, Udaipur. • Best Research paper awarded for team research work at Potato Global conclave -2020 organized by IPA and CPRI- Shimla. • Received the Life Fellow of Entomological Society of India (FESI), New Delhi during 2021 • Received the Outstanding Researcher award in Agricultural Entomology (2022) by Venus International foundation, Chennai during 02nd July 2022 • Received the Young Scientist award (2022) by Society of Scientific development in Agriculture and technology (SSDAT) at HP University, Shimla during International conference ICAAAS from 12th -14th June, 2022
<p>Membership of Professional Societies:</p>	<ul style="list-style-type: none"> ❖ Life member of Indian Society of Tobacco Science (ISTS), Rajahmundry ❖ Life member of Indian Potato association (IPA), Shimla ❖ Life member of Entomological Society of India (ESI), New Delhi ❖ Life member of Applied Zoologist Research Association (AZRA), Bhubaneswar ❖ Life member of Society of Agricultural Research and Social Development, New Delhi