

Profile of Scientist



1. Name of the Scientist : **Satish Namdeo Chavan**

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Phone : +9140-24591239 (O)

2. Personal Bio-data:

a) Position/Designation : Scientist

b) Joining date in ICAR : 01.01.2015 (DOB: 17/06/1989)

c) Discipline and Specialization : Nematology

d) Training/advance exposure in the area of work:

- Professional attachment training on “Taxonomic Studies of Insect-Associated Nematodes’ at Section of Nematology, Department of Zoology, Aligarh Muslim University, Aligarh, UP, from 25th May to 24th August 2015.
- Winter school on ‘Application of Advanced Statistical Tools in Agricultural Research (ASTRA)’ organised by Department of Statistics, College of Agriculture, University of Agricultural Sciences, Dharwad, Karnataka, during 8-28 November 2016.
- Training programme on ‘Analysis of Experimental Data using R’ organised by ICAR-NAARM, Hyderabad during 21-26 February 2019.

e) Contribution to the scientific advancement :

- Isolated and identified entomopathogenic nematode isolates from rice ecologies using morphological and molecular approaches
- Evaluated entomopathogenic nematodes against major insect pests of rice for biocontrol of insect pests of rice

- Screened rice cultivars/lines against rice root-knot nematodes and identified some rice cultivars resistant to rice root-knot nematode *Meloidogyne graminicola* infecting rice
- Evaluated agrochemicals and plant essential oils against plant parasitic nematodes in rice

3. Future Planning of research (in bullets) :

- Development of efficient entomopathogenic nematode isolates and delivery methods for IPM in rice
- Management of nematode pests of rice through integrated nematode management

4. Publications :

Research papers

- Chavan S.N., Somasekhar N. and Katti G. (2018). Compatibility of entomopathogenic nematode *Heterorhabditis indica* (Nematoda: Heterorhabditidae) with agrochemicals used in the rice ecosystem. *Journal of Entomology and Zoology Studies* 6(4): 527-532.
- Mhatre P.H., Patil J., Vijay Kumar R., Venkatasalam E.P., Divya K.L., Jenifer J., Pankaj and Chavan S.N. (2017). The first report of *Steinernema cholashanense* (Rhabditida: Steinernematidae) from India. *Indian Journal of Nematology* 47(2): 254.
- Chavan S.N., Somasekhar N., Senguttuvel P., Chitra Shanker, Padmakumari A.P. and Katti G. (2018). Susceptibility of rice root aphid, *Tetraneura nigriabdominalis* (Sasaki) (Homoptera: Aphididae) to EPN. *Annals of Plant Protection Sciences* 26(1): 229-230.
- Chavan S.N., Somasekhar N., Thorat Y.E., Thube S.H., Bandappa and Mhatre P.H. (2019). Entomopathogenic nematodes: a green strategy for management of insect pests of crops. In: *Advances in Agricultural Entomology Volume IV*. (Ed. Dr. Ghoneim K.). AkiNik Publications, New Delhi, India, PP. 127-157.
- Chavan S.N. and Somasekhar N. (2019). Effect of agrochemicals used commonly in rice ecosystem on *Meloidogyne graminicola*. *Pesticide Research Journal*. 31(2): 282-287.

5. Other relevant activities of Scientist :

Life member of:

- Nematological Society of India
- Society for Advancement of Rice Research