

## Bio-data

Name : **Dr Thania Sara Varghese**  
Designation : Assistant Professor  
Institute : AICRP (HB &P)  
RARS Vellayani  
College of Agriculture, Vellayani  
Date of Birth: 6.10.1978  
Sex : Female  
Nationality : Indian

### Academic Record:

Degree	Year	Name of the School/ College/ University	Aggregate marks	Distinction in subjects, if any	Subjects of thesis if any
M.Sc (Ag)	2003	University of Agricultural Sciences, Dharwad, Karnataka.	95 %	Agricultural Entomolgy	*
PhD	2011	Kerala Agricultural University	91%	“	**

**\*MSc thesis title:** Management of Thrips, *Scirtothrips dorsalis* Hood and Mite, *Polyphagotarsonemus latus* on chilli (*Capsicum annuum* L) using Biorationals and Imidaclorpid.

**\*\*PhD thesis title:** Bioefficacy and safety evaluation of biorational insecticides for the management of sucking pest complex of chilli (*Capsicum annuum* L)

### Honours /Awards

- **KAU Merit Scholarship** for under graduate (BSc Agriculture) programme.
- **Junior Research Fellowship (JRF)** by *Indian Council of Agricultural Research* (ICAR) from 2001 to 2003 (All India Rank 13<sup>th</sup> in ICAR All India Entrance Examination 2001).
- **Recipient of University Gold medal** for First rank in Agricultural Entomology – From UAS, Dharwad.
- **Recipient of Prof E.J Vevai memorial Gold medal** in Agricultural Entomology-From UAS Dharwad.

- **Recipient of Mutualik Desai memorial Gold medal in Agricultural Entomology- From UAS Dharwad.**
- Recipient of prize from **Jawaharlal Nehru Memorial Fund** for securing first Rank in MSc (Agricultural Entomology).
- Best oral presentation award for students MSc Research topic.( Farzana M Sha Thania Sara Varghese Anitha N Nisha MS and Sabulal Baby. 2023. Insecticide Properties of essential oil from tea tree *Melaleuca bracteata* F Muell against pulse beetle *Callosobruchus chinensis* (Linn). International Conference on Recent Advances in Biological Sciences 2023. Jan 17-19,2023

#### **Positions Handled**

Post held	Period From	To	Govt. /Pvt	Temporary / Regular	Grade Pay	Nature of duty
<b>Vocational Teacher in Agriculture</b>	11-7-2007	4-9-2011	Kerala Govt:	Regular		Teaching
<b>Scientist (Entomology)</b>	15-9-2011	23-3-2016	Indian Council of Agricultural Research Central Govt:	Regular	15600-39100/ GP 6000/-	Research
<b>Scientist C Garden Management Division</b>	28-3-2016	11-2-209	KSCSTE- JNTBGRI, Palode Govt of Kerala	Regular	15600-39100/- AGP 6600/-	Research
<b>Assistant Professor (selection grade)</b>	22-5-2024	Present	Kerala Agricultural University	Regular	15600-39100 .- AGP 8000/-	Teaching Research Extension

#### **Journal Matrices**

	Citation	H index	i10 index
Google Scholar	620	12	12
Scopus Index	221	6	
Web of Science	162	4	

## Publications

Sl No	Title of the Paper/Publication	Type of Publication, NAAS Rating	Journal IF/NAAS rating
1	Anil John Johnson, Vinayak Venukumar, <b>Thania Sara Varghese</b> , Gayathri Viswanathan, Parvathy Sasidharan Leeladevi, Rajani Kurup Sukumaryamma Remadevi, Sabulal Baby.2022. Insecticidal properties of <i>Clausena austroindica</i> leaf essential oil and its major constituent, trans-anethole, against <i>Sitophilus oryzae</i> and <i>Tribolium castaneum</i> , Industrial Crops and Products, <a href="https://doi.org/10.1016/j.indcrop.2022.114854">https://doi.org/10.1016/j.indcrop.2022.114854</a> (Corresponding Author)	Research article	<b>NAAS 11.9</b>
2	<b>T. S. Varghese</b> , T. B. Mathew, T. George, S. N. Beevi, G. Xavier 2015. Persistence and Dissipation of Neonicotinoid Insecticides on Chilli Fruits. <i>Quality and safety assurance of foods and crops</i> 7(4): 487-491. , DOI 10.3920/QAS2013.0265 (First and corresponding author).	Research article	<b>NAAS: 10</b>
3	C. C. Lathika, G. B. Sujatha, G. Thomas, A. J. Johnson, G. Viswanathan , <b>T. S. Varghese</b> , S. Mohamed , L. A. Shereefa & S. Baby .2025. Bait, not reward: CO <sub>2</sub> -enriched Nepenthes pitchers secrete toxic nectar . Plant Biology. <a href="http://doi:10.1111/plb.70033">http://doi:10.1111/plb.70033</a> .	Research article	<b>NAAS 10.20</b>
4	Vipin Mohan Dan, <b>Thania Sara Varghese</b> , Gayathri Viswanathan and Sabulal Baby (2020) Ellipticine, its Derivatives: Re-evaluation of Clinical Suitability with the Aid of Drug Delivery Systems. Current cancer Drug Targets. Current cancer drug targets 20 (1), 33-46. <a href="https://doi.org/10.2174/1568009619666190927150131">https://doi.org/10.2174/1568009619666190927150131</a> (Second Author)	Review Paper	<b>NAAS- 9.00</b>
5	Akhil Sree Kumar, Rajani Kurup Sukumaryamma Remadevi, Anil John Johnson, Vinayak Venukumar, Farzana M Sha, <b>Thania Sara Varghese</b> & Sabulal Baby. 2023. Elettaria cardamomum leaves, an underutilized resource: chemical profile of its essential oil and insecticidal activity. Journal of essential oil research. <a href="https://doi.org/10.1080/10412905.2023.2197437">https://doi.org/10.1080/10412905.2023.2197437</a> (Corresponding Author)	Research article	<b>NAAS - 9.00</b>
6	Vandana Tripathy, B.B. Basak, <b>Thania Sara Varghese</b> , Ajoy Saha.2015. Residues and contaminants in medicinal herbs – A review. <i>Phytochemistry Letters.</i> 14. 67-78. <a href="https://doi.org/10.1016/j.phytol.2015.09.003">https://doi.org/10.1016/j.phytol.2015.09.003</a>	Review Article	<b>NAAS 7.7</b>
7	Akheela, P, <b>S V Thania</b> , G Anjitha, T Santhoshkumar, and A Sheena. (2025) 2025. “Insect Diversity on Rambutan ( <i>Nephelium Lappaceum L.</i> ) – A Tropical Fruit Tree of East Asia”. <i>Plant Science Today</i> 12 (sp1). <a href="https://doi.org/10.14719/pst.7509..">https://doi.org/10.14719/pst.7509..</a> (Corresponding author)	Research article	<b>NAAS 6.70</b>
8	<b>Thania Sara Varghese</b> , Vandana Tripathy and Jitendra Kumar (2018) Dissipation of Imidacloprid on White Psyllium ( <i>Plantago ovata</i> ) Under Semi-Arid Conditions. <i>Proceedings of the national academy of Indian Sciences B. Biological Sciences.</i> <a href="https://doi.org/10.1007/s40011-016-0786-z">https://doi.org/10.1007/s40011-016-0786-z</a>	Research Article	<b>Impact factor 0.96(2020 )</b>

9	Anjana S A, Thania Sara Varghese, Santhoshkumar T. 2025. Invasion of Thrips parvispinus in Kerala. Journal of 63(1): 68-71	Research Article	NAAS <b>5.24</b>
10	K Manoj, <b>T S Varghese</b> , N Anitha, M S Nisha and V Gayathri. 2024. Toxicity bioassays of essential oils against hadda beetle <i>Henosepilachna vigintioctopunctata</i> (f). Indian Journal of Entomology. DoI. No.: 10.55446/IJE.2024.1339. <b>(Corresponding Author)</b>	Research Article	NAAS - <b>5.9</b>
11	<b>Thania Sara Varghese</b> , Thomas Biju Mathew, Thomas George, S. Naseema Beevi and George Xavier.2011. Dissipation study of dimethoate, ethion and oxydemeton methyl in chilli. Pesticide Research Journal. 23(1): 68-73.	Research Article	NAAS- <b>5.4</b>
12	<b>Thania Sara Varghese</b> , Thomas Biju Mathew, Thomas George, S. Naseema Beevi and George Xavier.2011. Dissipation of propargite and	Research Article	NAAS - <b>5.4</b>

	spiromesifen in/on chilli fruits. Pesticide Research Journal. 23(2): 135-139.		
13	P Neethu, <b>Thania Sara Varghese</b> , N Anitha, Thomas Georgel, T Santhosh kumar. 2023. Studies on Resistance Development and Detoxification Enzyme of Rice Weevil, <i>Sitophilus oryzae</i> to Insecticides. Pesticide Research Journal. 35(2): 207-213. <b>(Corresponding Author)</b>	Research Article	NAAS - <b>5.4</b>
14	Athira Anil, Nisha M.S. and <b>Thania Sara Varghese</b> .2023. Bio efficacy of <i>Andrographis paniculata</i> (Burm. F.) Nees against <i>Meloidogyne incognita</i> in Okra, <i>Abelmoschus esculentus</i> (L) Moench. Indian Journal of Nematology.53(2)171-179.	Research Article	NAAS - <b>5.2</b>
15	P Akheela T Santhosh Kumar and <b>Thania Sara Varghese</b> 2024.First report of Bactrocera dorsalis (Hendel). (Diptera, Tephritidae) on the white - fleshed dragon fruit <i>Selenicereus undatus</i> (Haworth) D.R. Hunt (Cactaceae) in India. Entomon.49(2): 283-286. <b>(Corresponding Author)</b>	Research Article	NAAS- <b>5.24</b>
16	<b>Thania Sara Varghese</b> and Thomas Biju Mathew.2013. Bioefficacy and safety evaluation of newer insecticides and acaricides against chilli thrips and mites. <i>Journal of tropical Agriculture</i> . 51(1-2):111-115.	Research Article	
17	R.S Giraddi and <b>T.S Varghese</b> . 2007. Effect of different levels of Neem cake, Vermicompost and green manure on sucking pests of chilli. <i>Pest management in Horticultural Ecosystem</i> . 13(2): 108-114.	Research Article	NAAS <b>5.14</b>
18	<b>Thania Sara Varghese</b> and Thomas Biju Mathew, 2012. Evaluation of newer insecticides against chilli aphids and their effect on natural enemies. <i>Pest Management in Horticultural Ecosystem</i> . 18(1)114-117	Research article	NAAS <b>5-14</b>
19	<b>Thania Sara Varghese</b> and R.S Girraddi. 2005. Integration of Neem Cake in the Plant Protection Schedule for Thrips and Mite Management in Chilli (cv. Byadagi). <i>Karnataka Journal of agricultural Sciences</i> .18 (1): 154-156.	Research Article	
20	<b>Thania Sara Varghese</b> and Thomas Biju Mathew, 2012. Effect of new generation insecticides on major pests of chilli. <i>Insect Environment</i> . 17(4):164-165.	Research Note	NAAS - <b>3.52</b>
21	<b>Thania Sara Varghese</b> , T.M. Bharpoda, Vipin Chaudhary and P.K. Borad. 2013. Record of a parasitoid <i>Homalotylus hemipterinus</i> (De Stefani) on aphid predator <i>Cheilomenes sexmaculatus</i> (Fabricius). <i>Insect Environment</i> 18 (3, 4): 53-54.	Research Note	NAAS - <b>3.52</b>

22	Thania Sara Varghese (2016) Estimation of damage levels of leaf defoliator <i>catopsilia pyranthe</i> , in Indian Senna, <i>Cassia angustifolia</i> vahl. <i>Bioscan</i> . 11(1) 377-379.	Research article	
23	Mathew, T.B., Varghese, T.S., Vijayasree, V., Pallavi Nair, K., Nithya, P.R., Seena, S.M. (2024). Pesticide Residues in Indian Spices. In: Ravindran, P.N., Sivaraman, K., Devasahayam, S., Babu, K.N. (eds) Handbook of Spices in India: 75 Years of Research and Development. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-19-3728-6_17">https://doi.org/10.1007/978-981-19-3728-6_17</a>	Book chapter	
24	P Manivel, RP Meena M Suganthy, T Janakiraman, Vipin Chaudhary. 2022. Pest and Diseases of Medicinal Plants. Westville Publishing House [Chapter No: 2, 7,14,15,16,19].	Book Chapter (6 No)	
25	Anjitha George, Thania Sara Varghese, Ramya P Udaya Bhaskar K , Shanthalraja CS, Anandan A Sanjay Kumar( 2025) Handbook of Seed Insect Pests: Requisites for Detection Identification and Management, ICAR-national Institute of Seed Science and Technology, MAU , 275103, Uttarpradesh , India	Book	
22	GR Smitha, T S Varghese and P Manivel. 2014. Cultivation of Artemesia	Extension bulletin	
23	GR Smitha, T S Varghese and P Manivel. 2014. Cultivation of Vettiver	Extension Bulletin	
24	GR Smitha, T S Varghese and P Manivel. 2014. Cultivation of Palmarosa	Extension Bulletin	
25	GR Smitha, T S Varghese and P Manivel. 2014. Cultivation of Ocimum	Extension Bulletin	

### **PG and PhD Guidance**

Degree	Number of students	Completed	Ongoing
MSc	8	6	2
PhD	3		3

### Projects Handled

Sl No.	Title of the Project	Date of start and completion
1.	Evaluation of various management strategies for development of IPM module of <i>Catopsilia pyranthe</i> in Indian Senna <i>Cassia angustifolia</i> Vahl.	Aug 2012- March 2016
2.	Integrated Pest and Disease Management in medicinal and Aromatic Plants( <i>Plantago ovata</i> , Tulsi, <i>Leptadenia reticulata</i> )	April 2014- March 2016
3.	Organic cultivation of Medicinal and Aromatic Plants	April 2013- March 2016
4.	Management, Research and Development of Central Nursery of the Garden and Sales unit	March 2016 – March 2019.
5	Development of controlled release formulations of eco-friendly pesticides in stored pest management”	Dec 2019- Dec 2021
6	All India coordinated Research Project on Honey bee and Pollinators	Nov 2024 continuing

### Professional trainings attended

- Foundation course on Agricultural Research Service at **National Academy of Agricultural Research Management (Hyderabad)** A.P. Sept 15- Dec 13, 2011.
- Three months professional attachment training at Department of Agricultural Entomology, **Anand Agricultural University, Anand**. Jan 30-April 30 2012.
- International Training Programme on “Pest Risk Analysis” at **National institute of Plant health management, Hyderabad**, 6 to 10, July, 2015.
- ICAR sponsored summer school on “Advances in Medicinal and Aromatic Plants research at **ICAR- Directorate of medicinal and Aromatic Plants Research, Anand** 14, 2015- 3<sup>rd</sup> , 2015.
- **Indian Institute of Management, Kozhikode**, Management Development programme “Leadership Essentials and Strategic Insights” December 18-22,2017
- Pesticide Residue Analysis at **National Institute of Plant Health Management Hyderabad** 1 to 21<sup>st</sup> May 2019.
- Foundation Course on Research Education and Extension Management by **Kerala Agricultural University** Karshakabhanam Vellanikkara 2/03/2020 to 07/3/2020
- One-month online Induction Programme conducted by **UGC Human Resource Development Centre University of Kerala** Kariavattom 01-03-2021 to 30-03-2021.
- Refresher course in life Science by UGC HRDC University of Kerala, Kariavattom 4-10-2023 to 17-10-2023
- Trace level of Pesticide Residues in Food Commodities Project Coordinating Cell **AINP PR ICAR-IARI, New Delhi** 29-01-2024 to 2-2-2024