Curriculum Vitae

Name: Dr. S.G. Eswara Reddy Date of Birth: 05.07.1973 Designation: SeniorScientist (Entomology) Division:Entomology Laboratory, Agrotechnology Division Address: CSIR-Institute of Himalayan Bioresource Technology, Palampur-176 061, Kangra District, Himachal Pradesh E-mail Id: ereddy@ihbt.res.in, ereddy2001@yahoo.com Mobile No.: +91 94180 20738

Qualifications

Name of University	Degree Awarded	Year	Percent
University of Agricultural Sciences, GKVK, Bangalore, Karnataka	Ph.D. (Agricultural Entomology)	2005	93.33
University of Agricultural Sciences, GKVK, Bangalore, Karnataka	M.Sc. (Agricultural Entomology)	2000	84.33
University of Agricultural Sciences, GKVK, Bangalore, Karnataka	B.Sc. (Agriculture)	1997	78.40

Ph. D dissertation: Pest incidence and management strategy on capsicum and tomato grown under protected and open field cultivation.

M. Sc. dissertation: Evaluation of brinjal varieties, selected botanicals and synthetic insecticides against pest complex of brinjal.

R	lesear	ch E	xpe	erien	ce:	
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Organization/Institute	Designatio	Period	Research work		
	n				
Indian Institute of Horticultural	SRF	29.9. 2000 to	Pest management in		
Research (ICAR), Bangalore		31.12.2004	Horticultural crops		
Indian Institute of Horticultural	SRF	13.12.2005 to	Pest management in		
Research (ICAR), Bangalore		21.5.2006	Horticultural crops		
E I D Parry (I) Ltd, R & D Centre,	Entomologi	22.5.2006 to	Pest management in		
Bangalore	st	29.6.2007	Sugarcane		
Indofil Chemicals Company,	Scientist	1.7.2007 to	Evaluation of new		
Nirlon House, Dr. A B Road,		3.2.2009	insecticide molecules for		
Mumbai			pest management in crop		
			plants.		
Central MugaEri Research &	Scientist-B	0 5.02.2009	Muga silkworm and Host		
Training Institute, Central Silk		to 30.06.2011	Plant protection		
Board, Jorhat, Assam					
CSIR-Institute of Himalayan	Scientist	07.07.2011 to	Pest management and		
Bioresource Technology,	(E1)	07.07.2015	Development of		
Palampur (HP).			Biopesticides		
CSIR-Institute of Himalayan	Senior	07.07.2015 to	Development of		
Bioresource Technology,	Scientist	till date	Biopesticides		
Palampur (HP).					

Research experience:

- > Development of biopesticides for pest management.
- Screening of plant extracts/fractions/essential oils/pure compounds for their insecticidal properties.
- Isolation, characterization and evaluation of entomopathogenic fungi for the control of insect pests.
- Study of insect diversity in tea, ornamental and medicinal crops ecosystem.
- > Effect of elevated temperature and carbon dioxide on insect pests.

List of Publications (Last 5 years)

Papers published in SCI Journals (Impact factor Journals)

- 1. Rajeev Rattan, S.G. Eswara Reddy, ShudhKirti Dolma, Bharat Inder Fozder, VeenaGautam, Ritika Sharma and Upendra Sharma (2015). Triterpenoid saponins from *Clematis graveolens* and evaluation of their insecticidal activities. Natural Product Communications. 10(9):1525-1528 (I.F.-0.95).
- 2. Awasthi P, Ram R, **Eswara Reddy SG**, GireeshNadda, Zaidi AA and Hallan V (2015) Himalayan wild cherry (*Prunus cerasoides*) as a new natural host of Cherry necrotic rusty mottle virus (CNRMV) and a possible role of insect vectors in their transmission. Annals of Applied Biology, 166:402-409 (I.F.-2.19).
- 3. Vishal Kumar, S.G. Eswara Reddy*, Urvasi Chauhan, Neeraj Kumar and Bikram Singh (2016). Chemical composition and insecticidal activity of *Zanthoxylum armatum* against diamond back moth, *Plutella xylostella*. Natural Product Research, 30(6):689-692 (I.F.-1.80).
- 4. Singh AK, Dwivedi V, Rai A, Pal S, **Eswara Reddy SG**, Rao DKV, Shasany AK and Dinesh AN (2015). Virus-induced gene silencing of *Withaniasomniferas*qualene synthase negatively regulates sterol and defence-related genes resulting in reduced withanolides and biotic stress tolerance. Plant Biotechnology Journal, 13:1287-99 (I.F.-7.80).
- 5. **S.G. Eswara Reddy***, ShudhKirti Dolma, RajkeshKoundal and Bikram Singh (2016). Chemical composition and insecticidal activity of essential oils against diamond back moth, *Plutella xylostella*. Natural Product Research, 30(16):1834-1838 (I.F.-1.928).
- 6. Vishal Kumar, **S.G. Eswara Reddy***, Anuja Bhardwaj, Shudh Kirti Dolma and Neeraj Kumar (2016). Larvicidal activity and structure activity relationship of cinnamoyl amides from *Zanthoxylum armatum* and their synthetic analogues against diamondback moth, *Plutella xylostella*. EXCLI Journal, 15:229-237 (I.F.-2.424).
- Vishal Kumar, S.G. Eswara Reddy*, Urvasi Chauhan, Neeraj Kumar and Bikram Singh (2016). Chemical composition and insecticidal activity of *Zanthoxylum armatum* against diamond back moth, *Plutellaxylostella*. Natural Product Research, 30(6):689-692 (I.F.-1.928).
- 8. **S.G. Eswara Reddy*** and ShudhKirti Dolma (2017). Acaricidal activities of essential oils against two spotted spider mite, *Tetranychus urticae* Koch. Toxin Reviews, DOI: 10.1080/15569543.2017.1320805 (I.F.-1.887).
- ShudhKirti Dolma, Eshita Sharma, Ashu Gulati and S.G. Eswara Reddy* (2017). Insecticidal activities of tea saponin against diamondback moth, *Plutella xylostella* and aphid, *Aphis craccivora*. Toxin Reviews (Formerly Journal of Toxicology). DOI: 10.1080/15569543.2017.1318405 (I.F.-1.887).
- S.G. Eswara Reddy*, ShudhKirti Dolma, Praveen Kumar Verma and Bikram Singh (2017). Insecticidal activities of *Parthenium hysterophorus* L. extract and parthenin against diamondback moth, *Plutella xylostella* (L.) and aphid, *Aphis craccivora* Koch. Toxin Reviews, DOI: 10.1080/15569543.2017.1339281 (IF-1.887).

- 11. G.D. Kiran Babu, Shudh Kirti Dolma, Mohit Sharma and S. G. Eswara Reddy* (2018).Chemical composition of essential oil and oleoresins of *Zingiber officinale* and toxicity of extracts/essential oil against diamondback moth (*Plutella xylostella*). Toxin Reviews (IF-1.887).DOI:10.1080/15569543.2018.1491056.
- 12. **S.G.Eswara Reddy*** and ShaliniSahotra (2018). Multiplication of entomopathogenic fungus (*Lecanicilliumlecanii*) on apple pomace and its toxicity against aphid (*Aphis craccivora*). Toxin Reviews DOI: 10.1080/15569543.2018.1504222 (I.F.-1.887)
- Rohit Rana, ShudhKirti Dolma, Sushil K. Maurya* and S.G. Eswara Reddy* (2018). Insecticidal activity and structure–activity relationship of sugar embedded macrocycles for the control of aphid (*Aphis craccivora* Koch). Toxin Reviews (Formerly Journal of Toxicology). DOI:10.1080/15569543.2018.1498897 (I.F.-1.887).
- Rajkesh Koundal, ShudhKirti Dolma, Gopichand, Vijai K. Agnihotri and S.G. Eswara Reddy* (2018). Chemical composition and insecticidal properties of essential oils against diamondback moth, *Plutellaxylostella* (L.). Toxin Reviews (Formerly Journal of Toxicology). DOI:10.1080/15569543.208.1536668 (I.F.-1.887).
- 15. Adebisi O, Dolma SK, Verma PK, Singh B and **Reddy SGE*** (2019). Volatile, nonvolatile composition and insecticidal activity of *Eupatorium adenophorumSpreng* against diamondback moth, *Plutellaxylostella*(L.)andaphid, *Aphis craccivora*Koch. Toxin Reviews (Formerly Journal of Toxicology). 38 (2): 143-150 (I.F.-1.887).
- 16. S.G. Eswara Reddy* and AlkaKumari (2019). Seasonal incidence of black scale, *Saissetiaoleae* (Olivier) on the fern, *Thelypteristylodes* (Kunze) from western Himalaya. Indian Journal of Experimental Biology, 57:59-62 (I.F.- 1.47).

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Non-SCI Journals (peer-reviewed)

- Neog K, Unni BG, Dey S, Renthlei C Z, Reddy SGE*, Dutta P, Sonowal P and Rajan R K (2014). Studies on the endocrine regulation of reproduction and ultra-structure of brain and reproductive organs of muga silkworm *Antheraea assamensis*, Helfer (Lepidoptera: Saturniidae). World Journal of Pharmacy and Pharmaceutical Sciences, 3(2):1407-1432 (IF-0.63).
- 2. **Reddy SGE***, Chauhan U, Kumari S, Nadda G and Singh M K (2014).Comparative bio-efficacy of acaricides against two spotted spider mite, *Tetranychusurticae* (Koch) on chrysanthemum in poly house. International Journal for Research in Chemistry and Environment.4 (4):15-19.
- 3. **S.G. Eswara Reddy***, Vishal Kumar, Anuja Bhardwaj, Shudh Kirti Dolma andNeeraj Kumar(2015). Insecticidal activity and structure activity relationship of natural cinnamomyl amides against aphid, *Aphis craccivorra*. International Journal of Tropical Agriculture, 33(2):1668-1674.
- 4. Kumar A, Bhardwaj A, Gopi Chand, Agnnihotri VK and **EswaraReddy SG*** (2015). Insecticidal activity of plant extracts of *Costus speciosus* Koen against diamondback moth, *Plutellaxylostella* (L.).Current Biotica, 10(2):144-148.
- 5. S.G. Eswara Reddy* andAlkaKumari (2016). Seasonal incidence of aphid, *Amphorophora ampullata*Bukton (Homoptera: Aphididae) on fern, *Hypolepis polypodioides*(Blume) Hook (Hypolepidaceae) from Western Himalaya. Archives of Phytopathology and Plant Protection, 49 (13-14): 335-342.

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Book chapters

1. S.G. Eswara Reddy*, ShudhKirti Dolma and Anuja Bhardwaj (2016). Plants of Himalayan region as potential source of bio-pesticides for Lepidopteron insect pests. pp. 63-83. Herbal Insecticides, Repellents and Biomedicines: Effectiveness and

Commercialization. ISBN 978-81-322-2702-1; ISBN 978-81-322-2704-5 (eBook); Vijay Veer and R. Gopalakrishnan (eds.), Springer India.

Patents (Filed in India)

- S.G. Eswara Reddy*and ShaliniSahrotra (2016). A novel medium composition for culturing the entomopathogenic fungus *Lecanicilliumlecanii* (Reference number 0285NF2015 dated 11/1/2016).
- ✤ S.G. Eswara Reddy*, SK Dolma and Sushil K Maurya (2019). Insecticidal activities of *Sapiumsebiferum* for the control of insect pests (Submitted to IHBT Patent Unit).

S1.	Title of the project	Project	Responsibil	Period		Funding
No.		out lay	ity	From	То	agency
		(Lacs)	(PI/Co-PI)			
1	Bio-efficacy testing of botanical and	169.98	PI	Aug	March	CSIR
	microbial formulations for the			2018	2020	
	control of pests and diseases (MLP-					
	0131)					
2	Development of customized flow	34.90	PI	Nov	March	CSIR
	hive for quality honey extraction			2018	2020	
	(MLP-0141)					
3	CSIR Aroma Mission (HCP-007)		Co-PI	July	March	CSIR
				2017	2020	
4	Agro-technologies for promotion of		Co-PI			CSIR
	potential medicinal, aromatic and					
	commercially important crops for					
	societal and environment benefit					
	(MLP-0202)					

List of on-going projects

List of external projects completed

S1.	Title of the project	Project	Responsibil	Period		Funding
No.		out lay	ity (PI/Co-	From	То	agency
		(Lacs)	PI)			
1	Development of biopesticide	27.17	PI	18.4.	17.10.20	DBT,
	formulation by utilization of apple			2013	15	New
	pomace as substrate for mass					Delhi
	production of entomopathogenic					
	fungus, Lecanicilliumlecanii for the					
	management of aphids and whiteflies					
2	Introduction, adaptation and	34.48	Co-PI	8.7.	7.7.	DST,
	value addition of important			2014	2017	New
	medicinal and aromatic plants in					Delhi
	trans Himalayan region					
3	Crop weather relationship studies in	30.73	Co-PI	24.11.	15.10.20	DST,
	damask rose (Rosa damascena Mill)			2014	17	New
	under western Himalayas					Delhi

Sl.	Title of Project	Project	Participating	Your Role
No		Category	Agencies	as defined
1	Bio-efficacy of new/safer insecticides and bio-pesticides (entomopathogenic fungi) against major insect and mite pests of IHBT mandate crops and its residual analysis	- <u> </u>	IHBT	PI
2	Introduction, domestication, improvement, and cultivation of economically important plants (AGTEC)	In-house (BSC-0110) (12 FYP- Network)	CSIR-IHBT, CIMAP, IIIM, NBRI & NEIST	Co -PI
3	Plant diversity: Studying adaptation biology and understanding / exploiting medicinally important plants for useful bio actives (SIMPLE)	In-house BSC- 109- (12 FYP- Network)	CSIR- IHBT,CIMAP, CSMCRI,IIIM, NBRI,NCL, NEIST	Co –PI
4	Processes and products from Himalayan region and their toxicological evaluation (PROMOTE)	In-house IHBT(BSC- 0213)	IHBT	Co –PI
5	Centre for High Altitude Biology (CeHAB)	In-house IHBT(BSC- 0209)	IHBT	Co –PI

(Dr. SGE Reddy)