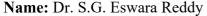
Curriculum Vitae



Designation: Principal Scientist (Entomology)

Institute: CSIR-Central Institute of Medicinal and Aromatic Plants (CSIR-CIMAP),

Research Centre, Allalasandra, GKVK Post, Bengaluru-560065

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https://scholar.google.com/citations?user=UN33VmAAAAAJ&hl=en

https://www.researchgate.net/profile/S-G-E

Research areas

- Screening of plant extracts/fractions/essential oils/compounds for their toxicity against insect and stored grain pests for the identification of lead (s) for botanical formulations.
- Collection, isolation, characterization and evaluation of native strains of entomopathogenic fungi (EPF) against insect pests.
- Development of formulations (botanical and fungal) for the identified lead (s) against insect pests.
- Integration of apiculture in aromatic and horticultural crops for the enhancement of livelihood of farmers.
- Chemical ecology of insects in medicinal and aromatic plants (MAPs).

Educational 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

Employment record

Designation	Pay Scale	Nature of work	Organization	Place of posting	Period
Entomologist	Rs. 17000		E I D Parry (I) Ltd, R & D Centre, Bangalore	Bangalore	22.5.2006 to 29.6.2007
Entomologist	Rs. 24450	Screening of new molecules against target pests	Indofil Chemicals Company, Mumbai	Bangalore	1.7.2007 to 3.2.2009
Scientist-B	PB 3 + GP 5400	Muga silkworm and Host Plant protection	CMER & TI, Central Silk Board, Jorhat, Assam	Jorhat	5.02.2009 to 30.06.2011
Scientist	PB 3 + GP 6600	Research and Development	CSIR-IHBT, Palampur (HP)	Palampur	07.07.2011 to 06.07.2015
Senior Scientist	PB 3 + GP 7600	Research and Development	CSIR-IHBT, Palampur	Palampur	07.07.2015 to 06.07.2019
Principal Scientist	Level 13	Research and Development	CSIR-IHBT, Palampur	Palampur	07.07.2019 to 11.06.2023
Principal Scientist	Level 13	Research and Development	CSIR-CIMAP, Lucknow (UP)	Bengaluru	12.06.2023 to till date

Publications

Total Impact Factor: 125.60 Total Citations: 786 h-index: 17 i10 index: 23

Research articles: SCI Journals

Authors	Year	Title of the research article	Journal Name
Sharma M, Arokiyaraj C, Rana S, Sharma U and Reddy SGE*	2023	(D.Don) DC with insecticidal activities.	202, 117040 https://doi.org/10.1016/j.inder op.2023.117040 (IF: 5.90)
Singh, R., Bhardwaj V.K., Kumar, S., Reddy SGE* and Purohit R	2023	friendly antifeedants against <i>Plutella xylostella</i> : a pest management approach.	Molecular Systems Design and Engineering. https://doi.org/10.1039/D3ME 00036B (IF:3.60)
Kumari P, Rana S, Bhargava, B and Reddy SGE*	2023	1	Agronomy, 13, 298 DOI: 10.3390/ agronomy13020298 (I.F-3.949)
Gupta H, Deeksha, Urvashi and Reddy SGE *	2023	activities of essential oils for the control of pulse beetle, <i>Callosobruchus maculatus</i> (F.) and	Molecules, 28, 492. https://doi.org/ 10.3390/molecules2802049 2 (I.F-4.927)
Kumar S, Anmol, Sharma U and Reddy SGE*	2022	molecules of <i>Aconitum heterophyllum</i> Wall ex. Royle against aphid, <i>Aphis craccivora</i> Koch (Hemiptera: Aphididae).	Pest Management Science DOI;10.14002/ps.7324 (IF- 4.46)
Arokiyaraj C, Kangkanjyoti B and Reddy SGE *	2022		Frontiers in Plant Science (I.F-6.62) DOI: 10.3389/fpls.2022.1016737
Dolma SK and Reddy SGE*	2022	synergistic activities of extracts, fractions and	Molecules 27(19), 6239; DOI:10.3390/molecules27196 239 (I.F-4.927)
Jayaram CS, Chauhan N, Dolma SK and Reddy SGE*	2022	scanning electron microscopy and mechanism of	Toxin Reviews (Formerly Journal of Toxicology) (I.F-3.166). DOI: 10.1080/15569543.2021.1988980
Kumari S, Dolma SK, Anmol, Sharma U* and Reddy SGE *		pure molecules of Cissampelos pareira Linnaeus against aphid, Aphis craccivora Koch.	Molecules, 27 & 633 (I.F-4.927) DOI:10.3390/ molecules27030633
Jayaram CS, Chauhan N, Dolma SK and Reddy SGE*		of essential oils against the pulse beetle	Molecules, 27 & 568 (I.F-4.927) DOI:10.3390/ molecules27020568
Chauhan N, Kashyap U, Dolma SK and Reddy SGE*	2022	and detoxification enzyme inhibition activities of essential oil of <i>Artemisia maritima</i> against the	Molecules, 27 & 1547 (I.F-4.927) DOI:10.3390/molecules27051 547
Dolma SK, Singh PP and Reddy SGE*	2022	leaf/bark extracts, fractions, seed oil and isolated compounds from <i>Triadica sebifera</i> (L.) Small	Molecules, 27 & 1967 (I.F-4.927) DOI:10.3390/ molecules27061967

Dolma SK, Suresh PS, Singh PP, Sharma U and Reddy SGE*	2021	Wall. ex D. Don for the control of diamondback	Pest Management Science (IF-4.46) DOI:10.14002/ps.7324
		moth (<i>Plutella xylostella</i> L.) and aphid (<i>Aphis craccivora</i> Koch).	1
Dolma SK, Jayaram CS, Chauhan N and Reddy	2021	Deformation of appendages, antennal segments and sensilla of aphid (<i>Aphis craccivora</i>	Toxin Reviews (I.F-3.166) DOI:
SGE*		Koch) treated with <i>Tagetes minuta</i> oil: a	10.1080/15569543.2020.1828 471
Sharma S, Kaliya K, Chauhan N, Dolma SK, Reddy SGE* and Maurya SK*	2021	Synthesis and screening of kojic acid derivatives for their bio-efficacy against diamondback moth (<i>Plutella xylostella</i> L.).	Toxin Reviews (I.F-3.166) DOI: 10.1080/15569543.2021.1996 394
Reddy SGE* and Bhardwaj S	2020		Indian Journal of
Koundal R, Dolma SK, Gopichand, Agnihotri VK and Reddy SGE *	2020	Chemical composition and insecticidal properties of essential oils against diamondback moth (<i>Plutella xylostella</i> L.)	Toxin Reviews, 39:4, 371-381
Adebisi O, Dolma SK, Verma PK, Singh B and Reddy SGE*	2019	characterization of compounds and biological	Indian Journal of Experimental Biology, 57, 908-915 (I.F-0.944)
Adebisi O, Dolma SK, Verma PK, Singh B and Reddy SGE*	2019	Volatile non-volatile composition and insecticidal activity of <i>Eupatorium adenophorum</i> Spreng against diamondback moth <i>Plutella xylostella</i> L and aphid, <i>Aphis craccivora</i> Koch	Toxin Reviews, 38, 143-150 (I.F-3.166)
Walia S, Rana A, Singh A, Sharma M, Reddy SGE* and Kumar R*	2019	content, chemical composition and insecticidal	Journal of Essential Oil- Bearing Plants (I.F-1.971) DOI: 10.1080/0972060X.2019.1610077
Reddy SGE* and Kumari A	2019	Seasonal incidence of black scale, <i>Saissetia oleae</i> (Olivier) on the fern, <i>Thelypteris tylodes</i> (Kunze)	
Babu GDK, Dolma SK, Sharma M and Reddy SGE *	2018	Chemical composition of essential oil and	Toxin Reviews (I.F-3.166) DOI: 10.1080/15569543.2018.1491056
Reddy SGE* and Sahotra S	2018	Multiplication of entomopathogenic fungus (<i>Lecanicillium lecanii</i>) on apple pomace and its toxicity against aphid (<i>Aphis craccivora</i>)	Toxin Reviews 39:3, 252-257, (I.F-3.166) DOI: 10.1080/15569543.2018.1504222
Rana R, Dolma SK, Maurya SK and Reddy SGE *	2018	Insecticidal activity and structure–activity	Toxin Reviews (I.F-3.166) DOI: 10.1080/15569543.2018.1498897
Reddy SGE* and Dolma SK	2018		Toxin Reviews, 37, 62-66 (I.F-3.166)
Reddy SGE*, Dolma SK, Verma PK and Singh B	2017	Insecticidal activities of <i>Parthenium</i> hysterophorus L. extract and parthenin against diamondback moth, <i>Plutella xylostella</i> (L.) and	Toxin Reviews, 37,161-165 (I.F-3.166) https://doi.org/10.1080/15569 543.2017.1339281
Dolma SK, Sharma E, Gulati A and Reddy SGE *	2017	Insecticidal activities of tea saponin against diamondback moth, <i>Plutella xylostella</i> and aphid, <i>Aphis craccivora</i>	Toxin Reviews, 37, 52-55

Kumar V, Reddy SGE*,	2016	Chemical composition and larvicidal activity of	Natural Product Research, 30,
Chauhan U, Kumar N and		Zanthoxylum armatum against diamondback	689-692 (I.F-2.488)
Singh B		moth, <i>Plutella xylostella</i>	
Reddy SGE*, Dolma, SK,	2016	Chemical composition and insecticidal activities	Natural Product Research
Koundal R and Singh B		of essential oils against diamondback moth,	30(16):1834-8 (I.F-2.488)
		Plutella xylostella (L.) (Lepidoptera:	
		Yponomeutidae).	
Kumar V, Reddy SGE* ,	2016	Larvicidal activity and structure activity	EXCLI Journal, 15, 229-237
Bhardwaj A, Dolma SK		relationship of cinnamoyl amides from	(I.F-4.022)
and Kumar N		Zanthoxylum armatum and their synthetic	
		analogues against diamondback moth, Plutella	
		xylostella	
Singh AK, Dwivedi A, Rai			Plant Biotechnology Journal,
A, Pal S, Reddy SGE , Rao		somnifera squalene synthase negatively regulates	13,1287-1299 (I.F-13.26)
DKV Shasany AK and		sterol and defense-related genes resulting in	
Nagegowda DA		reduced withanolides and biotic stress tolerance	
Awasthi A, Ram R, Reddy	2015	Himalayan wild cherry (Prunus cerasoides) as a	Annals of Applied Biology,
SGE, Nadda G, Zaidi AA		new natural host of Cherry necrotic rusty mottle	166, 402-409 (I.F-2.766)
and Hallan V		virus (CNRMV) and a possible role of insect	
		vectors in their transmission.	
Rattan R, Reddy SGE ,	2015	1 1	Natural Product
Dolma SK, Fozder BI,		and evaluation of their insecticidal activities.	Communications, 10, 1525-
Gautam V, Sharma R and			1528 (I.F-1.496)
Sharma U			
Reddy SGE*, Kumari A	2013	First report of the aphid, <i>Amphorophora</i>	American Fern Journal, 3,
and Lal B		ampullata (Homoptera:Aphididae) on the fern,	185–187 (I.F-0.90)
		Hypolepis polypodioides (Hypolepidaceae) from	
		Western Himalayas (India)	

^{*}Corresponding author

Patents filed

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Patent Appln. No.	Title	Year	Highlights
0285NF2015	A novel medium composition for	11.01.2016	The media prepared from apple fruit
	culturing the entomopathogenic		waste showed promising growth of the
	fungus, Lecanicillium lecanii		fungi at different concentrations
202011053104	A process for commercial	4.12.2020	Process for production of honey powder
	production of honey powder using		using low temperature
	low temperature drying technique		
202011048468	A synergistic herbal formulation	21.10.2021	Sapium sebiferum oil and leaf extract at
	useful as an insecticide and a		1% alone and its combinations showed
	process for the preparation there-of		promising synergistic and promising
			efficacy against Aphis craccivora and
			Planococcus lilacinus

Research articles: Non-SCI Journals

Authors	Year	Title	Journal name
Kumar A, Bhardwaj A,	2016	Insecticidal activity of plant extracts of	Current Biotica, 10, 144-148
Gopichand, Agnihotri VK and		Costus speciosus Koen against	
Reddy SGE*		diamondback moth, Plutella xylostella (L.)	
Reddy SGE*, Kumar V,	2015	Insecticidal activity and structure activity	International Journal of
Bhardwaj A, Dolma SK and		relationship of natural cinnamomyl amides	Tropical Agriculture, 33,
Kumar N		against aphid, Aphis craccivorra	1668-1674
Reddy SGE*and Sharma R	2015	First report of scale insects as pests of	Current Biotica, 9, 289-292
		Kangra tea in Himachal Pradesh, India	

Reddy SGE*, Chauhan U, Kumari S, Nadda G and Singh MK	2014	against two spotted spider mite,	International Journal for Research in Chemistry and Environment, 4, 15-19
Neog K, Unni B G, Dey S, Renthlei C Z, Reddy SGE , Dutta P, Sonowal P and Rajan RK	2014	Studies on the endocrine regulation of	World Journal of Pharmacy and Pharmaceutical Sciences, 3, 1407-1432
Dutta P, Reddy SGE and Borthakur BK	2013	Effect of neem kernal aqueous extract	Munis Entomology and Zoology, 8, 213-218
Reddy SGE, Sharma D and Kumar NKK	2007		Pesticide Research Journal, 19, 239-243
Reddy SGE, Kumar NK and Kumar CTA	2007	Seasonal incidence of yellow mite, Polyphagotarsonemus latus on sweet pepper under protected cultivation	Journal of Acarology, 16, 65-67
Reddy SGE and Kumar NKK	2007	spider mite, <i>Tetranychus urticae</i> (Koch) on tomato grown under polyhouse	
Reddy SGE and Kumar NK	2006		Journal of Horticultural Sciences, 1, 120-123
Reddy SGE and Kumar NKK	2006		Pest Management in Horticultural Ecosystems, 12, 45-54
Reddy SGE and Kumar NKK	2005	*	Journal of Asian Horticulture, 2, 123-127
Reddy SGE and Srinivasa N	2005	Efficacy of insecticides against brinjal shoot and fruit borer, <i>Leucinodes orbonalis</i> (Guen.)	Pestology, 29(1), 31-33
Reddy SGE and Srinivasa N	2004		Pestology, 28(12), 50-52
Reddy SGE, Kumar NKK and Murthy PNK	2004		Pestology, 28(7), 50-52
Kumar NKK, K Murthy PNK and Reddy SG E	2001		Pest Management in Horticultural Ecosystems, 7, 117-123
JhansiRani B and Reddy SGE	2001	Efficacy of selected insecticides against thrips, <i>Scirtothrips dorsalis</i> Hood on rose	Pest Management in Horticultural Ecosystems, 7, 54-58

^{*}Corresponding author

Book Chapters

Dook Chapters				
Authors	Year	Title	Publisher	Editors and ISBN No.
Reddy SGE*, Dolma SK	2016	Plants of Himalayan region as	Springer India	(eBook); Vijay Veer and R.
and Bhardwaj A		potential source of biopesticides		Gopalakrishnan (eds.), pp
		for Lepidopteron insect pests. In:		63-83
		Herbal Insecticides, Repellents and		ISBN 978-81-322-2702-1;

		Biomedicines: Effectiveness and		ISBN 978-81-322-2704-5
		Commercialization		
Nadda G, Reddy SGE *	2013	Insect and mite pests of tea and	Scientific	Ahuja PS, Gulati A, Singh
and Shanker A		their management. In: Science of	Publishers	RD, Sud, RK and Boruah
		Tea Technology	(India),	RC (eds.), 317-333
			Jodhpur	ISBN: 978-81-7233-831-2
Reddy SGE	2012	Insect pests of muga sericulture	Oxford Book	Sharma, BM (Editor), 128-
		and their management in Assam.	Company,	152
		In: Current Topics in	Jaipur,	ISBN: 978-93-5030-104-3
		Environmental Science	Rajasthan.	

^{*}Corresponding author

Review article

Authors	Year	Title	Publisher	Editors and ISBN No.				
Dolma SK and Reddy	2020	Insecticidal activities of	Mahima Research	In: Agriculture Development and				
SGE*		plant extracts and	Foundation	Economic Transformation in				
		fractions for the control	and Social Welfare,	Global Scenario.				
		of aphids	Varanasi, India	Editor: Ratnesh Kumar Rao				
				ISBN: 978-81-943375-3-9311-314				

Projects Completed (External)

- Development of bio-pesticide formulation by utilization of apple pomace as substrate for mass production of native strains (s) of entomopathogenic fungus, *Lecanicillium lecanii* for the management of aphids and whiteflies (DBT, New Delhi).
- Introduction, adaptation and value addition of important medicinal and aromatic plants in trans Himalayan region (SERB, DST, New Delhi).
- Crop weather relationship studies in damask rose (*Rosa damascena* Mill) under western Himalayas (SERB, DST, New Delhi).
- Training on beekeeping (Department of Horticulture, Govt. of Himachal Pradesh).

Projects Completed (CSIR)

- Introduction, domestication, improvement, and cultivation of economically important plants (AGTEC).
- Plant Diversity: Studying adaptation biology and understanding / exploiting medicinally important plants for useful bio actives (SIMPLE).
- Processes and products from Himalayan region and their toxicological evaluation (PROMOTE)
- Centre for High Altitude Biology (Ce HAB).
- Development of customized flow hive for quality honey harvesting and extraction.
- CSIR Aroma Mission (HCP-007-Phase I and II).
- Development of botanical formulation using *Artemisia maritima* extract for the control of aphids in cabbage/cowpea (FTT-MLP-0169).

Projects ongoing (CSIR)

• CSIR Aroma Mission (HCP-007-Phase III).

The particulars furnished above are true to the best of my knowledge and belief.

Dr. S.G. Eswara Reddy