

THE ENTOMOLOGICAL SOCIETY OF INDIA

New Delhi, 110012

NOMINATION FORM FOR ESI YOUNG ENTOMOLOGIST AWARD 2021

1. Name in full (in block letters):	SALINI SANTHAMMA		
2. Date & Place (State, Country) of Birth: (Attach proof)	30/05/1981		
	Thalavoor, Kollam Dist., Kerala		
3. Nationality:	Indian		
4. Field of specialization:	Agricultural Entomology		
5. Present Position/Designation:	Scientist		
6. Address:	ICAR-National Bureau of Agricultural Insect Resources, P.B. No.2491, H. A. Farm Post,		
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(Give STD code for Telephone & Mobile No.)

7. Academic career and professional attainments

(a) Degree	University/Institution	Year	Distinction, if any
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B. Sc. Agri	Kerala Agricultural University, Thiruvananthapuram.	1999- 2003	84.00
M. Sc. Agril Entomology	University of Agricultural Sciences, GKVK, Bangalore.	2004- 2006	93.30
Ph. D in Agril Entomology	University of Agricultural Sciences, GKVK, Bangalore.	2012- 2015	94.40

(b) Position held	Institution	Period of appointment
Senior Research Fellow	UAS, Bangalore	January, 2007- September, 2007
Research Consultant	Monsanto Research Centre, Bangalore	September, 2007- April, 2009
Scientist	ICAR- National Academy of Agricultural Research Management, Hyderabad	April, 2009- August, 2009
Scientist	ICAR-National Research Centre for Grapes, Pune, Maharashtra.	August, 2009- December, 2011
Scientist	ICAR- National Bureau of Agricultural Insect Resources, Bangalore.	December, 2011- April, 2014
Scientist	ICAR- National Bureau of Agricultural Insect Resources, Bangalore.	April, 2014- Till date (due for Senior Scientist from April 2019 onwards)

8. Special attainments of the nominee (maximum 250 words)

- Pentatomidae: Eight new species were described; redescribed six genera and 13 species; 6 species were recorded for the first time from various countries (Cambodia, China, Laos, Indonesia, Myanmar, Thailand and Vietnam) and two genera and one species from India.
- Designated one Neotype and two Lectotypes; published seven new synonymies; three *insertae sedis*; tribal transfer of four genera of Pentatomidae.
- Accession numbers for 30 species of Pentatomidae (using CO I), which are new to science has been generated.
- A checklist for 164 species belonging to 86 genera of Pentatomidae of India and a checklist of genera of the tribe Caystrini along with list of species occurring in South East Asia were published
- Four genera *Agathocles* Stål, *Acrozangis* Breddin, *Brachycerocoris* Costa and *Halys* Fabricius, revised from India.
- A host plant list of 53 species of Pentatomidae was published
- An improvised technique for the better inflation of phallus in Pentatomidae is developed; identified *Eocanthecona concinna* (Walker) as a potential Biocontrol agent for the Lepidopteran pests of Tea Plantations.
- Published distribution map for the species of *Agathocles* Stål and *Halyomorpha picus* (Fabricius) from India.
- Obtained Jawaharlal Nehru Award for P. G. Outstanding Doctoral Thesis Research in Agricultural and Allied Sciences 2016 (for crop Protection) from Indian Council of Agricultural Research and Travel grant of Rs. 1,83,833/- from Science and Engineering Research Board for attending the VI Quadrennial Meeting of International Heteropterists' Society, Argentina.

9. List 20 most important research publications in chronological order. For each publication, give name(s) of the author(s), indicate the corresponding author by ‘*’ after his/her name, year of publication, full title of the paper, name of the journal, volume No. and page Nos. and NAAS rating during the 2021 for ESI Young Entomologist award

Sl. No.	Details of Publications in the format given above	NAAS Journal ID and (Score)	Number of Citations
1.	*Salini, S. , 2011. Polymorphism in Southern Green Stink Bug, <i>Nezara viridula</i> (L.) (Hemiptera: Pentatomidae). <i>Current biotica</i> , 4(4): 482-485.	C179 #	5
2.	*Salini, S and Yadav, D. S. 2011. Occurrence of <i>Stromatium barbatum</i> (Fabr.) (Coleoptera: Cerambycidae) on Grapevine in Maharashtra. <i>Pest Management in Horticultural Ecosystem</i> . 17(1): 48-50.	P040 5.05	11
3.	*Salini, S and Belavadi, V. V. 2015. External Scent Efferent System of Pentatomidae (Hemiptera: Pentatomoidea). <i>The Mysore Journal of Agricultural Sciences</i> , 49(2): 324-328	T047 4.64	1
4.	*Salini, S and Viraktamath, C. A. 2015. Genera of Pentatomidae (Hemiptera: Pentatomoidea) from south India—An illustrated key to genera and checklist of species. <i>Zootaxa</i> , 3924 (1): 1–76. (Monograph)	Z013 6.99	17
5.	*Salini, S. 2016. Redescription of predatory stink bug, <i>Amyotea malabarica</i> (Fabricius, 1775) (Hemiptera: Pentatomidae: Asopinae). <i>Journal of Biological Control</i> , 30(4): 240-247.	J106 4.99	6
6.	*Salini, S. 2016. Redescription of <i>Dardjilingia</i> Yang (Hemiptera: Pentatomidae) from India. <i>Zootaxa</i> , 4144(1) : 131-137.	Z013 6.99(JCR)	3
7.	K. J. *David, D. L. Hancock, Shakti Kumar Singh, S. Ramani, G. T. Behere & S. Salini . 2017. New species, new records and updated subgeneric key of <i>Bactrocera</i> Macquart (Diptera: Tephritidae: Dacinae: Dacini) from India. <i>Zootaxa</i> , 4272(3): 386-400.	Z013 6.99(JCR)	12
8.	*Salini, S. 2017. First Record of <i>Neojurtina typica</i> from India (Hemiptera: Heteroptera: Pentatomidae). <i>Journal of Threatened Taxa</i> , 9(4): 10133-10137.	J518 5.64	2
9.	*Salini, S. 2017. First record of <i>Brachycoris</i> Stål (Hemiptera: Heteroptera: Pentatomidae) in India, with description of a new species. <i>Zootaxa</i> , 4236(3): 563-572.	Z013 6.99(JCR)	1
10.	*Salini, S and Schmidt, C. 2018. Revision of genus <i>Acrozangis</i> Breddin (Hemiptera: Pentatomidae: Pentatominae) with description of a new species from India. <i>Zootaxa</i> , 4413 (3): 507–523.	Z013 6.99(JCR)	1
11.	Srikumar, K.K., *Salini, S. , Smitha, S., Kumar, B. S., Radhakrishnan, B. 2018. Taxonomy, bionomics and	J106 4.99	2

	predatory potential of <i>Eocanthecona concinna</i> (Walker) (Hemiptera: Pentatomidae: Asopinae). <i>Journal of Biological Control</i> , 32(2): 81-86.		
12.	*Salini, S. 2019. Revision of the genus <i>Halys</i> (Hemiptera: Pentatomidae) with description of a new species from India. <i>Zootaxa</i> , 4586 (2): 351–375.	Z013 6.99(JCR)	2
13.	*David, K. J., Handcock, D. L. Salini, S., Gracy R. G. and Sachin, K., 2020. Taxonomic notes on the genus <i>Campiglossa rondani</i> (Diptera: Tephritidae, Tephritinae: Tephritini) in India, with description of three new species. <i>ZooKeys</i> . 977: 75–100.	Z006 7.14	1
14.	*Salini, S., David, K. J. and Pratheepa, M. (2021). Does India have the invasive brown marmorated stink bug, <i>Halyomorpha halys</i> (Stål). Scientific Correspondence. <i>Current Science</i> , 120(2): 268–269.	C203 6.73	-
15.	*Salini, S., Rabbani, M.K. and Singh, S. (2021). Taxonomic notes on <i>Sarju</i> Ghauri, 1977 (Hemiptera: Heteroptera: Pentatomidae) with description of a new species from India. <i>Zootaxa</i> , 4951 (2): 283–303.	Z013 6.99(JCR)	-
16.	*Salini, S and Roca-Cusachs, M. (2021). Review of the Oriental species of the genus <i>Brachycerocoris</i> Costa, 1863 (Hemiptera: Pentatomoidea: Pentatomidae: Podopinae s.l.) with description of two new species. <i>Zootaxa</i> , 5040 (4): 507–527.	Z013 6.99(JCR)	-
17.	*Salini, S., Rabbani, M. K., David, K. J. and Sachin, K. 2021. Scutelleridae as potential pests of star gooseberry (<i>Phyllanthus acidus</i>) (L.) Skeels. <i>Insect Environment</i> , 24(2) : 220–228.	I128 #	-
18.	Kment, P., Salini, S. and Ahmed, Z. 2021. <i>Halyomorpha picus</i> (Hemiptera: Heteroptera: Pentatomidae) first confirmed record from Pakistan and two new junior synonyms. <i>Zootaxa</i> , 5060 (3): 429–438.	Z013 6.99(JCR)	
19.			
20.			

10. List of 5 most important Products/Technologies/Discoveries/Patents by the nominee

(Please see item 1 (b) in the Guidelines for Evaluation and list the products, technologies and software in the order scoring maximum to minimum score)

Sl. No	Details of Product/Technology/Discoveries/Software * (Also write in one bullet point its impact in terms of adoption, commercialization and revenue generated)	Patent No./Country of patent Release/ notification details Commercialization	List according to category (I,II) as given in 2 of the guidelines for evaluation	Whether Nominee is a Developer, Co-developer or Associate
1.	<i>Agathocles flavipes</i> sp. nov Salini and Kment, 2021 described from India. A new species collected on bamboo plants	Zootaxa, 4958(1): 510-559	I	Developer

2.	<i>Agathocles jodeliae</i> sp. nov. Salini and Kment, 2021 described from Malaysia.	Zootaxa, 4958(1): 510-559	I	Developer
3.	<i>Aeliomorpha viridiscens</i> Rider & Rolston and <i>Critheus lineatifrons</i> Stål are recorded for the first time from south India	Biodiversity and Evaluation: Perspectives & Paradigm shifts, 2015: 13-15	I	Developer
4.	<i>Eysarcoris aenescens</i> (Walker) and <i>Eysarcoris dubius</i> Dallas are recorded for the first time from south India	Biodiversity and Evaluation: Perspectives & Paradigm shifts, 2015: 13-15	I	Developer
5.	<i>Glaucias albomaculatus</i> (Distant) is recorded for the first time from south India	Biodiversity and Evaluation: Perspectives & Paradigm shifts, 2015: 13-15	I	Developer
6.	<i>Empysarus depressus</i> Martin, 1994, A Tessaratomid bug recorded for the first time from Pune as well as Bangalore	Insect Diversity and Taxonomy, T.C.N. Com. Vol, November 2017:191-200 ISBN: 978-81-932880-3-0	I	Co-Developer

* Marks shall be awarded only for the claims duly substantiated

11. Externally Funded Projects
Projects funded by ICAR, CSIR, DST, DBT, other government and private agencies. - DST-SERB Project entitled," Systematic studies on Pentatominae (Hemiptera: Heteroptera: Pentatomidae) from North East India" (CRG/2019/001619) as Principal Investigator since 14.01.2020 (1 year completed). - DST-SERB Project entitled,"Systematic studies on fruit flies of subfamily Tephritinae (Diptera: Tephritidae) from south India with special reference to Western Ghats (CRG/2018/003247) as Co- Principal Investigator since 30.03.2019 (2 years completed).

12. Involvement in Teaching/Extension Activities
A. Teaching <u>Teaching aids developed: Training manuals</u>

1. Sampathkumar M, U Amala, G. Mahendiran, **S. Salini**, B. Ramanujam and Ballal CR. 2019. Training manual on “Biological control and compatible pest management modules for management of major pests in NEH region with emphasis on FAW- Batch II (16-20 September 2019). ICAR NBAIR training manual No.1/2019. 112 p.
2. Adsule, P. G., Karibasappa, G. S., Sawant Indu S., Sawant, S. D., Somkuwar, R. G., Upadhyay, A. K., Banerjee, K., Ramteke, S. D., Sharma, J., Satisha, J., Sharma, A. K., Yadav, D. S. and **Salini, S.** 2011. Manual of Package of practices for production of exportable table grapes. https://www.nrcgrapes.nic.in/zipfiles/Modified_POP_Export_Grapes_Modified_on_17_Jun2011.pdf.
3. One DVD was published on Pest Management in grapes was prepared in collaboration with AGRO INDIA, Pune.

Students guided:

- As guide to M. Sc. (Biotechnology) student, Ms. R. Hari Priya, from Reva University, Bangalore for a period of 3.5 months (from 01. 01.2019 onwards) on "Taxonomic studies of Plataspidae (Hemiptera: Heteroptera: Pentatomoidea) from Karnataka" as a part of her Work Experience Project.

Extension

- Demonstration of use of Black Soldier flies for "Waste to Wealth Programme" arranged as part of Swatch Bharath Abhyian to nearly 42 farmers at Thalahalli village of Chikkaballapura Dist., Karnataka on 26.10.2021.
- Several lectures (approximately six) were delivered in various Charachsatra organized by MRDBS at Pune about Pest Management in Grapes and also several field visits to various grape farmers field to give crop pest advisory in various regions of Maharashtra such as Sangli, Solapur, Pune etc.

Extension teaching aid developed:

1. **Salini, S.**, David, K. J. and Rabbani, M. K. 2020. Beneficial fauna of stink bugs of India. ICAR-NBAIR Publication: 18/2020.
2. David, K. J., Veghese, A., **Salini, S.** and Bakthavatsalam, N. 2020. Identification of fruit fly pests of cucurbits in India and its management. ICAR-NBAIR Publication: 17/2020.
3. David, K. J., Veghese, A., **Salini, S.** and Bakthavatsalam, N. 2020. Identification of fruit fly pests of fruit crops in India and its management. ICAR-NBAIR Publication: 16/2020.

Exhibitions

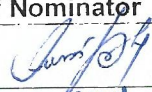
Participated, arranged and represented as resource person for the following events on behalf of ICAR-NBAIR for the transfer of technology (use of various biological control agents such as pests, predators and microbials for the management of various crop pests) to different stakeholders such as farmers, students or extension workers.

1. Indian Science Congress held on 06.01.2020 at UAS, GKVK, Bangalore.
2. Krishi mela at UAS, GKVK, Bangalore held on 26.10.2019
3. National Horticultural Fair at IIHR on 06.02.2020.
4. National Horticultural Fair at IIHR on 11.02.2021.

I certify that the information given in the form is correct.

Date: 29.10.2021


Signature of Nominee

Particulars of Nominator		Remarks about the suitability of the nominee
Signature of the Nominator: 		Dr. Sheloni has been mentoring student throughout her education. She has contributed significantly to our knowledge of Pentatomidae family. She has described 8 species, redescribed 6 genera & 13 species. She has collaborated with scientific taxonomists from several countries. She has brought out several nomenclature changes to make status of family Pentatomidae more clear. Hence I nominate her for this award.  29/10/2021 Head Division of Germplasm, Collection & Characterization
Name and Designation:	Dr. Sunil Joshi, Principal Scientist and Head, Division of Germplasm Collection & Characterization	
Address:	ICAR-National Bureau of Agricultural Insect Resources, P. B. No. 2491, H. A. Farm Post, Bellary Road, Hebbal, Bangalore-560024	
Date:	29.10.2021	

 **Dr. Sunil Joshi** 
Principal Scientist (Agril. Entomology)
Division of Germplasm, Collection & Characterization
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