

Time	September 27 - Thursday					
08:00-	Registration					
09:00		T 10 :				
09:00- 10:00		Inaugural Session				
10:00-		Refreshment Break				
10:30		- O Prosincio Stem				
10:30-		Opening lecture (Coronet Hall)				
11:00	· · · · · · · · · · · · · · · · · · ·	scripts are rejected for publication? An editorial p	erspectiv			
Time	Coronet Hall	Senate Hall	Time	Orchid Hall		
	Session 1: Biodiversity, Biosecurity and Conservation Strategies	Session 2: Biotechnological Approaches in Biocontrol	orydd	Session 8: Third International Workshop of the IOBC Global Working Group on Biological Control and Management of Parthenium Weed		
11:00- 11:30	Biodiversity bugs pests: An ecological perspective-Krishna Kumar N K	Small insecticidal molecules against crop pests- Raj Kamal Bhatnagar	11:00- 11:10	Welcome & Housekeeping - Lorraine Strathie		
11:30- 12:00	Biosystematics, biodiversity and biocontrol relationships-Ramamurthy VV	Role of transgenic <i>Bt</i> -crops in promoting biological control and integrated pest management- Manjunath T M	11:10- 11:20	Opening of Parthenium Weed Workshop - Rangaswamy Muniappan		
12:00- 12:15	Pest management services through conservation of biological control agents: review, case studies and field experiences-	Yeast volatile organic compounds inhibit ochratoxin - A production by Aspergillus carbonarius (Bainier)- Quirico Migheli	11:20- 11:50	Keynote address – Biological control of parthenium weed (<i>Parthenium hysterophorus</i> L.): Australian experience - Kunjithapatham Dhileepan		
12:15- 12:30	Abraham Verghese	Silencing of a <i>Meloidogyne incognita</i> mucin- like gene reduces <i>Pasteuria penetrans</i> endospore adhesion on the juvenile cuticle surface - Uma Rao	11:50- 12:05	Theme: Spread and impact of <i>Parthenium hysterophorus</i> (Chair: Lorraine Strathie) Nationwide survey of parthenium weed infestation in Bangladesh: risk and threat for food security. Ilias Hossain		



				10.05	
				12:05-	Current spread and integrated management to
				12:20	contain parthenium weed in India- Sushil
					Kumar
				12:20-	Parthenium Weed Workshop Group photo-
				12:30	All
12:30-			Lunch Break		
14:00			-010		
14:00-	Research to support New Zealand's plant		Trichoderma virens XYPPX repeat protein	14:00-	Will parthenium weed become more invasive
14:15	border biosecurity - Barbara Barratt		(XRP1) is involved in regulation of conidiation	14:15	in the future? - The effect of elevated CO ₂ on
			and mycoparasitism- Ravindra Bansal		seeds characteristics- Runping Mao
					Theme: Evaluation of biological control
			7 /	2	Chair: Sreerama Kumar Prakya
14:15-	Predatory and parasitic insects associated	•	Expression of a novel insecticidal protein from	14:15-	Host range evaluation of the leaf-feeding
14:30	with the dubas bug in date palm orchards in		a bryophyte for control of sap sucking pests of	14:30	beetle Zygogramma bicolorata and the stem-
	Oman and relationship with insecticide		cotton - Subhi Srivastava	9.1	boring weevil Listronotus setosipennis
	application - Ali AlWahaibi			1 <	demonstrates their suitability for biological
	TP				control of the invasive weed <i>Parthenium</i>
				5	hysterophorus in Ethiopia- Wondi Mersie
14:30-	Invasive alien plant species in Nepal -		Prospecting for novel Bacillus thuringiensis	14:30-	Incidence of Parthenium hysterophorus and its
14:45	Pramod Kumar Jha		holotype crystal toxin genes in India -	14:45	eco-friendly control by Zygogramma
11.15	Transca resident site		Singaravelu B	11.13	bicolorata in Chitrakoot, Madhya Pradesh,
			Singaraveia B	7	India-Ramesh Chandra
14:45-	Conservation strategies for management of	1	Characterization of an insecticidal binary-toxin	14:45-	Age, mating status and sex influence food
15:00	insect pests of tobacco- Sreedhar		'Photox' from Indian isolates of	15:00	consumption and utilisation efficiency of
13.00	Uppalapati		entomopathogenic <i>Photorhabdus</i> bacteria -	13.00	parthenium weed beetle, Zygogramma
	Орранаран		Vishal Somvanshi		bicolorata Pallister- Bhupendra Kumar
15:00-	Enhancing biological suppression through		Management of <i>Bt</i> resistant pink bollworm,	15:00-	Impact of <i>Zygogramma bicolorata</i> on growth
15:15	manipulation of ephemeral rice field habitat		•	15:15	
13.13	- Chitra Shanker		Pectinophora gossypiella in transgenic cotton	13.13	of Parthenium hysterophorus in Nepal-
	- Спита знапкег		by Cry1Ac-Vip3AcAa fusion protein: A		Seerjana Maharjan
			molecular modeling study- Sindhu Thangaraj		



15:15- 15:30	An Indian perspective of the neglected players for the control of nasty sucking pests - Ankita Gupta		Evaluating the bio-insecticidal potential of recombinant spider venom peptide, μ-digue toxin-Dc1a, against two major lepidopteran insect pests of cotton - Balwant Singh	15:15- 15:30	Discussion- All
15:30-			Refreshment Break		
16:00	A		Manufacturia I and and pulsar damentaria di an		
16:00- 16:15	A systematic account of weed infesting		Morphological and molecular characterization of <i>Microplitis maculipennis</i> Szépligeti		Theme: Evaluation of biological control (continued) - Chair: Wondi Mersie
10:13	fruit flies (Diptera: Tephritidae) in India - David K J	E	of <i>Microplitis maculipennis</i> Szépligeti (Hymenoptera: Braconidae) from India with notes on its generic placement - Venkatesan T	16:00- 16:15	Spread of the leaf-feeding beetle Zygogramma bicolorata for the biological control of the invasive weed Parthenium hysterophorus in Ethiopia- Million Abebe
16:15-	Diversity of entomopathogenic nematodes		Mining Pseudomonas koreensis P2 genome for	16:15-	Predicting establishment of the leaf-feeding
16:30	from Uttar Pradesh and its virulence against		key antimicrobial genes involved in biological	16:30	beetle Zygogramma bicolorata (Coleoptera:
	major insect pests of vegetables Manjunatha G T		control of plant diseases - Alok Kumar Srivastava	NO AS	Chrysomelidae) for the management of Parthenium hysterophorus (Asteraceae: Heliantheae) in India: A machine learning approach- Yoghita Gharde
16:30-	Characterization of bacterial diversity		Double-stranded RNA-mediated silencing of	16:30-	Establishment and early impact of introduced
16:45	associated with brown planthopper, Nilaparvata lugens (Stål) and their role in insecticide resistance-Guru Pirasanna Pandi		Chitin Synthase (ChS) gene affects larval development in <i>Leucinodes orbonalis</i> - Shipra Saxena	16:45	natural enemies to control <i>Parthenium</i> hysterophorus in South Africa- Lorraine Strathie
16:45-	Stethorini (Coleoptera: Coccinellidae)		de novo genome sequencing and hybrid	16:45-	Current status of biological control of
17:00	associated with phytophagous mites of south India - Vidya C V		assembly approaches for complex insect genomes - Dushyant Singh Baghel	17:00	Parthenium hysterophorus using mycoherbicide- Ajay Kumar Singh
17:00-	Record of prostigmatid predatory mites			17:00-	Phytotoxic effect of Abutilon indicum,
17:15	from Himachal Pradesh - Jayaram C S			17:15	Tephrosia purpurea, Prosopis juliflora and
					Cassia occidentalis - Ethanolic extracts on germination and seedling growth of the



				globally invasive weed <i>Parthenium</i> hysterophorus - Aishwarya Andhare
17:15- 17:30	Validation of IPM in cotton in whitefly hot spot in North India - Anoop Kumar		17:15- 17:30	Theme: New initiatives- Chair: Wondi Mersie
		.018		Distribution and current efforts in biological control of <i>Parthenium hysterophorus</i> in Uganda-Richard Molo
17:30- 20:00	ICBC 201	8 Poster session	17:30- 18:15	Discussion - All
20:00		Gala Dinner	AND APPRICA	



Time	September 28 - Friday				
	Coronet Hall	Senate Hall	Time	Orchid Hall	
	Session 3: Production and Utilization of Microbials for Insect Pest and Disease Management	Session 4: Biological control Compatible Approaches		Session 8: Third International Workshop of the IOBC Global Working Group on Biological Control and Management of Parthenium Weed	
				Theme: New initiatives (continued)- Chair: Million Abebe	
08:30- 08:45	Biological control in compliance with the Nagoya Protocol: access and benefit sharing -	Recent collaborative research progress in pheromone-based trapping systems for agri-	08:30- 08:45	Techniques to rear three insect agents for the biological control of <i>Parthenium hysterophorus</i> in South Africa - Lorraine Strathie	
08:45- 09:00	David Smith	horticultural pests management in India- Sithanantham S	08:45- 09:00	Importation and quarantining of the seed-feeding weevil <i>Smicronyx lutulentus</i> for prospective control of <i>Parthenium hysterophorus</i> in India - Sreerama Kumar Prakya	
09:00- 09:15	Trichoderma for plant disease management-A gift of God to mankind - Mukhopadhyay A N	Antifungal activity against Monosporascus cannonballus and plant growth- promoting potential of bacteria isolated from rhizosphere of melon in Oman - Dhuha Al Daghari		Initiation of a classical biological control programme against <i>Parthenium hysterophorus</i> in Pakistan- Philip Weyl	
09:15- 09:30		Effect of <i>Bacillus</i> spp. and plant extracts from <i>Impatiens balsamina</i> L. on anthracnose disease caused by <i>Colletotrichum</i> spp. on mango in Vietnam – Nguyen Van Hoa	09:15- 09:45	Discussion - All	



09:30- 09:45	Entomopathogenic fungal x bacterial interactions: potential implications for aphid biocontrol- Justin Hatting	Fruit fly management in Nepal - a case from plant clinics- Debraj Adhikari	00.45	December 1 de la companya de la comp
09:45- 10:00	A baseline study using Plantwise information to assess the contribution of extension services to the uptake of augmentative biological control in selected low to lower middle-income countries- Steven Edgington	Effect of insecticides on adult and preimaginal stages of <i>Trichogramma chilonis</i> Ishii (Hymenoptera: Trichogrammatidae) and its parasitisation potential - Kamaldeep Sangha	09-45- 10:30	Recommendations arising from Parthenium Weed Workshop - All
10:00- 10:15	Bio-protection of cucumber seedlings from <i>Pythium aphanidermatum</i> with native antagonistic rhizobacteria- Issa Al-Mahmooli	Bio-intensive pest management in rice – Gogreen initiative! - Gururaj Katti	Š.	
10:15- 10:30	Microbial control of filth flies using fungal, viral, and bacterial agents - Christopher Geden	Compatibility and efficacy of entomopathogenic nematode-insecticide combinations against <i>Holotrichia consanguinea</i> Blanch. (Coleoptera: Scarabaeidae) - Jagadeesh Patil	JAdV Q	
10:30- 10:45	Emerging opportunities in field of capacity building and development to promote use of microbial pesticide in Asia - Malvika Chaudhary	Biofumigation - An effective tool in enhancing yield of capsicum (Capsicum annum) by suppressing soil-borne pathogens and augmenting biopesticides like Trichoderma viride and Pseudomonas fluorescens under protected cultivation in India - Swapan Ghosh	10:30- 10:50	Future actions and directions of the IOBC Global Working Group on Parthenium Weed - All
10:45- 11:00	Characterization and evaluation of nucleopolyhedroviruses against lepidopteran pests of crops- Sivakumar G	Eco friendly pest and disease management practices in groundnut - Gayathri Subbiah	10:50- 11:00	Closing remarks & closure of Parthenium Weed Workshop- Lorraine Strathie
11:00- 11:30	F	Refreshment Break		



11:30- 11:45	Potential use of bacterial endophytes and carbendazim tolerant <i>Trichoderma</i> for the management of pomegranate wilt caused by <i>Ceratocystis fimbriata</i> - Sriram S		Compatibility of insecticides with entomopathogenic fungi, <i>Metarhizium</i> spp. and <i>Beauveria</i> spp. for bio-intensive management of pink mealybug, <i>Maconellicoccus hirsutus</i> (Green) in grapes, <i>Vitis vinifera</i> Linnaeus - Deependra S Yadav	11:30- 12:00	Session 9: Workshop of the IAPPS Working Group on Tuta absoluta - Biology, Ecology and Management Chair: Rangaswamy Muniappan Keynote address: Multi-pathway models to understand the spread and impact of Tuta absoluta - Abhijin Adiga
11:45- 12:00	Entomopathogenic nematodes: Isolation from sugarcane fields of subtropical India, bioefficacy studies against white grub and mass production by monoxenic liquid fermentation technique - Sankaranarayanan Chellappa		Exploitation of mutualistic fungal symbiont Fusarium ambrosium for the suppression of tea shot holeborer, Euwallacea fornicatus - Mahendran P	ADVIAG!	
	Session 5: Biological Control of Invasive Pests and Weeds	-	Session 4: Biological control Compatible Approaches	AD A	
12:00- 12:15		-	_	12:00- 12:15	Role of IPM Innovation Lab in Management of <i>Tuta absoluta</i> - Rangaswamy Muniappan
	Pests and Weeds Classical biological control of invasive weeds – a historical perspective, challenges	-	Approaches BIPM modules against shoot and fruit borer, Leucinodes orbonalis (Guenée) in eggplant,	12:00-	
12:15	Pests and Weeds Classical biological control of invasive weeds – a historical perspective, challenges	-	Approaches BIPM modules against shoot and fruit borer, Leucinodes orbonalis (Guenée) in eggplant, Solanum melongena L Rabinder Kaur Impact of transgenic Bt cotton (Cry1Ac and Cry2Ab) on the parasitoid, Aenasius arizonensis (Girault): a host mediated tri-	12:00- 12:15	of Tuta absoluta- Rangaswamy Muniappan



	Annapurna Landscape, Nepal - Anju Sharma Poudel	Kyin Kyin Win	Mohan M
14:15- 14:30	The spiralling whitefly, <i>Aleurodicus dispersus</i> Russell (Hemiptera: Aleyrodidae) in banana plantations in Costa Rica - Helga Blanco-Metzler	Efficacy of entomopathogens for the management of leafhoppers (<i>Idioscopus</i> spp.) and thrips (<i>Scirtothrips dorsalis</i> Hood) on mango - Poluru V Reddy	Thermal requirements of <i>Tuta absoluta</i> (Meyrick) and influence of temperature on its population growth on tomato – Sharma P L
14:30- 14:45	Effects of different temperatures on development and reproduction of <i>Aenasius arizonensis</i> (=bambawalei) (Hymenoptera: Encyrtidae) - Nooshin Zandi Sohani	Effect of herbicides on feeding, survival and development of <i>Haltica cyanea</i> , potential biocontrol agent of the dicot weed, <i>Ammana baccifera</i> , in rice ecosystem- Padmakumari AP	Controlled release matrix for delivery of South American tomato moth, <i>Tuta absoluta</i> (Meyrick) (Lepidoptera: Gelechiidae) pheromone - Subaharan K
14:45- 15:00	Identification and characterization of larval salivary gland polytene chromosomes of the peach fruit fly, <i>Bactrocera zonata</i> (Saunders) (Diptera: Tephritidae) - Farzana Yesmin	Investigation, electrophysiological and behavioural response to the GLV and sex pheromone components of Indian rice pink stem borer, Sesamia inferens (Walker), (Lepidoptera: Noctuidae) - Sampathkumar M	Distribution and genetic diversity of tomato leafminer, <i>Tuta absoluta</i> population in India in relation to sterile insect technique application – Ashok Hadapad
		Session 7: Biological Control: Industrial Perspective and Policy Issues	
15:00- 15:15	Releases of egg parasitoid, <i>Anastatus fulloi</i> for control of litchi stink bug, <i>Tessaratoma papillosa</i> - Yi Hui Wu	Access and benefit sharing and classical biological control: The role of IOBC - Barbara Barratt	Functional response of indigenous species Nesidiocoris tenuis (Reuter) to invasive leafminer, Tuta absoluta (Meyrick)- Saraswati Negi



15:15- 15:30	Area wide farmer participatory biomanagement of rhinoceros beetle in coconut plantations - Chandrika Mohan		15:15- 15:30	Evaluation of biological control options for the management of <i>Tuta absoluta</i> (Meyrick) (Lepidoptera: Gelechiidae) on tomato – Sridhar Vaddi
15:30- 15:45	Impact of release of classical weed controlling agent <i>Cecidochares connexa</i> (Macquart) (Diptera: Tephritidae) on the population of Siam weed <i>Chromolaena odorata</i> King and Robinson (Asteraceae) in Karnataka - Shylesha A N	Current status and future perspectives of natural enemies for pest control in Taiwan - Lu Mei-Chun	15:30- 15:45	Efficacy of integrated pest management tools evaluated against <i>Tuta absoluta</i> (Meyrick) (Lepidoptera: Gelechiidae) on tomato in India – Padavala Swathi
15:45- 16:00	Aphid population modified the biocontrol activity of ladybirds - Desh Deepak Chaudhary	Evaluation of different volumes of larvae L3 of <i>Ceratitis capitata</i> in parasitic devices to <i>Diachasmimorpha longicaudata</i> in massive breeding conditions in the fruit fly national program, Costa Rica - Rossy Morera-Montoya	15:45- 16:00	Tuta absoluta, a new pest in IPM tomatoes in the Senegal - Elhadji Seigne Sylla
16:00- 16:30	,	Refreshment Break		,
16:15- 16:30	Biological suppression of invasive rugose spiraling whitefly Aleurodicus rugioperculatus Martin in coconut - Selvaraj K	An assessment on the role of different stakeholders for the promotion of biopesticides in Nepal - Shalik Adhikari	16:15- 16:30	Evaluation of different management options against South American tomato leafminer, <i>Tuta absoluta</i> in Nepal – Lalit Sah
16:30- 16:45	Influence of weaver ant, <i>Oecophylla smaragdina</i> Fabricius (Hymenoptera: Formicidae) on mealybug parasitism by encyrtid parasitoid (Chalcidoidea: Encyrtidae) - Nalini T S	Development, registration and commercialization of smart agri biologicals for sustainable crop production and protection: challenges and opportunities - Virender Dhingra	16: 30- 16: 45	Risk assessment and management of tomato leafminer, <i>Tuta absoluta</i> -Hossain M S



16:45- 17:00				16:45- 17:05	Discussion - All
				17:05- 17:15	Closing remarks & closure of <i>Tuta absoluta</i> Workshop – Rangaswamy Muniappan
17:15 18:30			ICBC Poster session	n	
18:30- 20:00	Cultural Events				
20:00			Dinner		
Time	Septe	ember 29 - Saturday			
08:30	Field	visit for Third International Worksho	p of the IOBC Globa <mark>l Working G</mark> roup o	on Bi <mark>olo</mark> gical Conti	rol and Management of Parthenium Weed
			Coronet Hall		
	ICBO	C Session 6: Production and Utilization	n of Macrobials for Insect Pest Manager	ment	
08:30-09	9:00	Optimizing the genetics of biocontrol ag	gents for classical and augmentative applic	cations - Richard Sto	outhamer
09:00-09	9:30	Macrobials losing out to microbials: Ho	w to tilt the scales? - Chandish R Ballal	.01	
09:30-09	Classical biological control of insects and their impact in developed and developing countries: A comparison using the BIOCAT database - Stefan Toepfer			parison using the BIOCAT database - Stefan	
09:45-10	0:00	Efficacy of augmentative release of the	parasitoid wasp, Bracon hebetor Say again	nst the pearl millet e	ear-head miner - Mame Fatoumata Goudiaby
10:00-10	0:15	Optimizing the mass production system	of lacewing - Hungju Chen		
10:15-10	0:30	Biological control potential of two spec	ies of tephritid fruit fly by parasitoid wasp	os (Braconidae: Opii	nae) - Mor Salomon



10:30-11:00	Refreshment break
11:00-11:15	A new approach in the tricho card preparation for the inundative release of <i>Trichogramma</i> spp Jeyarajan Nelson S
11:15-11:30	Incidence of egg and larval parasitoids of Chilo partellus (Swinhoe) in kharif maize - Pradyumn Kumar
11:30-11:45	Spatial distribution of cabbage aphid, <i>Brevicoryne brassicae</i> (L.) and its parasitoid, <i>Diaeretiella rapae</i> (McIntosh), under sub-temperate conditions of Himachal Pradesh, India - Subhash Chander Verma
11:45-12:00	Potential of Sancassania sp. as a biocontrol agent of white grub species (Coleoptera: Scarabaeidae) - Sreedevi Kolla
12:00-12:15	Field efficacy of the larval parasitoid, Bracon brevicornis (Wesmael) for the management of mulberry leaf roller, Diaphania pulverulentalis
	Hampson on mulberry in Tamil Nadu and its safety to silkworm, Bombyx mori Linnaeus - Mahiba Helen
12:15-12:30	Influence of host plant on the biology of Tetranychus truncatus Ehara (Prostigmata: Tetranychidae) and its predator, Neoseiulus longispinosus
	(Evans) (Mesostigmata: Phytoseiidae) - Haseena Bhaskar
12:30-14:00	Lunch Break
14:00-14:15	Reproductive performance of <i>Trichomalopsis uziae</i> Sureshan and Kumar, as influenced by density of its female and host with a note on host exposure duration for parasitism- Narendra Kumar J B
14:15-14:30	Effect of inoculative releases of Trichogramma chilonis Ishii against early shoot and internode borers in sugarcane – Visalakshi Mahanthi
14:30-14:45	Studies on the predatory potential of <i>Geocoris ochropterus</i> (Fieber) (Hemiptera: Lygaeidae) – Richa Varshney
14:45-15:00	Biointensive pest management strategies for the control of bud borer, <i>Hendecasis duplifascialis</i> Hampson, and blossom midge, <i>Contarinia maculipennis</i> Felt in jasmine - Suganthi Gopinathan
15:00-16:00	Poster Session
16:00-16:30	Plenary session
16:30-17:30	Refreshment break followed by General Body Meeting of Society for Biocontrol Advancement, Bengaluru



APPROACHES & APPLICATION 27 - 29 SEPTEMBER, 2018 BENGALURU, INDIA

Poster Sessions: Utsav Hall

Session 1: Biodiversity, Biosecurity and Conservation Strategies (September 27 - Thursday)

	- O
S1 PP 1	New distributional record of <i>Steinernema hermaphr<mark>oditum</mark> (</i> Nematoda: Steinernematidae) from Kerala, India
	Anes K M, Jinu Sivadasan, Merin Babu and Joseph Rajkumar A
S1 PP 2	Diversity of spiders in the tomato ecosystem
	Anusree S S and Mithra Mohan
S1 PP 3	Characterization of entomopathogenic nematodes from subtropical regions of India and their efficacy against soil-dwelling life stage of
	Helicoverpa armigera
	<u>Devindrappa M</u> , Jagadeesh Patil, Ban <mark>sa Si</mark> ngh and Krishan Kumar
S1 PP 4	Survey and surveillance of natural enemies in mango ecosystem
	<u>Gundappa,</u> Balaji Rajkumar and Shu <mark>kla P</mark> K
S1 PP 5	The diversity of coccinellid predators of sucking pests on tempe <mark>rate fruits</mark> in Jam <mark>mu a</mark> nd Kashmir
	Mahendiran G
S1 PP 6	Diversity, abundance and predation potential of major aphidophagous predators of Aphis odinae (Van der Goot) (Hemiptera: Aphididae) in
	cashew
	Maruthadurai R and Desai A R
S1 PP 7	Predictive habitat distribution modelling framework for root-knot nematode, Meloidogyne enterolobii - an emerging pest in India
	Prasanna Holajjer, Sivaraj N, Bharath H Gawade, Khan Z and Sarath Babu B
S1 PP 8	Biodiversity of pollinators in four bee-friendly plant species
	Pratheepa M, Amala U and Shivalingaswamy T M
S1 PP 9	Arthropod diversity in rose, jasmine and cock's comb ecosystem
	Ramya R S, Ganesh Kumar M and Ranjith M
S1 PP 10	Report of a mermithid nematode infecting Spodoptera spp., Amyna axis and Chrysodeixis spp. in the southern districts of Rajasthan
-	Ramesh Babu S, Somvanshi V S, Meena P K, Victor Phani, Khan M R, Khushbu Chauhan and Pramod Rokadia
	,,,,,,,,,



S1 PP 11	Seasonal incidence and natural enemy complex of aphid, Aphis punicae Passerini (Hemiptera: Aphididae) infesting pomegranate in Kashmir
	Sajad Mir and Naveed Anjum
S1 PP 12	Redescription and biology of a common predatory pentatomid, <i>Eocanthecona furcellata</i> (Wolff) (Hemiptera: Pentatomidae: Asopinae)
	Salini Santhamma
S1 PP 13	Diversity of erebid moth (Lepidoptera: Erebidae) of Aligarh, Uttar Pradesh, India, their pest status and biocontrol to some economically
	important plants
	Shahabab Ahmad Farooqui and Hina Parwez
S1 PP 14	A comparison on abundance of parasitoids and predators in organic and conventional basmati rice
	Sudhendu Sharma, Shera P S and Sangha K S
S1 PP 15	Crop diversification enhances conservation of native predatory bug, Nesidiocoris tenuis (Reuter) (Heteroptera: Miridae) in tomato
	Amala U, Shivalingaswamy T M and Pratheepa M
S1 PP 16	Social spider, Stegodyphus sarasinorum as a bio-control agent and its conservation strategies
	Sampathkumar M and Chitra Shanker
S1 PP 17	Banker plants for augmentation and conservation of Encarsia sophia (Hymenoptera: Aphelinidae) for sustainable control of whitefly, Bemisia
	tabaci (Hemiptera: Aleyrodidae) in polyhouses
	Gopalakrishna Pillai and Ganga Visalakshy
S1 PP 18	Intercropping – a way for <i>in situ</i> conservation of natura <mark>l enemies in p</mark> igeonpea, <i>Cajanus cajan</i>
	Shivalingaswamy T M, Raghavendra A, Amala U and Shylesha A N
S1 PP 19	Taking advantage of the Foldscope in biocontrol research and practice
	Sreerama Kumar Prakya
S1 PP 20	Utility of nematodes as baits for diversity analysis of nematophagous fungi from selected agro-climatic zones of India
	Rami Kassam, Deeba Kamil and Uma Rao
S1 PP 21	Plant growth promoting and biocontrol Actinobacteria from temperate regions
	Radha T K, Rupa T R, Selvakumar G, Ganeshamurthy A N and Chinthana K L
S1 PP 22	The first report of Steinernema cholashanense (Rhabditida: Steinernematidae) from India and its biocontrol potential against potato pests
	Priyank Mhatre, Jagadeesh Patil, R Vijayakumar, EP Venkatasalam and Divya K L



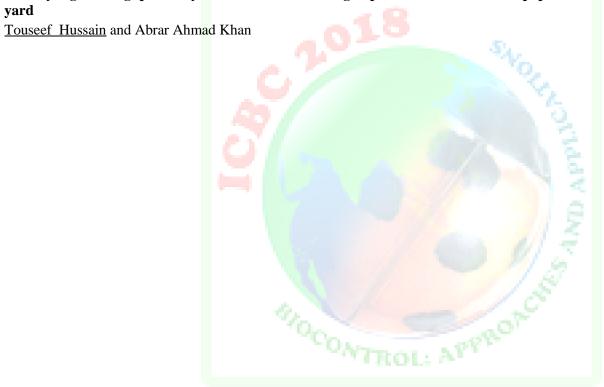
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S1 PP 23 Natural enemies in mango ecosystem

Shivamurthy and Jiji T

An easy high throughput analysis method for screening of potential biosurfactants population isolated from Shakurbasti railway diesel engine S1 PP 24

yard





APPROACHES & APPLICATION 27 - 29 SEPTEMBER, 2018 BENGALURU, INDIA

Poster Sessions: Utsav Hall

Session 2: Biotechnological Approaches in Biocontrol (September 27 - Thursday)

Dession 20	Diotectifiological Approaches in Diocontrol (September 27 Thatsday)
S2 PP 1	Diversity and molecular phylogeny of Bt receptor genes in the genome of brinjal shoot and fruit borer, Leucinodes orbonalis (Lepidoptera:
	Crambiidae) Kariyanna B, Aditi Agrawal, Venkatesan T, Gandhi Gracy R, Jalali S K and Mohan M
S2 PP 2	Development of transgenic cotton (Gossypium hirsutum L.) over expressing a pectin methylesterase gene for broad spectrum resistance against crop insects
	Alka Srivastava, Gourav Jain and Praveen C Verma
S2 PP 3	Molecular characterization and phylogeny of Indian coccinellids
	Gandhi Gracy R, Venkatesan T, Srinivasa Murthy K and Jalali S K
S2 PP 4	Identification of Cry toxin receptor homologs in a de novo transcriptome and their altered expression in resistant pink bollworm
	Pectinophora gossypiella
	Aditi Agrawal, Venkatesan T, Gandhi Gracy R, Mohan M, Ramya R S and Rangeshwaran R
S2 PP 5	Extract, Transform, Load (ETL): A data warehouse technique involved in decision support system for assisting in integrated pest management
	Cruz Antony J and Pratheepa M
S2 PP 6	Identification and isolation of arcelin gene from bruchid resistant pulse variety, Phaseolus lunatus by designing gene specific primer
	Hilda K, Bhuvaragavan S and Janarthanan S
S2 PP 7	Combining proteomics and transcriptome sequencing to identify putative RNAi targets for the mealybug, Phenacoccus solenopsis and their
	functional validation
	Sanchita Singh, Surjeet Kumar Arya, Praveen C Verma and Subhi Srivastava
S2 PP 8	Fern rhizome lectin confers broad-spectrum insect resistance in transgenic tobacco - Sushmita and Praveen C Verma



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Session 3: Production and Utilization of Microbials for Insect Pest and Disease Management (September 28 - Friday)

S3 PP 1	Pseudomonas fluorescens as a biological control agent against Plutella xylostella in cabbage
	Kandan A, Amala U, Rangeshwaran R, Bakthavatsalam N and Chandish R Ballal
S3 PP 2	Potential of entomopathogenic fungi against tea mosquito bug, Helopeltis antonii Signoret infesting cashew
	Smitha M S, Nithin K N and Sobhana A
S3 PP 3	Role of aphid derived bacteria in degradation of neonicotinoid insecticide imidacloprid
	Mahesh Yandigeri, Sanjay Yalashetti, Mohan M and Sivakumar G
S3 PP 4	Bioefficacy of different biopesticides against major foliage feeders on soybean [Glycine max (L.) Merrill]
	Hemant Swami
S3 PP 5	Microbial biocides – prominent alternatives of tea disease management
	Satya Ranjan Sarmah, Pranabanand Bhattacharyya, Rofika Begum, Prsanta Dutta and Anoop Kumar Barooah
S3 PP 6	Comparative efficacy of liquid and talc-based formulations of <i>Trichoderma asperellum</i> with tebuconazole against <i>Cercospora</i> leaf spot of bhindi
	Reshmy Vijayaraghavan, Dilna N, Anjaly Varghese and Fridin Davis
S3 PP 7	Cow manure compost inoculated with <i>Trichoderma</i> isolate for the management of sunflower charcoal rot caused by <i>Macrophomina</i> phaseolina
	Raja J
S3 PP 8	Biological control of tomato collar rot by endophyte Bacillus haynesii 2P2
	Pramod Kumar Sahu, Brahmaprakash G P and Anil K Saxena
S3 PP 9	Comparative infectivity of Lecanicillium spp. to rice hoppers
	Hari Sankar S S and Reij Ranj O P



S3 PP 10	Sequence analysis and bioassay of <i>Bacillus thuringiensis</i> (NBAIR-BTAN4) shows that it is a promising candidate for coleopteran and lepidopteran pests
	Rangeshwaran R, Mohan M, Shylesha A N, Mahesh Yandigeri, Apoorva V, Sivakumar G and Jagadeesh Patil
S3 PP 11	Management of chilli anthracnose using mycopesticides
	Neelam Joshi, Sangha K S, Shera P S and Buttar D S
S3 PP 12	A success story in developing and commercializing a biopesticide "SOLDIER"- A wettable powder formulation of an entomopathogenic nematode, <i>Heterorhabditis indica</i> for managing cryptic pests in different agroecosystems in India
	Kumar S, Ghosh S K, Natraj T and Mahesh G Shetty
S3 PP 13	Isolation and characterization of <i>Serratia marcescens</i> , as a bacterial pathogen in fruit piercing moths, <i>Eudocima (Othreis) materna</i> (L.) (Lepidoptera: Noctuidae)
	Vandana Viswanath, Arthikirubha Ayyasamy and Kamala Jayanthi P D
S3 PP 14	Isolation of entomopathogenic nematodes (EPNs) and their bio-efficacy against insect-pests of sugarcane in Maharashtra
	Yogesh Thorat, Borse D N, Holkar S K, Pathak A D and Singh S N
S3 PP 15	Evaluation of entomopathogenic fungi against <i>Bemisia tabaci</i> in tomato and capsicum under protected cultivation
	Ramanujam B and Poornesha, B
S3 PP 16	Survey on polyhouse pests of vegetable cowpea in Kottayam district of Kerala and their management using entomopathogenic fungi
	Sible George Varghese, Praveena R and Ambikadevi D
S3 PP 17	Role of gut microflora in toxicity of Bacillus thuringiensis subspecies galleriae to the larvae of Spodoptera litura (Lepidoptera: Noctuidae)
	Sanjay Yalashetti, Onkarappa Rudrappa, Mahesh S Yandigeri and Mohan M
S3 PP 18	Evaluation of bioagents for the management of nematodes in cardamom
	Chinchu P Babu and Narayana R
S3 PP 19	Isolation, identification and evaluation of native isolate of entomopathogenic nematode, <i>Heterorhabditis indica</i> Poinar, Karunakar and David (Tylenchida: Rhabditidae) against banana stem weevil, <i>Odoiporus longicollis</i> (Olivier) (Coleoptera: Curculionidae)
	Giribabu Palaniappan, Anuradha C, Padmanaban B, Anitha Sree T and Uma S



S3 PP 20	Bio-efficacy of different biological control agents for the management of chilli fruit rot/anthracnose disease
	Raghunandan B L, Mayank V Patel, Neha M Patel and Mehta D M
S3 PP 21	Efficacy of bio-agent formulations towards the management of stem blight of sesame caused by Macrophomina phaseolina (Tassi) Goid.
	Suresh Madugula, Gangadhara Rao S V S and Upendra Rao A
S3 PP 22	Evaluation of spinosyn from Streptomyces parvulus for the control of polyphagous pests like Spodoptera litura and Helicoverpa armigera
	Ponsugumari Mahalingam and Unnamalai N
S3 PP 23	Cross infection of <i>Pieris brassicae</i> granulosis virus with other siblings of <i>Pieris</i> species
	Ramaiyer Varatharajan, Sangeeta W, Sujata PH and Rachana R R
S3 PP 24	Integrating entomopathogenic nematodes and microbes for managing ash weevil (Myllocerus subfasciatus) menace in brinjal
	<u>Umamaheswari R</u> , Rao M S and Ganga Visalakshy P N
S3 PP 25	Evaluation of bioagents for their compatibility for the development of consortium to enhance their efficacy
	Amirtha Lingam V, Tewari A K, Manju Sharma, Jatinder Kumar and Roopali Sharma
S3 PP 26	A novel suspension concentrate formulation of Bacillus thuringiensis var. kurstaki for effective management of major lepidopteran pests
	Nataraj T, Ghosh S K and Usha Nandini
S3 PP 27	Pathogenicity testing of indigenous isolates of entomopathogenic fungus, Lecanicillium lecanii against tobacco caterpillar, Spodoptera litura
	Sairam Kumar D V, Dhanapal R, Sandhya Rani C H, Manoj Kumar V and Lakshmipathy R
S3 PP 28	Evaluation of certain bio pesticides against sucking pests of BhutJalakia
	Rudra Narayan Borkakati, Saikia D K and Ramanujam B
S3 PP 29	Bioefficacy of fungal biopesticides against <i>Lipaphis erysimi</i> Kalt. (Hemiptera: Aphididae) in mustard crop
	Bhagaban Patro and Shallini Godsora
S3 PP 30	Biological control of key pest of jute, Spilosoma obliqua
	Gotyal B S
S3 PP 31	Infectivity of entomopathogenic fungal bio-agents on yellow mite, Polyphagotarsonemus latus Banks of jute
	Subrata Satpathy, Gotyal B S and Ramesh Babu V



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S3 PP 32	Efficacy of botanicals and fungal formulations for pest management in okra Udhayakumar V S, Karthik V, Khaviya Bala, Suresh K and Muthukumar P K
S3 PP 33	Eco-friendly management of lepidopteran insect pests through entomopathogenic nematodes
S3 PP 34	Rashid Pervez and Uma Rao Field evaluation of potential bioagents against chickpea wilt complex
S3 PP 35	Manju Sharma, Tewari A K, Roopali Sharma and Kumar J Validation of bioagent consortium at farmer's fields
	Tewari A K, Manju Sharma, Roopali Sharma and Kumar J
S3 PP 36	Isolation, evaluation and characterization of indigenous <i>Streptomyces</i> isolates for the management of stem and pod rot caused by <i>Sclerotium rolfsii</i>
C2 DD 27	Gururaj Sunkad, Khadarbi, Deepa H and Mahadevaswamy
S3 PP 37	Biointensive management of foliar blight and wilt of tomato in Uttarakhand Bhupesh Chandra Kabdwal, Roopali Sharma, Rashmi Tewari, Tewari A K and Kumar J



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Session 4: Biocontrol Compatible Approaches (September 28 - Friday)

S4 PP 1	Effect of bioprotectant on the seasonal incidence of gram pod borer Helicoverpa armigera
	Anil Vyas and Gaurang Chhangani
S4 PP 2	Influence of certain newer insecticides on natural enemy population in rice ecosystem
	Devu Rakshith Roshan and Raju S V S
S4 PP 3	In search of chemical cues for attracting <i>Triommata coccidivora</i> (Diptera: Cecidomyiidae), a potential predator of mealybugs
	<u>Jayanthi Mala B R</u> , Kamala Jayanthi P <mark>D, Sh</mark> ivashankara K S and David K J
S4 PP 4	Effect of horticultural mineral oil on <i>Tetranychus truncatus</i> Ehara (Prostigmata: Tetranychidae) and its predator <i>Neoseiulus longispinosus</i> (Evans) (Mesostigmata: Phytoseiidae)
	Kavya Yadav and Haseena Bhaskar
S4 PP 5	Development of bio-rational based management approach against mango hopper in Bangladesh
	Md. Shahadath Hossain
S4 PP 6	Biochemical mechanism of resistance to tomato fruit borer, <i>Helicoverpa armigera</i> (Hubner) in mid hills of Himachal Pradesh
	Priyanka Thakur, Rana R S, Sharma K C and Nitesh Sharma
S4 PP 7	Compatibility of the entomopathogenic fungi Lecanicillium saksenae with chemical, botanical and microbial pesticides
	Reji Rani O P
S4 PP 8	Integrating biological control and insecticide-an effective management strategy for maize stem borer Chilo partellus Swinhoe
	Srinivasa Murthy Kotilingam and Choubey B K
S4 PP 9	Essential oil based nanoemulsion for housefly, Musca domestica management
	Senthoorraja R, Sowmya M, Subaharan K, Subramanya T M, Vinay and N. Bakthavatsalam
S4 PP 10	Breaking plant defenses: The case of tannin expulsion in <i>Hyblaea puera</i> Cramer
	Bindu K Jose, Sajeev T V and Anoop E V



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S4 PP 11	Toxicity of reduced risk insecticides on common green lacewing <i>Chrysoperla zastrowi sillemi</i> (Neuroptera: Chrysopidae) larvae via ingestion and direct spray techniques under laboratory conditions
	Kodandaram M H, Deepak Kushwaha and Rai A B
S4 PP 12	Efficacy of phytoncides on coconut rhinoceros beetle, Oryctes rhinoceros Linn.
	Ravindran Pattali, <u>Kesavan Subaharan,</u> Chandran K P, Vibina, S <mark>ubra</mark> manya T M and Senthoorraja R
S4 PP 13	Management of fruit borer, <i>Helicoverpa armigera</i> (Hübner) infesting tomato
	Safna M and Kumud V Naik
S4 PP 14	The efficacy of Streptomyces spp., Bacillus spp and extracts of Impatiens balsamina on the mycelial growth of the fungi Colletotrichum
	truncatum, C. gloeosporioides causing anthracnose disease on dragon fruit

Dang Thi Kim Uyen, Rangaswamy Muniappan, Tran Vu Phen and Nguyen Van Hoa





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Session 5: Biological control of invasive pests and weeds (September 28 - Friday)

S5 PP 1	Current status of invasive rugose spiralling whitefly, Aleurodicus rugioperculatus Martin (Hemiptera: Aleyrodidae), in Karnataka, India
	Sanjay Kumar Pradhan and Shylesha A N
S5 PP 2	Bioefficacy of entomopathogenic nematodes against serpentine leaf miner, Liriomyza trifolii Burgess (Diptera: Agromyzidae) in oilseed crops
	Gayatri Bandaru and Duraimurugan P
S5 PP 3	Temperature dependent development of <i>Oenopia conglobata</i> (L.) (Coleloptera: Coccinellidae) fed on <i>Aphis gossypii</i> (Glover) (Hemiptera: Aphididae)
	Mohammad Amin Jalali and Mahdi Ziaaddini
S5 PP 4	Status of new invasive coconut rugose spiralling whitefly, Aleurodicus rugioperculatus Martin and scope for bio-control in Tamil Nadu
	Rajamanickam K, Srinivasan T, Ramaraju K, Alagar M, Selvaraj K and Venkatesan T
S5 PP 5	Population fluctuation of cotton mealy bug, <i>Phenacoccus solenopsis</i> Tinsley in relation to weather parameters in Bt cotton ecosystem
	Arunkumar Hosamani, Hanchinal S G and Akshatha G
S5 PP 6	The role of computational analysis in the phylogenetic interpretation of the classical biological control
	Namrata Singh, Sunil Archak, Vinod Pandit and Malvika Chaudhary
S5 PP 7	Biocontrol of five invasive weeds of Meghalaya- A Case Study
	Rajib Kumar Borah, Jimi Borah and Shahnin Akhtar Islam



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Session 6: Production and Utilization of Macrobials for Insect Pest Management (September 29 - Saturday)

Integrating biocontrol agents with farmers' practices for the management of diamondback moth, <i>Plutella xylostella</i> (Linnaeus), in cabbage Omprakash Navik, Ramya R S, Jalali, S K, Shivalingaswamy T M and Jagadeesh Patil Evaluation of bio-control agents against shoot and fruit borer, <i>Earias vittella</i> (Fabricius), on okra
Evaluation of bio-control agents against shoot and fruit borer, <i>Earias vittella</i> (Fabricius), on okra
Sharad Galande, R V Nakat, Pokharkar D S, Tamboli N D, Hole U B and Kharbade S B
Resource-efficient and cost-reduction technology for <i>Trichogramma chilonis</i> Ishii production
Lakshmi Manisha Bachu, Visalakshi M, Sairam Kumar D V and Kishore Varma P
Development of an abiotic-stress tolerant strain of the egg parasitoid, Trichogramma chilonis Ishii, and its utilization for pest management in
India
<u>Jalali S K</u>
Influence of photoperiod and temperature on the biological parameters of four trichogrammatids
Lalitha Y, Jalali S K, Venkatesan T and Omprakash Navik
Developmental biology and predatory potential of <i>Stethorus punctillum</i> Weise against two-spotted spider mite, <i>Tetranychus urticae</i> Koch, on ladies' finger
Rajendra Nath Singh, Sandeep Kumar Sathua, Shafia Zainab, Raghuraman M and Srivastava C P
Feeding potential of the coccinellid, Cheilomenes sexmaculata (Fabricius) (Coleoptera: Coccinellidae), on cowpea aphid, Aphis craccivora Koch
Jayalakshmi Ganguli, Sonalika Kolhekar, Ganguli R N and Saurabh Padamshali
Tri-trophic interaction of the different diet-fed <i>Corcyra cephalonica</i> (Stainton) on feeding efficiency of reduviid predator, <i>Sycanus collaris</i> (Fabricius), under laboratory conditions
Rathindra Nath Ganguli
Efficacy of the egg parasitoid, <i>Trichogramma chilonis</i> Ishii, in the management of brinjal shoot and fruit borer, <i>Leucinodes orbonalis</i> (Guenee)



	Manoj Kumar Mahla, Gaurang Chhangani and Beerender Singh
S6 PP 10	Ecofriendly management of <i>Pseudodendrothrips mori</i> Niwa (Thysanoptera: Thripidae) and its impact on abundance of predatory coccinellids in mulberry ecosystem
	Nalliappan Sakthivel and Sivaprasad V
S6 PP 11	Survey for parasitoids of shoot, panicle and capsule borer, <i>Conogethes punctiferalis</i> (Guenee), (Lepidoptera: Crambidae) of small cardamom in Cardamom Hill Reserve (CHR), Kerala
	Thiyagarajan Ponnusamy, Praseeda A S and Rema Shree A B
S6 PP 12	Field efficacy of <i>Pediobius imbrues</i> (Hym <mark>eno</mark> ptera: Eulophidae) parasitoid on coconut slug caterpillar <i>Macroplectra nararia</i> Moore
	(Lepidoptera: Limacodidae)
	<u>Chalapathi Rao N</u> , Krishna Rao G and <mark>Raman</mark> andam G