Second International Conference on Biological Control: Biocontrol Contributions to One Health (2icbc2025)

Dates: 25–28 February 2025 **Venue: Radisson Blu Atria Bengaluru, India**

Programme Schedule

Time	Day 1	25 February 2025	Tuesday	Chancery
14.00–14.30	Registration and Welcome Drink			
14.30–15.30	Opening Ceremony			
15.30–15.45	High Tea			
15.45–17.15	**Plenary Session-I** **Chairs** Dr S.N. Sushil Dr Prakya Sreerama Kumar **Convenors** Dr K. Sreedevi Dr Sagar, D.			
	Advances needed to sustain the next chapter(s) of biological control – **Sathyamurthy Raghu**			
	Biological control in Europe – a path forward to reduce the usage of chemical pesticides - **Johannes Jehle**			
	Biological control is considered high risk by most governments around the world – why is this and how can it be addressed? - **Andy Sheppard**			
17.15–17.30	Session Break			

17.30–19.00	**Session I: Biocontrol Entrepreneurship: Industries, Start-Ups and Incubation Centres** **Chair** Dr P.K. Singh **Co-Chairs** Dr Poonam Jasrotia Dr Archana Sinha Mr R.G. Agarwal **Convenor** Dr S.N. Sushil **Co-Convenor** Dr R. Gandhi Gracy **Panellists** Academia/Regulatory/Industry Representatives		
19.30 – 20.30	**Cultural Programme**		
20.30 onwards	**Gala Dinner**		
Day 2	**26 February 2025**	**Wednesday**	
Council			
9.30–11.15	**Industry–Regulators–Academia Interface Meeting** **Chairs** Dr P.K. Singh Dr S.N. Sushil **Convenors** Dr R. Gandhi Gracy Dr Jagadeesh Patil	11.30–13.00	**Panel Discussion: Potential of Biological Control to Gradually Replace Chemical Control — Myth or Reality?** **Chairs** Dr S.N. Puri Dr R. Muniappan **Convenor** Dr S.N. Sushil **Co-Convenor** Dr. G. Sivakumar

			Panellists (International) Dr Surendra Dara Dr Johannes Jehle Dr Raghu Sathyamurthy Dr Shiroma Sathyapala **Panellists (National)** Dr Chandish R. Ballal Dr P.K. Chakrabarty Dr Malvika Chaudhary Dr Markandeya Gorantla Dr Poonam Jasrotia Dr R.W. Alexander Jesudasan Dr N.K. Krishna Kumar Dr T.M. Manjunath Dr M.K. Naik Dr B.V. Patil Dr T.P. Rajendran Dr V.V. Ramamurthy Dr B. Sarath Babu Dr Rajan Sharma Dr P.K. Singh Dr Abraham Verghese

Lead Speeches and Oral Presentations			
Chancery		**Chamber-2**	
Time	**Session**	**Time**	**Session**
Session II: Biodiversity, Biosecurity and Biosystematics of Crop Pests and Natural Enemies **Chairs** Dr Sunil Joshi Dr Srinivasan Ramasamy **Convenors** Dr Shashank P.R. Dr Rachana R.R.		**Session III: Satellite Symposium on Insect Multi-Omics: Molecular Insight Meets Pest Management Solutions** **Chairs** Dr Rakesh Mishra Dr Subba Reddy Palli Dr T. Venkatesan **Convenors** Dr M. Mohan Dr Mahesh Yandigeri Dr Ramya R.S.	
Lead Speeches		**Lead Speeches**	
09.30–9.50	S02-LS-01: Insect ecoacoustics: the state of the art-**Rohini Balakrishnan**	09.30–09.50	S03-LS-01: Indian context of Insect genome editing vis-à-vis global scenario–**R. Asokan**
09.50–10.10	S02-LS-02: Microbiome-mediated adaptation in insects feeding on ephemeral diets–**Shantanu P. Shukla**	09.50–10.10	S03-LS-02: Silver Anniversary of RNAi Discovery: Progress and Promise to Become a Viable Biocontrol Method for Pests and Diseases–**Subba Reddy Palli**
10.10–13.00	Oral Presentations	10.10–10.30	S03-LS-03: Redefining Pest Control Through Silent Strike - The Tale of RNAi from Lab to Land–**T. Venkatesan**
S02-OP-01: Diversity and relative abundance of predators and parasitoids of *Spodoptera frugiperda* (J.E. Smith) in the maize ecosystem- **Vijay Bhamare**		10.30–11.15	**Panel Discussion on Next-Gen Pest Control: Overcoming Policy Hurdles in Genomic Innovations**

S02-OP-02: Cryptochetidae (Diptera): First record of parasitoid family from India or is it a recovery? - **Prabhu C. Ganiger**		
11.15–11.30	**Session Tea Break**	
S02-OP-03: Record of *Asphondylia* gall midge (Diptera: Cecidomyiidae) as a new species damaging fruit of mango in India- **B.S. Gotyal**	**Session IV: Invasive Alien Pests, Diseases and Weeds: Biocontrol Interventions** **Chairs** Dr Andy Sheppard Dr Prakya Sreerama Kumar **Convenors** Dr M. Sampathkumar Dr Akanksha Nagpal	
S02-OP-04: Drawing phylogenetic relationships between completely parasitic and entomophytophagous species of Braconidae with disparate morphologies and cross-taxon hosts- **Ankita Gupta**	**Lead Speeches**	
S02-OP-05: Rice plant health management in diverse rice ecosystems of India - impact on biodiversity and ecosystem services- **Gururaj Katti**	11.30–11.50	S04-LS-01: Gall-inducing insects in classical biological management of weeds– **Anantanarayanan Raman**
S02-OP-06: Abundance and diversity of insect natural enemies in the cultivated species of cotton- **Prabhulinga T.**	11.50–12.10	S04-LS-02: Classical biological control of *Mikania micrantha* in the Asia-Pacific region: current status and future prospects–**K.V. Sankaran**
S02-OP-07: Taxonomic notes on the predatory thrips in India- **Rachana R.R.**	**12.10–13.00**	**Oral Presentations**
S02-OP-08: Leafhopper diversity in the Andaman and Nicobar Islands: insights from the preliminary study- **Rajgopal N.N.**	S04-OP-01: Evaluation of diet, host preference and feeding potential of *Apertochrysa astur* Banks (Neuroptera: Chrysopidae), a potential predator against rugose spiraling whitefly, *Aleurodicus rugioperculatus* on coconut- **N.B.V. Chalapathi Rao**	

S02-OP-09: Native parasitoids of the invasive pest fall armyworm *Spodoptera frugiperda* (J.E. Smith) (Lepidoptera: Noctuidae) in southern Rajasthan India- **S. Ramesh Babu**	S04-OP-02: Mapping the success of *Cecidochares connexa* inoculation in curbing *Chromolaena odorata* invasion in South India- **Mudagadde G. Deeksha**
S02-OP-10: Characterisation of entomopathogenic nematodes from semi-arid areas of Rajasthan for their potential use as larvicides against mosquitoes- **Istkhar Rao**	S04-OP-03: Entomopathogenic fungi potential alternative to combat invasive thrips, *Thrips parvispinus* (Karny) in chilli ecosystem of northeastern Karnataka- **Arunkumar Hosamani**
S02-OP-11: Exploring the taxonomy of Indian Tortricidae: past, present, and future - **Shashank P.R.**	S04-OP-04: Reviving an old ally: deploying *Podisus maculiventris* to control *Nezara viridula* in Dutch Greenhouses- **Raghavendra Reddy Manda**
S02-OP-12: Diversity and diagnostics of *Rhinyptia* spp. (Coleoptera: Scarabaeidae: Rutelinae) of Indian fauna- **Kolla Sreedevi**	S04-OP-05:Fostering sustainable agriculture: The role of CABIs Plantwise Plus Program in promoting biological practices- **Akanksha Nagpal**
S02-OP-13: Insect pests and natural enemy fauna of major fruits of Vijayapura district, Karnataka, India- **Sunitha N.D.**	S04-OP-06: Assessing the impact of classical biological control agent, *Anagyrus lopezi* against *Phenacoccus manihoti* in cassava plantations of India- **M. Sampath Kumar**
S02-OP-14: Species richness and diversity of predatory spiders in *Bt* cotton ecosystem- **Udikeri, S.S.**	S04-OP-07: Alternate hosts of fall armyworm (*Spodoptera frugiperda*) in maize fields: an opportunity for conservation biological control- **Suby S.B.**
	S04-OP-08: Biocontrol potential of the generalist predator, *Chrysoperla zastrowi* sillemi (Esben-Petersen) against South American tomato pinworm, *Phthorimaea absoluta* (Meyrick) (Lepidoptera: Gelechiidae)- **Surjeet Kumar**
	S04-OP-09: Efficacy of native *Metarhizium rileyi* isolates from field evaluation against Fall armyworm in Maize- **M. Visalakshi**
13.00–14.00	**Lunch Break**

Session V: Biocontrol-Compatible Technologies, Conservation Strategies and Pollinators **Chairs** Dr. Raghu Sathyamurthy Dr. K.V. Sankaran **Convenors** Dr. Ankita Gupta Dr. Prabhulinga T.		**Session VI: Ecological Chemistry in Biological Control: Pheromone Synthesis, Sensors and Nanotechnology** **Chairs** Dr. M. Shanti Dr. Merid Getahun **Convenors** Dr. Deepa Bhagat Dr. B.S. Gotyal	
Lead Speeches		**Lead Speeches**	
14.00–14.20	S05-LS-01: Keeping crop protection relevant to modern times with the new IPM model–**Surendra Dara**	14.00–14.20	S06-LS-01: Smart optical sensors for sustainable pest management in agriculture–**Nilanjan Dey**
14.20–14.40	S05-LS-02: From Southeast Asia to West Africa: Two Decades of Biocontrol Innovation Against the Legume Pod Borer – **Ramasamy Srinivasan**	14.20–14.40	S06-LS-02: Mating disruption trials of Brinjal Shoot and Fruit Borer in Bangladesh–**R. Muniappan**
14.40–15.00	S05-LS-03: Diversified cropping systems for pest resilience and enhanced efficacy of biocontrol agents–**Sevgan Subramanian**		
15.00–17.30	**Oral Presentations**	**14.40–15.30**	**Oral Presentations**
S05-OP-01: Sublethal effects pesticides on parasitoids: harm or hormesis?- **Basana Gowda G.**		S06-OP-01: Eco-friendly pest management: innovations in pheromone formulations, nanosensors, and nanotechnology for sustainable agriculture- **Deepa Bhagat**	
S05-OP-02: Biology, life table parameters and feeding potential of predator *Sycanus versicolor* Dohrn (Reduviidae: Hemiptera)- **Gundappa**		S06-OP-02: Slow-release pheromone formulations for the management of insect pests in rice- **Padmavathi Chintalapati**	

S05-OP-03: Optimization of sterility dose of gamma radiation for the management of guava fruit fly *Bactrocera correcta* (Bezzi) (Diptera: Tephritidae) and its field performance- **Basavaraj S. Kalmath**	S06-OP-03: Evaluation of the suitable traps, dispenser and sex pheromone against the stored grain pest *Sitotroga cerealella* (Lepidoptera: Gelechidae)- **Kariyanna B.**
	S06-OP-04: Role of brown planthopper induced rice volatiles on behavioural response of wolf spider- **Vinod Kumar Padala**
	S06-OP-05: Use of essential oil repellents and pheromone trap for the management of rhinoceros beetle in endemic area- A push pull strategy- **Prathibha P.S.**
	S06-OP-06: Innovative climate-resilient liquid lure and trapping system: enhancing fruit fly (*Bactrocera* sp.) management as a biocontrol component- **Rashmi M.A.**
	S06-OP-07: Carvone-rich *Mentha spicata* essential oil: A natural alternative to synthetic fumigants against rice weevil, *Sitophilus oryzae*- **M. Shanthi**
	S06-OP-08: Advanced delivery systems for controlled release of fall armyworm, *Spodoptera frugiperda* pheromone- **Kesavan Subaharan**
	S06-OP-09: Biocontrol through scent: the role of odors in parasitoid wasp host selection- **Radhika Venkatesan**
15.30–15.45	**Session Tea Break**
S05-OP-04: Development and validation of an integrated pest management strategy in winter maize- **Mukesh Kumar Khokhar**	**Session VII: Climate-Resilient Biocontrol Technologies** **Chairs** Dr Surendra Dara Dr A. Kandan **Convenors** Dr Jagadeesh Patil Dr Amala, U.

S05-OP-05: Potential of the green lacewing (*Chrysoperla* sp.) for the control of red spider mites in *Acacia crassicarpa* mother plants in commercial nurseries of Indonesia- **Srikumar Koda Kkadan**	**Lead Speeches**	
S05-OP-06: Selection of biocontrol compatible insecticides for the conservation of natural enemies- **Anoop Kumar**	15.50–16.10	S07-LS-01: Climate shifts and biological control: balancing risks and opportunities-**Srinivasan Ramasamy**
S05-OP-07: Pectin extracted from Pomelo peel and coconut or areca nut shell as biopesticide- **Niranjan Kumar**	16.10–16.30	S07-LS-02: Climate-resilient biological control strategies for pest management–**Satya Nand Sushil**
S05-OP-08: Fusarium spp: A new entomopathogenic fungi on Tea mosquito bug, *Helopeltis theivora* (Hemiptera: Miridae)- **Madhu T.N.**	**16.30–17.30**	**Oral Presentations**
S05-OP-09: Influence of habitat manipulation on incidence and severity of pest damage in cabbage- **Nainesh B. Patel**	S07-OP-01: Unravelling the potential of Aphid hunter solitary wasp, *Carinostigmus costatus* Krombein (Hymenoptera: Sphecidae) in the natural regulation of phytophagous aphids- **Amala, U.**	
S05-OP-10: Biosafety of the entomopathogenic fungus *Lecanicillium saksenae* to non - target organisms- **Reji Rani O.P.**	S07-OP-02: An improved and cost-effective package of practices for tomato cultivation: impact on yield and pesticide Maximum Residue Levels (MRL)- **Malvika Chaudhary**	
S05-OP-11: Influence of age of factitious host egg on parasitic potential of *Anastatus* sp., an egg parasitoid of coconut coreid bug, *Paradasynus rostratus* Distant- **Jilu V. Sajan**	S07-OP-03: *Trichoderma* spp. for the management of plant health in tribal belt of North Eastern Region of India- **Pranab Dutta**	
S05-OP-12: Evaluation of dietary constituents on the survival and fitness of adult syrphid fly, *Ischiodon scutellaris* (Fabricius, 1805)- **Venu, H.S.**	S07-OP-04: Biocontrol of seed-infesting insect pests during storage: do parasitoids have a justifiable role- **Anjitha George**	
S05-OP-13: Biology, population growth parameters and foraging behaviour of the parasitoid (*Encarsia formosa* Gaham)	S07-OP-05: Evaluation of promising entomopathogenic fungi of ICAR-NBAIR against sucking pests of bhendi- **Kandan, A.**	

against greenhouse whitefly (*Trialeurodes vaporariorum*) in tomato- **Subhash Chander Verma**		S07-OP-06: Effect of pectinolytic and xylanolytic bacterial strains from termite gut for retting and quality fibre production from jute- **Manjunatha, B.S.**	
		S07-OP-07: Physiological host range and virulence of *Metarhizium pingshaense* against three key *Chilo* species, and temporal expression of virulence genes during infection of its original host, *Conogethes punctiferalis*- **Senthil Kumar, C.M.**	
		S07-OP-08: Endophytic microbes from rice landraces: a promising source for managing seed-borne diseases- **Shantharaja, C.S.**	
		S07-OP-09: Biosmart seed for managing seed and soil borne diseases in solanaceous crops- **Vimalkumar, C.**	
18.00–19.00	**Annual General Meeting of SBA**		
19.30 onwards	Dinner		
Day 3	**27 February 2025**	**Thursday**	
Session VIII: Genomics in Biological Control of Crop Pests and Diseases **Chairs** Dr Shiroma Sathyapala Dr T. Venkatesan **Convenors** Dr Sagar, D. Dr Ramya, R.S.		**Session IX: Satellite Symposium on Chemoecological Innovations in Modern Pest Management** **Chairs** Dr R. Muniappan Dr Renee Borges Dr K. Subaharan **Convenors** Dr Amala U. Dr Gundappa	
Lead Speech		**Lead Speeches**	
09.30–09.50	S08-LS-01: RNA-interference as next-gen biocontrol tool for innovative and sustainable management of invasive	09.30–09.50	S09-LS-01: Exploring livestock pathogen -vectors interaction to manage vector borne diseases– **Merid Getahun**

	species–**Kumaran Nagalingam**		
09.50–13.00	**Oral Presentations**	09.50–10.10	S09-LS-02: From local farms to global fields: the transformative impact of CREMIT pheromone technologies–**Markandeya Gorantla**
S08-OP-01: Genomic and metabolomic characterization of *Beauveria bassiana* isolates for biological control of cassava mites- **Chaithra, M.**		10.10–10.30	S09-LS-03: Leveraging chemical ecology for Indian agriculture: decoding the science of signals for sustainable pest management–**P D Kamala Jayanthi**
S08-OP-02: Deciphering genomic resistance in contrasting rice varieties: a case study on brown planthopper- **Guru Pirasanna Pandi Govindharaj**		10.30–10.50	S09-LS-04: Chemical ecology of multitrophic interactions: a goldmine of biopesticides–**Sagar Pandit**
S08-OP-03: Cracking the Case: Decoding *Bactrocera dorsalis* (Hendel) (Diptera: Tephritidae) CRISPR/Cas9 white and odorant binding protein-13 gene mutants- **Ashok Karuppannasamy**		**10.50–11.15**	**Panel Discussion**
S08-OP-04: Bioefficacy and genomic landscape of Shatpada Armour: A highly effective *Bacillus thuringiensis* var. *tolworthi* strain NBAIR Bt25 for combatting fall armyworm in India- **Manjunatha, C.**			
11.15–11.30	**Session Tea Break**		
S08-OP-05: High-quality genome assembly of a cosmopolitan insect predator, *Chrysoperla zastrowi* sillemi (Esben - Petersen) (Neuroptera: Chrysopidae)- **Mohan, M.**		**Session X: Integration of Macrobials and Microbials in Organic Farming** **Chairs** Dr Sevgan Subramanian Dr G. Sivakumar **Convenors** Dr A. Kandan Dr Richa Varshney	

S08-OP-06: Quick and precise molecular diagnostics of melon fruit fly, *Zeugodacus cucurbitae*: a pest of quarantine importance- **Srinivasa Narayana**	**Lead Speeches**	
S08-OP-07: Expression analysis of defense-related markers in the tri-trophic interactions between the *Trichoderma harzianum* TIND02, *Pseudopestalotiopsis theae*, and tea plant- **Abhay K. Pandey**	11.30–11.50	S10-LS-01: The use of *Cydia pomonella* granulovirus in organic apple production – overcoming the threat of virus resistance in codling moth– **Johannes Jehle**
S08-OP-08: miR-X regulates egg fertilization through ribogenesis in the invasive fall armyworm *Spodoptera frugiperda*- **Jyoti Pathak**	11.50–12.10	S10-LS-02: Inundative releases of biological control agents reduce *Pontederia crassipes* (Pontederiaceae) invasions in South Africa–**Samella Ngxande-Koza**
S08-OP-09: The tale of two genes and sex determination in *Maconellicoccus hirsutus* (Green): exploration for pest management via RNAi- **Gandhi Gracy Ramasamy**	**12.10–13.00**	**Oral Presentations**
S08-OP-10: Anchoring Accuracy: identifying stable reference genes for *Chrysoperla zastrowi* sillemi gene expression studies- **Ramya, R.S.**	S10-OP-01: Microbial and botanical based biopesticides for management of pod borer, *Maruca vitrata* (Pyralidae: Lepidoptera) in cowpea–**Kodandaram, M.H.**	
S08-OP-11: Decoding the genome of a pan-tropical leguminous insect pest, *Maruca vitrata* Fabricius (Lepidoptera: Crambidae)- **Sagar, D.**	S10-OP-02: Banana weevil killer: A bio-formulation for the management of banana pseudostem weevil, *Odoiporus longicollis* (Olivier)–**Mohanasundaram, A.**	
S08-OP-12: Morphological identification and molecular characterisation of indigenous strains of entomopathogenic fungi isolated from soils of major groundnut growing districts of Andhra Pradesh, India- **Sai Ram Kumar, D.V.**	S10-OP-03: Recruitment of egg parasitoid *Trichogramma chilonis* Ishii for managing fall armyworm in maize: insight from a field study- **Omprakash Navik**	
S08-OP-13: Molecular and biochemical characterisation of symbiotic bacteria *Photorhabdus* / *Xenorhabdus* spp. and its insecticidal activity against *Galleria mellonella* larvae L, white grub *Holotrichia*	S10-OP-04: Genomic insights into phytophthora pod rot and bioefficacy of *Trichoderma reesei* in pod rot disease management- **Neeraja, B.**	

serrata F. and purification of insecticidal metabolites- **Sankaranarayanan**	
S08-OP-14: Metabolomics from rhizospheric fluorescent Pseudomonads (FPs) and their potential against bacterial wilt disease of tomato- **Shanmugaiah, V.**	S10-OP-05: Efficacy of entomopathogenic nematodes and *Bacillus thuringiensis* combinations against invasive pest *Spodoptera frugiperda* (J. E. Smith) (Lepidoptera: Noctuidae) in maize- **Jagadeesh Patil**
S08-OP-15: Novel *Bacillus thuringiensis* Berliner crystal toxin gene Cry8Sa1 for resistance against the white grub *Holotrichia serrata* F. in sugarcane- **Singaravelu, B.**	S10-OP-06: Macrobials for rice pest management: successes and challenges- **Chitra Shanker**
S08-OP-16: Whole microbiome and metatranscriptome analysis of detritivorous insects' white grub and rhinoceros beetle- **Yandigeri, M.S.**	S10-OP-07: Identification of potential *Metarhizium* spp. for the ash weevil *Myllocerus subfasciatus* (Curculionidae: Coleoptera) management- **Shanmugam, P.S.**
	S10-OP-08: Characterization and field evaluation of indigenous nucleopolyhedrovirus infecting rice oriental armyworm, *Mythimna separata*- **Sivakumar, G.**
	S10-OP-09: A comprehensive year-round approach centring on *Hirsutella thompsonii* [ICAR–NBAIR–MF(Ag)66] for broad mite control in mulberry- **Prakya Sreerama Kumar**
	S10-OP-10: Evaluation of Bio-Intensive Pest and Disease Management (BIPM) modules in small cardamom at Idukki district in Kerala (India)- **Sudhakar, S.**
	S10-OP-11: Exploring *Blaptostethus pallescens* and its interactions with entomopathogens as a potential solution for thrips management in crops- **Richa Varshney**

<table>
<tr><td>13.00–14.00</td><td colspan="3">Lunch Break</td></tr>
<tr><td colspan="2">Plenary Session-II

Chairs

Dr S.N. Sushil

Dr T. Venkatesan

Convenors

Dr Deepa Bhagat

Dr A. Kandan</td><td colspan="2" rowspan="2">Session XI: Information and Communication Technology in Biological Control: Artificial Intelligence, Internet of Things, Mobile Apps, drones and robotics

Chairs

Dr Johannes Jehle

Dr M. Pratheepa

Convenors

Dr K. Selvaraj

Dr Rajgopal N.N.</td></tr>
<tr><td>14.00–14.30</td><td>Arthropod vector surveillance and management are cornerstones of global One Health–Subba Reddy Palli</td></tr>
<tr><td>14.30–15.00</td><td>Global Perspectives on Biological Control in Forestry and One Health–Shiroma Sathyapala</td><td colspan="2">Lead Speeches</td></tr>
<tr><td colspan="2" rowspan="6"></td><td>14.00–14.20</td><td>S11-LS-01: Enhancing bioprotection adoption: a digital campaign for managing Southeast Asian thrips with CABI digital tools–Malvika Chaudhary</td></tr>
<tr><td>14.20–14.40</td><td>S11-LS-02: Utilizing UAVs (drones) for application of bio-pesticides and granular insecticide formulations: opportunities and challenges–N Rama Gopala Varma</td></tr>
<tr><td>14.40–15.30</td><td>Oral Presentations</td></tr>
<tr><td colspan="2">S11-OP-01: X-ray based fruit fly screening for gherkins- Shekhar Basavanna</td></tr>
<tr><td colspan="2">S11-OP-02: Modern machine learning techniques for the detection and classification of pest and natural enemies in tomato crop- Pratheepa, M.</td></tr>
<tr><td colspan="2">S11-OP-03: Smart delivery systems for Cordyceps (=Isaria) fumosorosea for</td></tr>
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		management of invasive whiteflies in coconut- **Selvaraj, K.**
		S11-OP-04: *Leucinodes orbanalis* database: a genomic and transcriptomics web data resource- **Anu Sharma**
		S11-OP-05: National pest surveillance system: transforming pest management with AI in India- **Niranjan Singh**
15.30-17.00	**Valedictory Session**	
17.00–17.30	High Tea	
Day 4	**28 February 2025**	**Friday**
8.00–18.30	**Post-Conference Excursions** (Delegates must pre-register for one of the following excursions) 1. ICAR–NBAIR, Bengaluru 2. Bengaluru (Lal Bagh, Vidhana Soudha, Visvesvaraya Museum and ISKCON Temple) 3. Mysuru (Palace and Zoo)	

Digital Poster/Rapid Oral Session (Venue: Conclave Hall)

Jury Convenor: Dr Prakya Sreerama Kumar

Chairs: Dr Sunil Joshi, Dr A.N. Shylesha, Dr K. Sreedevi, Dr Deepa Bhagat and Dr A. Kandan

Day 2	**26 February 2025**	**Wednesday**
Time: 9:30–11:15	**Venue: Conclave Hall (Section A)**	

Session V: Biocontrol-Compatible Technologies, Conservation Strategies and Pollinators
Convenors
Dr Gundappa
Dr Ipsita Samal

Sl. No.	**Poster Number**	**Abstract title**	**Presenting Author**
1	S05-PP-01	Validation of biointensive pest management practices for the management of brinjal pests	G. Anitha
2	S05-PP-02	Impact of bio rational integrated pest management module against major pests of Sugarcane in North Coastal Region of Andhra Pradesh, India	B. Bhavani
3	S05-PP-03	Functional response of predatory mite *Neoseiulus longispinosus* (Evans) to different stages *Tetranychus urticae* Koch on carnation	Vishav Gaurav Singh Chandel
4	S05-PP-04	Sustainable control of bacterial diseases using novel bacteriophage formulations	Manoj Choudhary
5	S05-PP-05	Natural parasitism of citrus butterfly, *Papilio demoleus* by *Distatrix papilionis* (Braconidae: Hymenoptera) on acid lime	Dileep Kumar, N.T.
6	S05-PP-06	Studies on nesting habitat and nest architecture of stingless bee, *Tetragonula ruficornis* (Smith) (Hymenoptera: Apidae: Meliponini) from India	Basavaraj N. Hadimani
7	S05-PP-07	In vitro bioefficacy of fungal endophytes against *Rhizoctonia bataticola*	Shruti Sambhajirao Kadam
8	S05-PP-08	Impact of new insecticides on natural enemy complex of cotton ecosystem	Ashish Kamal

9	S05-PP-09	Non-predatory effects of *Neoseiulus longispinosus* (Evans) on *Tetranychus urticae* Koch	Shashank Kaundal
10	S05-PP-10	Acceptability and adaptability of *Trichogramma* spp.on eggs of *Samia Cynthia ricini* (Drury)	Harpreet Kaur
11	S05-PP-11	Evaluation of predation potential and behavioural preferences in *Chrysoperla zastrowi* sillemi under intraspecific and interspecific interactions	Sahilpreet Kaur
12	S05-PP-12	Prospects and challenges of bio-pesticide use in Nepal	Mahesh H.M.
13	S05-PP-13	Sustainable management of *Tetranychus truncatus* using native *Photorhabdus luminescens* isolates	Athira G. Menon
14	S05-PP-14	Foraging activities of *Apis florea* Fab. and *Apis cerana indica* L. on Indian mustard.	Santoshkumar Amnaji More
15	S05-PP-15	*Cheletomimus berlesei* (Oudemans) (Acari: Cheyletidae): interesting life history, intriguing predatory behaviour and an indeterminate prey range	Sheela Nanjundaiah
16	S05-PP-16	Observations on immature stages of aphidophagous hoverflies (Diptera: Syrphidae) in India	Naveena, P.
17	S05-PP-17	Suppression of host egg development during *Trichogramma* parasitisation: Are polydnaviruses not the sole molecules involved?	Niranjana, P.
18	S05-PP-18	Integrated Pest Management (IPM) - an ecological approach for pest suppression in tomato	Raghavendra K.V.
19	S05-PP-19	Andrographolide-based biopesticide for aphid management in vegetable cowpea	Neethu G. Raj
20	S05-PP-20	Bee pollination in greenhouse and its efficacy in yield enhancement	Rakshitha, T.N.
21	S05-PP-21	Biology and morphometric of *Apis cerana* Himalaya Fabricius in Manipur conditions	Pranita Roy
22	S05-PP-22	Observation on larval and larval-pupal parasitoids of the serpentine leaf miner,	Shravya Savithri, K.

		Liriomyza sp. (Agromyzidae: Diptera) in tomato and common bean ecosystem	
23	S05-PP-23	Deciphering the gut bacterial diversity associated with *Apis cerana indica* from the Southern Regions of Karnataka	Jenifer Sheeba, J.
24	S05-PP-24	Exploration of entomopathogenic fungi as potential biocontrol of *Spodoptera litura* in soybean (*Glycine max* L. Merrill)	Hemant Swami
25	S05-PP-25	Scope of biological control in tasar sericulture	Bommireddy Thirupam Reddy
Time: 9:30–11:15		**Venue: Conclave Hall (Section B)**	
Session VI: Ecological Chemistry in Biological Control: Pheromone Synthesis, Sensors and Nanotechnology **Convenors** Dr Sujayanand, G.K. Dr B.S. Manjunatha			
Sl. No.	**Poster Number**	**Abstract Title**	**Presenting Author**
1	S06-PP-01	Biosynthesis and evaluation of Polygonum hydropipper based Ag-nanoparticles against *Callosobruchus chinensis* (Coleoptera: Bruchidae)	Chandana, C.R.
2	S06-PP-02	Chemical ecology of rice - *Meloidogyne graminicola* interaction: insights from Root Exudates and Metabolite Profiling	Suvasri Dutta
3	S06-PP-03	Electrophysiological and behavioural responses of tobacco cutworm, *Spodoptera litura* to sex pheromone and plant volatiles for its management	Subrata Goswami
4	S06-PP-04	Electrophysiological responses of rice leaf folder, *Cnaphalocrocis medinalis* to green leaf volatiles: implications for pest management	Lokesh, K.
5	S06-PP-05	Biofumigation : a safe way to manage red flour beetle in storage for ensuring food safety and biosecurity	Sushila Nadagouda
6	S06-PP-06	Understanding the role of surface volatile compounds in modulating *Maruca vitrata* (Crambidae: Lepidoptera) oviposition	Dhanyakumar Onkarappa

		behaviour on pigeon pea and its crop wild relatives	
7	S06-PP-07	Nano-enabled effective approaches for diamondback moth control in cabbage cultivation	Pradeep Kumar
8	S06-PP-08	Bisexual attractants for managing brinjal shoot and fruit borer (*Leucinodes orbonalis* Guenee) (Lepidoptera: Crambidae) using sex pheromones and plant volatiles	Saravanan, S.
9	S06-PP-09	Green synthesis of Ag doped ZnO nanoparticles and prospect for novel application to enhance shelf life of fruits and vegetables	Uday Sankar Senapati
10	S06-PP-10	A controlled release nano dispenser to deliver the sex pheromone for the management of *Plutella xylostella*	Vinay Kumar, T.M.
11	S06-PP-11	Synthesis and efficacy of chitos nanoparticles encapsulating *Metarhizium anisopliae* and *Beauveria bassiana* as biocontrol agents against the banana aphid *Pentalonia nigronervosa* Coquerel	Velavan Viswakethu
Time: 11:30–13:00		**Venue: Conclave Hall (Section A)**	
Session VII: Climate-Resilient Biocontrol Technologies **Convenors** Mr. K.T. Shivakumara Dr Ramya, N.			
Sl. No.	**Poster Number**	**Abstract title**	**Presenting Author**
1	S07-PP-01	Development of thermo-tolerant *Metarhizium anisopliae* strain and its virulence against brinjal mite *Tetranychus urticae*	Ashwini, E.
2	S07-PP-02	Resistance assessment of rice germplasm against brown planthopper, *Nilaparvata lugens*	Darshana Brahma
3	S07-PP-03	Synergistic effects of the sterile insect technique and entomopathogenic fungi for managing *Spodoptera litura* in cabbage under protected cultivation	Deepak

4	S07-PP-04	Climate-resilient and thermo-tolerant strain of *Metarhizium anisopliae* as potential mycopesticide for the management of insect pests in tropical climates	Deepthy, K.B.
5	S07-PP-05	Identification of potential strains of Actinobacteria for the management of lepidopteran and storage pest of pulses	Jagadeeswaran, R.
6	S07-PP-06	Effect of biopesticides on larval, pupal and adult duration of *Chrysoperla zastrowi* sillemi (Esben-Peterson) in subsequent generation	Moirangthem Monalisa Devi
7	S07-PP-07	Characterization and quantification of peptaibol produced by novel *Trichoderma* spp: harnessing the potential of these isolates to mitigate moisture stress through enhanced biochemical and physiological responses in black pepper	Praveena, R.
8	S07-PP-08	Efficacy of biorationals for the management of citrus thrips in acid lime	Ranjith Kumar, L.
9	S07-PP-09	Pathogenicity characteristics of the entomopathogenic fungi *Metarhizium anisopliae* to *Leucinodes orbonalis*	Rupa, K.
10	S07-PP-10	Population growth parameters and life history traits of native *Trichogramma* sp. parasitizing eggs of *Corcyra cephalonica* (Stainton) reared on various cereal substrates	Adarsh Sharma
11	S07-PP-11	Effect of low temperature storage on biology and demographic parameters of predatory mite *Neoseiulus longispinosus* (Evans)	Nikshubha Sharma
12	S07-PP-12	Development of an integrated management module for whitefly, *Bemisia tabaci* (Hemiptera: Aleyrodidae) infesting bitter gourd	Shinde, B.D.
13	S07-PP-13	Ecological characterisation of *Steinernema shori* (Nematoda: Steinernematidae), a warm-adapted entomopathogenic nematode from India	Sonia Soni
14	S07-PP-14	Enhancing photostability of *B. thuringiensis* strains: Phytopigments as an alternative to synthetic UV protectant	Sujayanand, G.K.

15	S07-PP-15	Characterization and biological control of emerging fungal diseases (pathogens) of vegetable crops	Tripathi, A.N.
Time: 11:30–13:00		**Venue: Conclave Hall (Section B)**	
Session X: Integration of Macrobials and Microbials in Organic Farming **Convenors** Dr Raghunandan, B.L. Dr C. Manjunatha			
Sl. No.	**Poster Number**	**Abstract title**	**Presenting Author**
1	S10-PP-01	Base-line susceptibility of cotton pink bollworm, *Pectinophora gossypiella* against *Bacillus thuringiensis* Cry1Fa1 toxin	Thawfeeq Ahamed
2	S10-PP-02	Cow dung-based formulations and organic amendments: shaping soil microflora and mesofauna dynamics for effective pest control in paddy	Bindushree, C,
3	S10-PP-03	Potential of phytoseiid mites (Acari: Phytoseiidae) as biocontrol agents in the biointensive integrated pest management of terrestrial arthropods	Shubhadeep Biswas
4	S10-PP-04	Bioprospecting microbiocidal and insecticidal activities of symbiotic bacterial extract, *Xenorhabdus indica* identified from *Steinernema pakistanense* isolated from the semi-arid regions of Rajasthan	Parul Chauhan
5	S10-PP-05	Investigation of biocontrol mechanism of different *Trichoderma* sp. against fungal phytopathogens	Samiksha Gupta
6	S10-PP-06	Assessing natural mortality factors of *Helicoverpa armigera* Hubner (Lepidoptera: Noctuidae) in menthol mint (*Mentha arvensis*) in India	Santosh C. Kedar
7	S10-PP-07	Entomopathogenic endophytes as a sustainable tool in organic farming for the management of sucking pests of capsicum	Logeswaran, K.
8	S10-PP-08	Production of *Bacillus thuringiensis* biopesticide on industrial by-products and its	Mahesh, P.

		evaluation against white grub *Holotrichia serrata* in sugarcane	
9	S10-PP-09	Evaluation of the different plant protection modules against *Spodoptera litura* in soybean [Glycine max (L.) Merrill]	Manoj Kumar Mahla
10	S10-PP-10	Deploying *Typhlodromus* (*Anthoseius*) *transvaalensis* against *Polyphagotarsonemus latus* and *Pseudodendrothrips darci* in mulberry	Rupanagudi Maruthi Mehanth
11	S10-PP-11	Toxicity of indigenous *Bacillus thuringiensis* (Berliner) isolates against *Spodoptera litura* (Fabricius) (Lepidoptera : Noctuidae)	Vasanta Mutalikdesai
12	S10-PP-12	Insecticidal potential of native actinobacterial extracts against lepidopteran pests: a sustainable approach for eco-friendly pest management	Naveen, V.
13	S10-PP-13	Indigenous entomopathogenic nematodes (Heterorhabditidae and Steinernematidae): efficient biological control agents against the cutworm, *Agrotis ipsilon* (Hufnagel) (Lepidoptera: Noctuidae), in potato cultivation	Aarthi Nekkanti
14	S10-PP-14	Showcasing the effectiveness of *Metarhizium anisopliae* for the sustainable management of mango hoppers through large-scale validation	Raghunandan, B.L.
15	S10-PP-15	Biocontrol potential of *Trichoderma* spp. and *Bacillus* spp. isolated from tomato rhizosphere against important soil borne fungal plant pathogens	Rajeshwari, R.
16	S10-PP-16	White grubs (*Holotrichia serrata*) gut microflora in organic waste degradation	Sampada, N.
17	S10-PP-17	Investigation on effect of *Metarhizium anisopliae* on mirid bug *Dortus primarius,* a predator of *Phthorimaea absoluta* in tomato	Sundaravalli, K.
18	S10-PP-18	Development of microbial consortium for the management of fall armyworm and stalk rot of maize	Vaishnavi, P.

Time:14.00–17.00		Venue: Conclave Hall (Section A)	
Session VIII: Genomics in Biological Control of Crop Pests and Diseases **Convenors** Dr G. Mahendiran Dr K.J. David			
Sl. No.	**Poster No.**	**Abstract title**	**Presenting Author**
1.	S08-PP-01	Genomic insights into an indigenous *Bacillus thuringiensis* strain with antifungal activity against *Sclerotium rolfsii*	Aditya, K.
2.	S08-PP-02	Genomic basis of host selection in by *Goniozus nephantidis* (Muesebeck) (Hymenoptera: Bethylidae)	Aneesha, P.J.
3.	S08-PP-03	Identification and expression analysis of potential effector genes in the cotton mealybug (*Phenacoccus solenopsis*) to understand pest-plant interactions	Anand Bahadur
4.	S08-PP-04	Impact of CRISPR/Cas9 genome editing on gossypol distribution in cotton: enhanced seeds for human consumption while retaining insecticidal properties	Punam Chakraborty
5.	S08-PP-05	Insights into the core RNAi machinery genes in Indian green lacewing predator, *Chrysoperla zastrowi* sillemi	Chinnu, V.S.
6.	S08-PP-06	Decoding the genetic landscape of *Cnaphalocrocis medinalis*: evidence from ITS2 gene studies	Soumya Shephalika Dash
7.	S08-PP-07	Metabolomic profiling and genome-wide analysis of *Bacillus subtilis* NBAIR-BSWG1 reveals cyclic lipopeptides as key antagonists	Divya, C.
8.	S08-PP-08	Genome editing of detoxification gene inventories in insects using CRISPR: A systematic review and meta-analysis	Vinithashri Gautam
9.	S08-PP-09	Unveiling epigenetic dynamics in insect-pathogen interactions: implications for pest control	Ayushi Gupta
10.	S08-PP-10	Introgression of susceptible alleles: a novel strategy towards *Bt* resistance management in cotton pink bollworm, *Pectinophora gossypiella*	Suresh R. Jambagi

11.	S08-PP-11	Genomic characterization of entomopathogenic fungus associated with natural mycosis of sugarcane leaf hopper	Janaki Prasad, A.
12.	S08-PP-12	Insights into transcriptional changes in male accessory glands of *Spodoptera litura* (Fabricius) (Lepidoptera: Noctuidae) under heat stress	Hemant Kumar
13.	S08-PP-13	Molecular characterization of biocontrol potential and plant growth promoting *Bacillus thuringiensis* strains isolated from the Western Ghats of India	Lavanya, S.M.
14.	S08-PP-14	Gene expression dynamics in rice challenged with *Magnaporthe oryzae* and biocontrol agents	Sucharita Mohapatra
15.	S08-PP-15	Decoding the halloween genes: RNAi-based functional analysis of shade and shadow in *Maconellicoccus hirsutus* (Green)	Nikita Negi
16.	S08-PP-16	Identification and expression analysis of cytochrome P450 Genes in *Phenacoccus manihoti* Matile-Ferrero (Hemiptera: Pseudococcidae)	Nived, K.M.
17.	S08-PP-17	Deciphering limb regeneration potential in ladybird beetles (a potent biocontrol against aphids)	Pandita, S.
18.	S08-PP-18	Molecular Phylogenetics of bacterial endosymbiont Wolbachia associated with *Tuta absoluta* populations	Arpit Prashar
19.	S08-PP-19	Unveiling the genomic landscape of NBAIR BSWG1, a potential *Bacillus subtilis* strain	Raksha, S.
20.	S08-PP-20	Effect of lambda cyhalothrin on redox potential of *Trichogramma chilonis*-molecular basis of combat assessment	Roopa, K.
21.	S08-PP-21	Multilocus sequence typing and development of a species-specific PCR marker for specific identification of *Lysinibacillus sphaericus*	Ruqiya, S.
22.	S08-PP-22	Micro RNAs (miRNAs): prospective targets for insect pest management	Sabitha, C.
23.	S08-PP-23	The long-term effects of population bottleneck during biocontrol introduction: from a population genomics perspective	Ranjit Kumar Sahoo

24.	S08-PP-24	Bacterial diversity across developmental stages of the litchi stink bug (*Tessaratoma javanica*): insights from 16S rRNA Sequencing	Ipsita Samal
25.	S08-PP-25	Unveiling pheromone perception: Molecular insights into pheromone reception in *Leucinodes orbonalis*	Selva Babu Selvamani
26.	S08-PP-26	Detection and molecular phylogeny of soft scale insect, *Megapulvinaria maxima* (Green, 1904) (Hemiptera: Coccidae): A major pest of Madhunashini	Shivakumara, K.T.
27.	S08-PP-27	Identification of suitable reference genes for normalizing gene expression of qPCR studies in the peach fruit fly (*Bactrocera zonata*)	Suman, T.C.
28.	S08-PP-28	De novo transcriptome and gene expression analysis of Cassava mealybug *Phenacoccus manihoti* Matile-Ferrero (Hemiptera: Pseudococcidae) across two developmental stages	Sunny Rao, A.
29.	S08-PP-29	Non-destructive DNA extraction for whitefly and their natural enemies	Vasundhara, J.
30.	S08-PP-30	Developmental expression study and silencing of nuclear receptor E75A in Brinjal shoot and fruit borer, *Leucinodes orbonalis* Guenee	Veeramanikanta Reddy N.
31.	S08-PP-31	Designing and validation of species-specific primers in stored grain pests	Venugopala, K.M.
32.	S08-PP-32	Identification and molecular validation of cytochrome P450 genes involved in insecticide resistance in *Maruca vitrata* (Lepidoptera: Crambidae) and scope for RNAi-mediated management	Vijayakumari, N.
33.	S08-PP-33	Enhancing biotic resistance and shelf life of tomato through ethylene biosynthesis downregulation using CRISPR/Cas9 gene editing	Yadav Rajkumar, S.

Time:14.00–16.30	Venue: Conclave Hall (Section B)		
Session II: Biodiversity, Biosecurity and Biosystematics of Crop Pests and Natural Enemies **Convenors** Dr Omprakash Navik Dr Rajashekhar Mandla			
Sl No	**Poster Number**	**Abstract title**	**Presenting Author**
1	S02-PP-01	*Gaeolaelaps* (Acari: Laelapidae) - A group of predatory mites as successful biocontrol agents	Pritha Bandyopadhyay
2	S02-PP-02	Occurrence of white grubs (Coleoptera: Scarabaeidae) in vicinity of pattambi rice fields of Palakkad, Kerala	Judith Corolin Correya
3	S02-PP-03	Why are we ignoring shrubs? Acraea issoria (Hubner) – Yellow coster defoliator of *Debregeasia hypoleuca* (Steud.) in the Western Himalaya	Romila Devi
4	S02-PP-04	Diversity and emerging threats of eriophyoid mites to food and biosecurity in Karnataka	P. Dyamanagouda
5	S02-PP-05	Diversity and species richness pattern of predatory wasps in tasar ecosystem	H.S. Gadad
6	S02-PP-06	Soft scale (Hemiptera: Coccidae) fauna of Kerala and their associated natural enemies	Desavath Gouthami
7	S02-PP-07	First report of non-bioluminescent Cave dwelling Keroplatidae, *Chetoneura* sp. from Meghalaya Northeast India	Hans Austin K.H.
8	S02-PP-08	Assessing the geographic distribution of Ipomoea and its association with insect diversity in Southern India	Harish M.N.
9	S02-PP-09	Record of Cheyletidae mites from the Eastern dry zone of Karnataka	Renuka Hiremath
10	S02-PP-10	Dynamics and occurrence of predominant white grub species (Coleoptera: Scarabaeidae) across the country	Jayashree, S.
11	S02-PP-11	Diversity of *Typhlodromus* (Anthoseius) from Eastern Dry Zone of Karnataka	Anna Jose
12	S02-PP-12	Annual fluctuations in the populations of spiders, chrysopids and lady bird beetles in mango and cashew orchard	Sameer Narendra Kale

13	S02-PP-13	Shedding light on the importance of mites of Genus *Cosmolaelaps* (Acari: Laelapidae) as biocontrol agents	Payel Kar
14	S02-PP-14	Morphological and molecular identification of Earwigs (Dermaptera) of South India with insights into predatory potential against fall armyworm, *Spodoptera frugiperda*	Karthik C.M.
15	S02-PP-15	Allure of the overlooked: First report of Ormyrus sp., parasitoid of Cecidomyiid gall midge on *Machillus bombycina* from Meghalaya	Snata kaushik
16	S02-PP-16	Postabdominal structures and molecular evidence reveal an undescribed species of *Rhochmopterum speiser* (Diptera: Tephritidae: Tephritinae: Schistopterini) from India	Hatwar Nikhil Khemrajji
17	S02-PP-17	Diversity of foliage feeders in Groundnut, *Arachis hypogaea* L. in dierent parts of Bikaner District of Rajasthan (India)	Keshav Mehra
18	S02-PP-18	Taxonomy of two predatory stink bugs: Natural enemies of certain lepidopteran and coleopteran pests	Amartya Pal
19	S02-PP-19	Morpho-molecular characterization of field collected trichogrammatids and their parasitisation potential	Pradeep, S.
20	S02-PP-20	First report of *Thrips subnudula* Karny (Thysanoptera: Thripidae) on Chilli (Capsicum annuum L.) in India	Praveenkumar, C.
21	S02-PP-21	Diversity of natural enemy complex associated with major insect pests in pulse crop ecosystems of Gangetic basin	Sabyasachi Ray
22	S02-PP-22	First documentation of larval parasitoid *Drino* sp. (Diptera: Tachinidae) on fall armyworm (FAW), *Spodoptera frugiperda* (J.E. Smith) (Lepidoptera: Noctuidae) in Southern Rajasthan	Beerendra Singh
23	S02-PP-23	Taxonomic studies on fruit flies of tribe Dacini (Diptera: Tephritidae: Dacinae) in India	Abhishek Venkateshaiah

Time:17.00–17.30		Venue: Conclave Hall (Section A)	
Session XI: Information and Communication Technology in Biological Control: Artificial Intelligence, Internet of Things, Mobile Apps, drones and robotics **Convenor** Dr Raghavendra K.V.			
Sl. No.	**Poster Number**	**Abstract title**	**Presenting Author**
1	S11-PP-01	Feeding the Future: Startups and Incubation in the World of Insect Science	Swetha Kumari Koduru
2	S11-PP-02	Artificial intelligence based large language model for mobile phone alerts to enhance Biocontrol methods	Zinnith VMJ
Time:16.30–17.30		**Venue: Conclave Hall (Section B)**	
Session IV: Invasive Alien Pests, Diseases and Weeds: Biocontrol Interventions **Convenors** Dr S. Salini Dr Keerthi M.C.			
Sl No	**Poster Number**	**Abstract title**	**Presenting Author**
1	S04-PP-01	First record of *Brithys crini* as Crinum Lily borer from North eastern Region of India	Ajaykumara K.M.
2	S04-PP-02	*Cladosporium cladosporioides*: a new fungal bioagent of southeast Asian thrips, *Thrips parvispinus*	Keerthi M.C.
3	S04-PP-03	Evaluation of sustainable IPM approaches for *Phthorimaea absoluta* with economic analysis in semi-arid tomato regions in India	Rajashekhar Mandla
4	S04-PP-04	Maize yield sensitivity and determinants of IPM adoption against invasive fall armyworm in Karnataka, India	Prakash K.N.
5	S04-PP-05	Eco friendly management of fall armyworm *Spodoptera frugiperda* (J.E. Smith) and cost benefits in maize crop ecosystem in Telangana	Ramakrishna Babu, A.
6	S04-PP-06	Decrypting the reproductive behaviour in an invasive alien pest *Spodoptera frugiperda*	Ramya, N.
7	S04-PP-07	Survey, isolation and characterization of entomopathogenic fungi associated with the mealybug complex in cassava	Smitha Revi
8	S04-PP-08	Assessment of IPM strategies for south east Asian thrips in chilli at Nagarkurnool district	Shaila
9	S04-PP-09	Bioefficacy of different biopesticides against fall armyworm, *Spodoptera frugiperda* (J. E. Smith) on Maize	Priti Kondiba Waykule
10	S04-PP-10	Invasive whiteflies and their secret saviours in India on custard apple	Kavya Yadav, G.A.