



INTERNATIONAL SEMINAR ON SPICES, KAU- 2024 (ISSK2024)

(Spices: Innovative and Green Technologies for Sustainability)

Venue: College of Agriculture, Vellayani,

Thiruvananthapuram, Kerala, India

5 JUNE 2024

SESSION II: SPICES: NEW VISTAS IN CROP PRODUCTION AND PROTECTION

Sub theme: Sustainable Agricultural Practices

Invited speakers

Sl. No	Name	Designation and Institution	Time	Venue
1	Dr. Wahyudi David	Associate Professor at Universities Bakrie, Jakarta, Indonesia	10.00 am - 10.30 am	Hall 1

Oral Presentations

Sl. No	Name	Topic	Time	Venue
1	P. C. Mali	Black pepper based mixed cropping system for sustainable productivity and food security	10.40 am - 10.50 am	Hall 1
2	Beena V. I.	Establishing optimal nutrient level of magnesium and boron in black pepper for optimization of productivity in Western Ghats of Kerala	10.50 am - 11.00 am	Hall 1
3	S. AnuRajan	Pink pigmented facultative methylotrophs promote plant growth and mitigate drought stress in black pepper (<i>Piper nigrum</i> L.) plantlets	11.00 am - 11.10 am	Hall 1
4	Chitra R.	Effect of organic manure on growth, herbage yield and quality in Fenugreek (<i>Trigonella foenum graecum</i>)	11.10 am - 11.20 am	Hall 1
5	Rajender Kumar	Productivity of fennel (<i>Foeniculum vulgare</i> Mill) genotypes in response to varying sowing time and row spacing under Punjab conditions	11.20 am - 11.30 am	Hall 1
6	Nimisha M.	Investigation of essential micronutrient application on growth and yield of small cardamom [<i>Elettaria cardamomum</i> (L.) Maton]	11.30 am - 11.40 am	Hall 1
7	V. Murali	On-farm assessment of improved production technologies of seed spices ajwain (<i>Trachyspermum ammi</i> L.) and coriander (<i>Coriandrum sativum</i>) in Adilabad district of Telangana	11.40 am - 11.50am	Hall 1

8	K. Venkatesan	Unlocking the potential: impact of microbial consortia on growth, yield and curcumin content in turmeric cultivation	11.50 am – 12.00 pm	Hall 1
Poster evaluation S2T1: 2.00 pm- 4.30 pm				
Participants of poster presentation should be present from 10.00am to 5pm.				

5 JUNE 2024

SESSION II: SPICES: NEW VISTAS IN CROP PRODUCTION AND PROTECTION

Sub theme: Innovative production systems

Invited speakers

Sl. No	Name	Designation and Institution	Time	Venue
1	Dr. Santhosh J. Eapen	Head (Rtd.), Division of Crop Protection, ICAR-IISR	12.00 noon - 12.30 pm	Hall 1

Oral Presentations

Sl.No	Name	Topic	Time	Venue
1	Ravi C. S.	Effect of liquid nutrition and pinching on orthotropic shoot production in black pepper (<i>Piper nigrum</i> L.) mother block under polyhouse	12.40 pm - 12.50 pm	Hall 1
2	K. Ramah	Crop geometry and dripper spacing in turmeric (<i>Curcuma longa</i> L.) raised with bud seedlings	12.50 pm - 1.00 pm	Hall 1
3	Shibana S. N.	Growth, yield and secondary metabolite elicitation in response to chitosan application in turmeric (<i>Curcuma longa</i> L.)	2.00 pm - 2.10 pm	Hall 1
4	Manoj Oommen	Empowering farmers with site-specific fertilizer recommendations: The case of Udumbanchola Taluk, Idukki, utilizing CardSApp	2.10 pm - 2.20 pm	Hall 1
5	Shankha Koley	Agrivoltaics system: Sustainable approach for agriculture and energy stability	2.20 pm - 2.30 pm	Hall 1
6	M. Rajeshwari	Influence of crop geometry and plant nutrition on growth and yield of fennel (<i>Foeniculum vulgare</i> Mill.) under northern dry zone of Karnataka	2.30 pm - 2.40 pm	Hall 1
7	D. Manjusha	Effect of chitosan and salicylic acid as metabolite elicitors on yield attributes in high yielding varieties of turmeric (<i>Curcuma longa</i> L.) at high altitude zone of Andhra Pradesh	2.40 pm - 2.50 pm	Hall 1

Poster evaluation S2T2: 3.00 pm- 4.30 pm

Participants of poster presentation should be present from 10.00am to 5pm.

5 JUNE 2024

SESSION II: SPICES: NEW VISTAS IN CROP PRODUCTION AND PROTECTION

Sub theme: Novel Plant Health Management

Invited speakers

Sl. No	Name	Designation and Institution	Time	Venue
1	Dr. Ishwara Bhat A.	Principal Scientist, Head, Division of Crop Protection, ICAR-IISR, Kozhikode	11.00am - 11.30am	Hall 2
2	Dr. George Thomas	Scientist G & Dean (Research Administration) Rajiv Gandhi Centre for Biotechnology	11.30 am -12.00 noon	Hall 2

Oral Presentations

Sl No.	Name	Topic	Time	Venue
1.	G. Rajesha	Characterization of bacterial endophytes of king chilli for biocontrol potential and plant growth promotion	12.00 pm-12.10pm	Hall 2
2.	Nazir Basha Shaik	Fungicidal potential of allspice bio actives against phyto pathogens causing soft rot in ginger (<i>Zingiber officinale</i> Roscoe)	12.10 pm-12.20 pm	Hall 2
3.	Amruth Hari / Nisha M. S.	Synergistic interaction between <i>Meloidogyne incognita</i> and <i>Fusarium solani</i> in black pepper, <i>Piper nigrum</i> L.	12.20 pm-12.30 pm	Hall 2
4.	Nandana M. S.	Bioformulation strategies to combat rhizome rot in ginger plants (<i>Zingiber officinale</i>) and stored ginger seeds.	12.30 pm - 12.40 pm	Hall 2
5.	Sherin Beula R. J.	Histopathological and biochemical variations in resistant and susceptible black pepper cultivars infected with <i>Meloidogyne incognita</i>	12.40 pm- 12.50 pm	Hall 2
6.	Hridya Shaji	Green synthesis, characterization and antiviral potential of copper oxide nanoparticles derived from <i>Pimenta dioica</i> .	12.50 pm -1.00 pm	Hall 2
7.	Alby John	Gamma irradiation induced genetic variation in <i>Trichoderma</i> spp. for management of foot rot of black pepper.	2.00 pm- 2.10pm	Hall 2
8.	M. Greeshma	Development of lateral flow immunoassay for the rapid detection of cucumber mosaic virus infecting black pepper	2.10 pm- 2.20 pm	Hall 2
9.	S. Jaya Prabhavathi	Fascinating add on crops in chilli plantations with ecological pest management attribute	2.20 pm- 2.30 pm	Hall 2

10.	Bongrinti Rongpipi	Effect of various priming treatment on morphological, yield and qualitative properties of ginger (<i>Zingiber officinale</i> Rosc.) grown in Nagaland	2.30 pm- 2.40 pm	Hall 2
11.	Swathi G. S.	Silver nanoparticles green synthesized using leaf extract of <i>Piper colubrinum</i> and <i>Piper nigrum</i> for the management of foot rot in black pepper (<i>Piper nigrum</i> L.)	2.40 pm- 2.50 pm	Hall 2

Poster evaluation S2T3: 9.30am to 11.00 am

Participants of poster presentation should be present from 9:30 am to 5 pm.

6 JUNE 2024

SESSION I: SPICES: FRONTIERS IN CROP IMPROVEMENT

Sub theme: Genetic Resources and breeding

Invited speakers

Sl. No	Name	Designation and Institution	Time	Venue
1	Dr. Ravi Maruthachalam	Associate Professor (Biology), IISER Thiruvananthapuram	9.30 am- 10.00 am	Hall 1
2	Dr. Birendra Kumar	Chief Scientist and Nodal Officer, Seed Quality Lab on MAPs, Genetics and Plant Breeding Division, CSIR- CIMAP, Lucknow	10.00 am-10.30 am	Hall 1

Oral Presentations

Sl.No	Name	Topic	Time	Venue
1	Silpa S. G.	<i>In vivo</i> induction and identification of heteroploids in ginger	10.40 am-10.50 am	Hall 1
2	T.M. Muhammed Musthafa	Phenotypic characterization of cinnamon (<i>Cinnamomum verum</i> Presl.) In the humid tropics of Kerala: Utilizing derived morphological characters and codes	10.50 am- 11.00 am	Hall 1
3	Radhika Ramya. A	Identification and morphological characterization of novel sources of resistance against twig blight (<i>Choanephora cucurbitarum</i>) of chilli	11.00 am- 11.10 am	Hall 1
4	Akshatha P.	Morphological and molecular profiling of diverse variety of fennel (<i>Foeniculum vulgare</i> Mill.)	11.10 am – 11.20 am	Hall 1
5	Dr. Govind M. G	Significance of the validation of wild relatives of nutmeg	11.20 am- 11.30 am	Hall 1
6	Reshma P.	Genetic diversity assessment of black pepper (<i>Piper nigrum</i> L.) cultivars of Western Ghats	11.30 am -11.40am	Hall 1

7	Resmi Paul	Variability analysis in genotypes of black pepper (<i>Piper nigrum</i> L.)	11.40 am- 11.50 am	Hall 1
8	Renjan B	Evaluation of genotypes and spacing of mango ginger (<i>Curcuma amada</i> Roxb.) on growth and yield attributes under high ranges of Wayanad district	11.50 am- 12.00 pm	Hall 1
9	Resmi J.	Identification of elite genotypes suitable for Onattukara sandy tract of Kerala through morpho-biochemical characterization of turmeric (<i>Curcuma longa</i> L.)	12.00 pm - 12.10 pm	Hall 1
10	Shazna A.	Screening of black pepper genotypes for drought and flood tolerance	12.10 pm -12.20pm	Hall 1
11	Reddappa J. B.	Floral phenology and standardization of hand pollination of clove (<i>Syzygium aromaticum</i> (L.) Merr. & Perry)	12.20 pm - 12.30 pm	Hall 1
12	Suraj W	Estimation of genetic potential of parents and crosses for yield and fruit quality traits in chilli (<i>Capsicum annuum</i> L.)	12.30pm - 12.40pm	Hall 1

Poster evaluation of S1T1: 2.00 pm to 4.00 pm

Participants of poster presentation should be present from 10.00am to 5pm.

6 JUNE 2024

SESSION I: SPICES: FRONTIERS IN CROP IMPROVEMENT

Sub theme: Biotechnological and biochemical interventions

Invited speakers

Sl. No	Name	Designation and Institution	Time	Venue
1	Dr. D. Prasath	Project Co-ordinator, AICRP on Spices, ICAR-IISR	2.00 pm - 2.30 pm	Hall 1
2	Dr. K. K. Sabu	Principal Scientist, KSCSTE-JNTBGRI	2.30 pm - 3.00 pm	Hall 1

Oral Presentations

Sl.No	Name	Topic	Time	Venue
1	Bhaganna Haralayya	Effect of macro-nutrients on <i>In vitro</i> androgenesis for production of double haploids (Dhs) in chilli (<i>Capsicum annuum</i> L.) cv. Byadgi Dabbi.	3.00 pm - 3.10 pm	Hall 1
2	Suraj W.	Characterization of chilli germplasm using fruit quality traits and pungency specific SSR markers	3.10 pm - 3.20 pm	Hall 1

3	Parashuram M.	Biochemical basis of resistance in cardamom against shoot and capsule borer, <i>Conogethes punctiferalis</i> (Guenee)	3.20 pm - 3.30 pm	Hall 1
4	Sowmya M	Morphological, biochemical, histological and molecular interventions of coriander genotypes against <i>fusarium</i> wilt	3.30 pm - 3.40 pm	Hall 1
5	Sinoy Johnson	Metagenomic insights into microbial communities in soft rot infected and non-infected ginger rhizospheres	3.40 pm - 3.50 pm	Hall 1
6	Neethu R. S.	Unveiling the potential of gibberellin-regulated starch biosynthesis in enhancing <i>in vitro</i> cormlet production in saffron (<i>Crocus sativus</i> L.)	3.50 pm - 4.00 pm	Hall 1
7	N. S. Shruthy	Mirnaome analysis and experimental validation revealed the role of microrna during piperine biosynthesis in black pepper	4.00pm - 4.10 pm	Hall 1
8	Smitha Bhasi	Unveiling the potential of auxin biosynthesis, transport and metabolism in yield improvement of black pepper	4.10 pm - 4.20 pm	Hall 1
9	Reshma P.	Genomic variation in self pollinated clove (<i>Syzygium aromaticum</i> (L.) Merr. & Perry) accessions from Western Ghats	4.20 pm - 4.30 pm	Hall 1
10	K. Abhijith	Chitosan-induced growth enhancement, piperine production, and relative expression of piperine synthase gene in long pepper (<i>Piper longum</i> L.)	4.30 pm - 4.40 pm	Hall 1

Poster evaluation of S1T2: 10.00 am to 1.00 pm

Participants of poster presentation should be present from 10.00am to 5pm.

6 June 2024

SESSION III: SPICES FOR AND BEYOND FLAVOURS

Sub theme: Postharvest management

Invited speakers

Sl. No	Name	Designation and Institution	Time	Venue
1	Dr. Manish Pandey	Director and Head of Project Analysis and Documentation Division, Quality Council of India	9.30 am - 10.00 am	Hall 2
2	Dr. Achini Anuradha Wijeweeraa	Deputy Director (Research), Cinnamon Development Department, National Cinnamon Research and Training Center	10.00 am - 10.30 am	Hall 2

Oral Presentations

Sl No.	Name	Topic	Time	Venue
1.	Sandhya Y. S.	Physicochemical variations in different phenophases of kokum fruit development according to the extended BBCH scale	10.40 am -10.50 am	Hall 2
2.	Jesna N. B	Mycoflora associated with black pepper in storage	10.50 am - 11.00 am	Hall 2
3.	Lekshmi G. P. R	Biochemical profiling of malabar tamarind aril (<i>Garcinia gummi-gutta</i>) and exploring the potential of byproduct utilization	11.00 am - 11.10 am	Hall 2
4.	Sagar D Pujari	Study on process technology for green chilli powder	11.10 am - 11.20 am	Hall 2

Poster evaluation S3T1: 11.00 am to 1.00 pm

Participants of poster presentation should be present from 10:00 am to 5 pm.

6 June 2024

SESSION III: SPICES FOR AND BEYOND FLAVOURS

Sub theme: Therapeutic, nutraceutical, perfumery and cosmetics applications

Invited speakers

Sl. No	Name	Designation and Institution	Time	Venue
1	Dr. Benny Antony	Joint Managing Director & Co-Founder of Arjuna Natural Private Limited, Aluva	12.00 pm - 12.30 pm	Hall 2
2	Prof. (Dr.) R. Nagarajan	Department of Chemical Engineering, Indian Institute of Technology, Chennai	12.30 pm - 1.00 pm	Hall 2

Oral Presentations

Sl No	Name	Topic	Time	Venue
1.	Sandhya S	Phytochemical analysis, therapeutic and Molecular docking studies for the compounds of Wild type and Senkampu variants of curry leaves targeting HER2 Kinase domain a potential Gastric cancer receptor	2.00 pm - 2.10 pm	Hall 2
2.	Aparna G. S	<i>Garcinia gummi-gutta</i> : Unveiling bioactive potency and formulating nutraceutical innovations	2.10 pm - 2.20 pm	Hall 2
3.	Dr. Gopika S	Anti fungal activity of turmeric (<i>Curcuma longa</i> Linn.) – An insilico study	2.20 pm - 2.30 pm	Hall 2
4.	Athira Babu	Effect of long pepper (<i>Piper longum</i> linn.) in Eosinophilia	2.30 pm - 2.40pm	Hall 2
5.	Dr. Bhavyashree	Effect of turmeric (<i>Curcuma longa</i> L) and long pepper (<i>Piper longum</i> L) in rhinitis	2.40 pm - 2.50pm	Hall 2
6.	Dr. Arya S	Thrombolytic effect of black pepper (<i>Piper nigrum</i> Linn.)	2.50 pm - 3.00 pm	Hall 2
7.	Dr. Nibisha C P	Nephroprotective effect of combination of <i>Curcuma longa</i> Linn & <i>Phyllanthus emblica</i> Linn in albino rats	3.00 pm - 3.10 pm	Hall 2
8.	Dr. Susmitha	Thrombolytic effect of black pepper (<i>Piper nigrum</i> Linn.) – an <i>in vitro</i> study	3.10 pm - 3.20 pm	Hall 2
9.	Ravi Y	Anticancer potential of Thymoquinone and seed extract derived from <i>Nigella sativa</i> L: A cytotoxicity approach	3.20 pm - 3.30 pm	Hall 2

Poster evaluation S3T3: 10.00am to 12.00pm

Participants of poster presentation should be present from 10:00 am to 5 pm.

6 June 2024

SESSION III: SPICES FOR AND BEYOND FLAVOURS
Sub theme: Socioeconomics and Value chain dynamics

Invited speakers

Sl. No	Name	Designation and Institution	Time	Venue
1	Hoang Thi Lien	Chairperson Vietnam Pepper and Spice Association	3.30 pm – 4.00 pm	Hall 2

Oral Presentations

Sl No.	Name	Topic	Time	Venue
1.	Nirmaladevi M	Determinants of adaptation intention of cardamom growers towards climate change	4.00 pm - 4.10 pm	Hall 2
2.	Ansar Ali M. A	Role of saffron promotion export development agency (speda), spices board India for promotion and export aspects of kashmir saffron and doubling the saffron farmers income in J&K (union territory-ut)	4.10 pm- 4.20 pm	Hall 2
3.	Lijo Thomas	Recent trends in export rejections of spices from India: reasons, responses and regulatory challenges	4.20 pm- 4.30 pm	Hall 2
4.	Subin Reji	Economics and efficiency analyses of ginger production in Kerala	4.30 pm – 4.40 pm	Hall 2
5.	Yaman C	Primary trader preferences for participating in HVMS in black pepper- a choice analysis	4.40 pm- 4.50 pm	Hall 2
6.	Smija P K	Smallholder farmer's preferences for sustained participation in high-value markets for black pepper in Kerala, India	4.50 pm – 5.00 pm	Hall 2
7.	Akhil Reddy M	Value chain analysis of chilli in Telangana and Andhra Pradesh	5.00 pm- 5.10 pm	Hall 2
8.	Aswathy Vijayan	Price Forecasting in black pepper using time series and machine learning models	5.10 pm- 5.20pm	Hall 2
9.	Sachu sara sabu	Spice patnerships: Assessing the implications of India's Regional Trade Agreements on black pepper trade	5.20 pm- 5.30 pm	Hall 2
10.	Blesson B	Integrating AI for Enhancing Black Pepper Production: The Chatbot Approach	5.30 pm to 5.40pm	Hall 2

Poster evaluation S3T2: 10.00am to 1.00pm

Participants of poster presentation should be present from 10:00 am to 5 pm.