

**Indian Institute of Spices Research
Kozhikode, Kerala.
Proceedings of Study Circle, 1st December 2015**

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9th December 2015

The Study Circle Meeting (November month) was held on 1st December 2015 at 2.30 PM in the Silver Jubilee Hall under the chairmanship of Dr. M. Anandaraj, Director. All the Study Circle members attended the meeting.

After the introduction of new member to the house the following items were discussed, Grammarly@edu (Writing Tool & Plagiarism Checker) – Mr. Ranjith N, Senior Manager-Academic-Kerala, Bridge people technologies made a presentation on the usage of the software.

Contribution No 847 : Study on decadal changes of area and productivity of important crops of Kerala –GIS appraisal K. Jayarajan, Utpala Parthasarathy, V.Srinivasan, S.Hamza and R.Dinesh. The abstract was approved for presenting in SYMSAC at TNAU Coimbatore during 16-18 December 2015. Chairman insisted the authors to give much emphasis on Spices and not on other crops.

Contribution No 848: Induction of variability in ginger through induced mutation for disease resistance D Prasath, R Suseela Bhai and R Ramakrishna Nair. The abstract was approved for presenting in SYMSAC at TNAU Coimbatore during 16-18 December 2015.

Contribution No 849: Resistance genes in *Piper colubinum*: *In silico* survey from transcriptome and expression study during interaction with the black pepper pathogen *Phytophthora capsici*.- Neema malik, Johnson K George and Anandaraj M. The abstract was approved National Conference on Recent Advances in Biomedical Sciences and Biotechnology, Cochin.

Contribution No 850: Molecular characterization of a novel type III polyketide synthase, CLPKS11 showing positive correlation with curcumin content- Deepa K, Sheeja TE, Rosana OB and B. Sasikumar. The paper was approved.

Contribution No 851: Farmers' Varieties in Black Pepper (*Piper nigrum* L.) and Small Cardamom (*Elettaria cardamomum* Maton) short listed for PPV&FRA Registration- Hemesh K , Johnson K George , Saji K.V , Sasikumar B , Prasath D and Pradip Kumar K. The abstract was approved for presenting in SYMSAC at TNAU Coimbatore during 16-18 December 2015. Chairman insisted the authors to include the details on projected dry recovery, population/hac and the yield comparison with released varieties. The present slides on yield of identified farmer's varieties without data need to be removed from the presentation at SYMSAC, as it is only projection by farmer.

Contribution No 852: In silico studies on resistance (R) genes from the transcriptome of *Curcuma amada* and *Zingiber officinale* after challenge inoculation with *Ralstonia solanacearum*.- Karthika R, Lini TV, Rosana OB, Prasath D, Anandaraj M. The abstract was approved for presenting in SYMSAC at TNAU Coimbatore during 16-18 December 2015.

Contribution No 853: Comparison of different management systems on soil nutrient availability, yield, quality and economics of ginger cultivation - Srinivasan V, Thankamani, CK, R Dinesh, Hamza S, Sangeeth KP, Nileena Chandran, Ansha, O, John Zachariah T and Kandianan . The abstract was approved for presenting in SYMSAC at TNAU Coimbatore during 16-18 December 2015.

Contribution No 854: Anti-oxidant properties of natural compounds: A QSAR model using semiempirical descriptors Neethu Krishna , Arun Raj, Ravi Kumar Muttineni, Santhosh J Eapen, N.K Leela and T. John Zachariah. The paper was approved.

Contribution No 855: Cinnamon and turmeric dominate in antioxidant potential among four major spices-study using sequential extracts Saranya Balu, Sulfikarali Thondikkal, Chindhu. S, Muneeb.A.M, Leela, N.K and John Zachariah. T. The paper was approved.

Contribution No 856: Supercritical Fluid Extraction (SFE) of Turmeric (*Curcuma longa* L.) showed different profile on quality traits Chindhu S, Leela N.K and John Zachariah, T. The paper was approved. Chairman asked the authors to give appropriate title for the abstract.

Contribution No 857: Analysis of varietal profile, sourcing pattern and demand for Black pepper planting material in Kerala: Implications for supply systems policy- Lijo Thomas,

Rejula K and P Rajeev. The abstract was approved for presenting in SYMSAC at TNAU Coimbatore during 16-18 December 2015.

Contribution No 858: Influence of colored shade nets on physiological parameters, yield and quality in ginger and turmeric- K.S. Krishnamurthy and K. Kandiannan. The abstract was approved for presenting in SYMSAC at TNAU Coimbatore during 16-18 December 2015

Contribution No 859: Survival and growth of bush black pepper as influenced by source of planting materials and growth promoting substances.- Thankamani.C.K., Prathyusha,K, Hamza S and Kandiannan,K. The abstract was approved for presenting in SYMSAC at TNAU Coimbatore during 16-18 December 2015.Chairman asked the authors to bring out the scientific basis on role of jeevamirtham used in their study.

Contribution No 860: Performance of different turmeric varieties under organic cultivation - Thankamani CK, SrinivasanV, Dinesh R, Hamza S, Shajina O, Unmesh PG and John Zachariah T. The abstract was approved for presenting in SYMSAC at TNAU Coimbatore during 16-18 December 2015.Chairman asked the authors to collect data on comparison of in organic system with organic on the important parameters viz., curcumin yield and dryweight.

Contribution No 861: Development and performance evaluation of a mechanical unit for production of white pepper- Jayashree E, Suseela Bhai R, John Zachariah T, Ravindra Naik, Divya CD and Dennis Abraham George .The abstract was approved for presenting in SYMSAC at TNAU Coimbatore during 16-18 December 2015.

It was discussed that most of the SRFs and students did not stay till the end. This was viewed very seriously and the PIs/guides were asked to advise the SRFs/students not to repeat in future.

The meeting came to an end at 6.45 pm.

This has the approval of the Director.

Secretary,

Study Circle.

