

**Indian Institute of Spices Research  
Kozhikode, Kerala.  
Proceedings of Study Circle, 17<sup>th</sup> October 2014**

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**F. No. IISR/SCM-C/ 2014**

**1<sup>st</sup> November 2014**

The Study Circle Meeting was held on 17<sup>th</sup> October 2014 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 newly joined scientist (Mr. Narendra Chaudhari, Spices, Plantation & Medicinal & Aromatic Plants) to the house, following items were discussed:

**Contribution No 783:** Effect of varying temperature on stored turmeric powder (*Curcuma longa*). Aiswarya P, Jayashree E, John Zachariah T and Leela N K. The abstract was accepted for the poster presentation in Horticulture Science Congress, Coimbatore. The house suggested the authors to increase the study period for analyzing temperature effect on storage of turmeric powder.

**Contribution No 784:** Studies on extrusion characteristics of rice flour blended with selected spices. Jayashree E , Mufseena P V, and John Zachariah T. The abstract was accepted for the poster presentation in Horticulture Science Congress, Coimbatore). House suggested the authors to emphasize the study result only as observation not as a technology.

**Contribution No 785:** Pollen transmission of *Piper yellow mottle virus* in black pepper (*Piper nigrum* L.). K. P. Deeshma and A. I. Bhat .The abstract was accepted for the poster presentation in PLACROSYM, 2014).

**Contribution No 786:** Investigation of the pattern of gene expression in ginger (*Z. officinale* Rosc and mango ginger (*C. amada* Roxb) following inoculation with *Ralstonia solanacearum*. R Karthika, D Prasath, M Anandaraj . The abstract was accepted for the poster presentation in PLACROSYM, 2014).

**Contribution No 787:** Standardization of single-sprout transplanting technique in ginger. D Prasath, K Kandiannan, V Srinivasan and M Anandaraj. The abstract was accepted for the poster presentation in Horticulture Science Congress, Coimbatore.

**Contribution No 788:** In vitro antioxidant activity and cytotoxicity of sequential extracts from selected black pepper varieties and Piper species. D Sruthi and T John Zachariah. The paper was accepted.

**Contribution No 789:** In vitro cytotoxicity studies in sequential extracts of *Curcuma caesia* rhizome on human cancer cell lines. Reenu Joseph, Shamina Azeez and Chempakam Bhageerathy. The paper was accepted. The chairman had advised the ITMU to initiate the patenting process for the promising extracts from Contribution No 788 & 789.

**Contribution No 780:** Volatile terpenoid profile of Curcuma species. N K Leela, Hamza S, Prasath, D. The abstract was accepted for the poster presentation in Horticulture Science Congress, Coimbatore.

#### **Attachment Training Report:**

Heterosis Breeding- Cytological & Molecular Approaches-Sharon Aravind. The chairman had asked her to bring out the approaches she had learned in the technical programme for discussion in midterm IRC.

Conventional breeding strategies and potential use of molecular markers in breeding – S. Aarthi. She was asked to include breeding work using the with high dry recovery and long spike lines of blackpepper along with the assigned inter specific hybridization in *P.colubrinum* towards *resistance* to *Phytophthora foot rot*.

The chairman appealed to the pepper researchers to refer the *Phytophthora* diseases in blackpepper as “*Phytophthora foot rot*” instead of “Quick wilt disease”.

Analysis of the relationship between changes in soil moisture status and component processes of drought stress response in rice genotypes–H.J. Akshitha. She was asked to the review literature on excess moisture coupled with low light stress in plants for the possible inclusion in her work.

**Technical Seminar (Series No 18):** A Prelude to Ray Fungi. R.Suseela Bhai. Chairman appreciated the topic and the presentation.

The meeting came to an end at 6.20 pm.

This has the approval of the Director.

Secretary,  
Study Circle.