

ICAR-Indian Institute of Spices Research
Marikunnu PO, Kozhikode- 673012, Kerala

PROCEEDINGS OF THE STUDY CIRCLE MEETING HELD ON 27/09/2018

The study circle meeting was held on 27/09/2018 at 11:00 h to 13:30 and from 15:00 to 18: 00 h at SJ Hall under the Chairmanship of Dr K Nirmal Babu, Director. The following research papers were presented and approved by the house.

Research papers

1. **Contribution no 942:** Association of a Nucleorhabdovirus with vein clearing disease of cardamom in India **(Bhat AI)**

The paper was approved.

2. **Contribution no 943:** Simultaneous detection and quantification of Piperlongumine, Piperlonguminine and Piperine among *Piper sp* using modified RP-HPLC method **(Sivaranjani R).**

The paper was approved. However, the authors were advised to exploit bioinformatics approaches to validate the usefulness of these compounds in inhibiting cancer cells.

3. **Contribution no 944:** Spices Vs Diabetes: Role of cinnamon and turmeric to alleviate the symptoms of type II diabetes **(Sivaranjani R)**

The paper was approved. The authors may incorporate the following points during revision:

Toxicology studies need to be comprehensive and confirm whether the study clearly adheres to the biosafety guidelines on animals. The authors were advised to come out with a product and explain the advantages of combining the two components and to elucidate what happens when the two components are mixed.

The author may also compile information on *C. Caesia* and present in the next study circle.

4. **Contribution no 945:** RNA seq Analysis: R based pipeline for complete RNA-Seq data analysis. **(Blessy M Baby)**

The paper was approved.

5. **Contribution no 946:** Evaluation of coumarin content and essential oil constituents in *Cinnamomum cassia* **(Ann Jasmine Jose)**

The paper was approved. However, the authors may compile the production and demand figures of cinnamon in the world, determine which of the species is medicinally useful, and which species has greater coumarin content. They may

also investigate whether coumarin content varies with age/ location, whether the collections we have belong to the same species and whether there is a possibility for high coumarin content in *C. verum* samples.

6. **Contribution no 947:** Identification and mapping of climate analogues sites for black pepper using climate analogues tool of CCAFS and GIS under changing climate. (**Faras Bin Muhammed**)

The paper was approved. The zones where we have to focus in the future for introduction of black pepper may be identified.

The following four reports were also presented during the meeting.

1. **Anees K:** Emotional intelligence at work place
2. **Aarthi S:** Ph.D. research work on "Genetic variation, genotype-environment interaction and molecular genetic diversity analysis for yield and curcuminoids in turmeric (*Curcuma longa* L.)"
3. **Rajeev P:** Visit to Attapady Cooperative Farming Society. Dr P Rajeev may propose the way forward in this region.
4. **Sujeesh ES:** Pesticide application techniques and safety measures. These measures may be strictly followed in all our farm offices.
5. **Shivakumar MS:** Developing winning project

The meeting ended by 18: 00 h.

Secretary, Study Circle