

**Indian Institute of Spices Research**  
**Calicut, Kerala**  
**Proceedings of the Study Circle, 28 March 2012**

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F.No.IISR/SCM-C/ 2012

Dt. 30 March 2012

**The Study Circle meeting was held at 2.30 pm in the Silver Jubilee Hall under the chairmanship of Dr. M. Anandaraj, Director, IISR. After the introduction of a new member the following research paper was presented in the study circle.**

**Contribution No. 647:** *In vitro* antioxidant and cytotoxicity effects on cancer cell lines of essential oil, water and ethanol extracts of a few spices by Shamina Azeez, Ruby John Anto, N.K. Leela and Jayesh Antony was approved. She was advised to modify the statistical table.

Director instructed the SRFs who have registered for PhD, to pursue their course work in the institute and also to present periodical reports in the study circle.

The meeting came to an end at 3pm.

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**Dr. C.K. Sushama Devi**  
**Secretary, Study Circle**