

**Indian Institute of Spices Research, Kozhikode, Kerala.**

**Proceedings of Study Circle, 28<sup>th</sup> January 2016**

**F.No.IISR/SCM-C/2016**

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The Study Circle Meeting was held on 28<sup>th</sup> January 2016 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. In the meeting the following papers were discussed.

**Contribution No 866:** Exposure to salicylic acid and syringaldehyde alters gene expression in burrowing nematode, *Radopholus similis* - Rosana OB, Blessy M Baby and Santhosh J Eapen. The abstract was approved for the poster presentation in 6<sup>th</sup> International Conference on “ Plant, Pathogens and People” with the mission “Challenges in Plant Pathology to benefit humankind” at NASC Complex, New Delhi during February 23-27, 2016.

**Contribution No 867:** Identification of FMR Famide-related neuropeptides, flp-16 and flp-22 targeting neuropeptide signalling systems of *Radopholus similis* - Rosana OB, Krishna PB and Santhosh J Eapen. The abstract was approved for the poster presentation in 6<sup>th</sup> International Conference on “Plant, Pathogens and People” with the mission “Challenges in Plant Pathology to benefit humankind” at NASC Complex, New Delhi during February 23-27, 2016.

**Contribution No 868:** Comparative genomics of *Ralstonia solanacearum* strains from India reveals their phyletic profiles and diverse effectomes - Anandaraj M, Dinesh Singh, Eapen SJ, Gopalakrishnan C, Krishna Reddy M, Prameela TP, Ramesh R, Rosana OB, Singh BP, Sundaresha S, Suseela Bhai R and Vivek Srivastava . The abstract was approved for the oral presentation in 6<sup>th</sup> International Conference on Plant, Pathogens and People” with the mission “Challenges in Plant Pathology to benefit humankind” at NASC Complex, New Delhi during February 23-27, 2016.

**Contribution No 869:** RADOBASE – A database on burrowing nematodes infesting tropical and subtropical crops- Santhosh J Eapen, Agath Martin, Blessy M. Baby and Rosana O.B. The abstract was approved for the oral presentation in 6<sup>th</sup> International Conference on “ Plant,

Pathogens and People” with the mission “Challenges in Plant Pathology to benefit humankind” at NASC Complex, New Delhi during February 23-27, 2016.

**Contribution No 870:** A real time PCR based diagnostic tool for detecting *Radopholus similis* in soil sample - Santhosh J Eapen, Krishna PB, A Ishwara Bhat and Rosana O. B. The abstract was approved for the poster presentation in 6<sup>th</sup> International Conference on “ Plant, Pathogens and People” with the mission “Challenges in Plant Pathology to benefit humankind” at NASC Complex, New Delhi during February 23-27, 2016.

**Contribution No 871:** Apoplastic bacteria from ginger - a new prelude to the biological control of *Ralstonia solanacearum* race 4 biovar 3 by T. P. Prameela and R Suseela Bhai. The abstract was approved for the poster presentation in 6<sup>th</sup> International Conference on “ Plant, Pathogens and People” with the mission “Challenges in Plant Pathology to benefit humankind” at NASC Complex, New Delhi during February 23-27, 2016.

**Contribution No 872:** Microbial volatile organic compounds (MVOCs) from endophytic bacterium *Pseudomonas putida* BP 25R inhibit a broad spectrum of plant pathogens - Agisha V N , Neelam S, Vibhuti M, Santhosh J Eapen, Suseela Bhai R, A Kumar. The abstract was approved for the poster presentation in 6<sup>th</sup> International Conference on “ Plant, Pathogens and People” with the mission “Challenges in Plant Pathology to benefit humankind” at NASC Complex, New Delhi during February 23-27, 2016.

**Contribution No 873:** Nematicidal activity of new generation pesticide molecules and field management of slow decline disease in black pepper - Rashid Pervez, Santhosh J Eapen and Ahammed Shabeer ,T.P. The abstract was approved for the poster presentation in 6<sup>th</sup> International Conference on “ Plant, Pathogens and People” with the mission “Challenges in Plant Pathology to benefit humankind” at NASC Complex, New Delhi during February 23-27, 2016.

**Contribution No 874:** *Oscheius* spp. as an alternative to *Heterorhabditis* spp. for eco friendly management of cardamom root grub (*Basilepta fulvicorne* Jacoby) - Rashid Pervez, Santhosh J. Eapen, S. Devasahayam, T. K. Jacob, M. Ansar Ali and P. Thyagarajan. The abstract was approved for the poster presentation in 6<sup>th</sup> International Conference on “Plant, Pathogens and People” with the mission “Challenges in Plant Pathology to benefit humankind” at NASC Complex, New Delhi during February 23-27, 2016.

**Contribution No 875:** Promising alternative fungicide for the management of rot diseases in small cardamom (*Elettaria cardamomum* Maton) - Praveena, R. and Biju. C. N. The abstract was approved for the oral presentation in 6<sup>th</sup> International Conference on “ Plant, Pathogens and People” with the mission “Challenges in Plant Pathology to benefit humankind” at NASC Complex, New Delhi during February 23-27, 2016.

**Contribution No 876:** Complete genome sequencing of *Cucumber mosaic virus* from black pepper revealed rare deletion in the methyltransferase domain of 1a gene - K.A. Revathy and A. I. Bhat. The abstract was approved for the poster presentation in 6<sup>th</sup> International Conference on “ Plant, Pathogens and People” with the mission “Challenges in Plant Pathology to benefit humankind” at NASC Complex, New Delhi during February 23-27, 2016.

**Contribution No 877:** Gene expression analysis in black pepper (*Piper nigrum* L.) in response to water deficit stress.- Johnson George K, Neema Malik, Vijesh Kumar I.P. and Krishnamurthy K.S. The paper was approved.

Contribution No 878: Single nucleotide polymorphism (SNP) based marker assessment in black pepper (*Piper nigrum* L.) cultivars - Johnson George K, Soumya Madhavan, Neema Malik, Sobhida V K, Anjana Haridas, Saji K V Umadevi P. The paper was approved.

**Contribution No 879:** Resistome of black pepper- *Trichoderma* rhizosphere.- P. Umadevi, Vivek Srivastav & M. Anandaraj\* The abstract was approved for the poster presentation in 6<sup>th</sup> International Conference on “ Plant, Pathogens and People” with the mission “Challenges in Plant Pathology to benefit humankind” at NASC Complex, New Delhi during February 23-27, 2016.

The meeting came to an end by 5.30 PM

This is issued with the approval of the Director.

Secretary,  
Study Circle