

PUBLICATIONS

Research Papers

- Alagar, M., Rachana, K. E., Keshava Bhat, S., Shafeeq Rahman and Rajesh, M. K. 2013. Biology, damage potential and molecular identification of *Conogethes punctiferalis* Guenée in cocoa (*Theobroma cacao* Linn.). *J. Plantation Crops* **41**(3): 350-356.
- Anithakumari, P. 2013. Labour availability in coconut cultivation and impact on technology adoption as perceived by coconut farmers. *J. Plantation Crops* **41** (2): 186 - 190.
- Arunachalam, V., Augustine Jerard, B., Elain Apshara, S., Jayabose, C., Subaharan, K., Ravikumar, N. and Palaniswami, C. 2013. Digital phenotyping of coconut and morphological traits associated with eriophyid mite (*Aceria guerrononis* Keifer) infestation. *J. Plantation Crops* **41** (3): 417- 424.
- Chakrabarty, R., Acharya, G.C., and Sarma, T.C. 2013. Effect of fungicides, *Trichoderma* and plant extracts on mycelia growth of *Thielaviopsis paradoxa*, under in vitro condition. *The Bioscan* **8** (1): 55-58.
- Chakrabarty, R., Acharya, G.C., and Sarma, T.C. 2013. Management of basal stem rot of arecanut (*Areca catechu* L.) under Assam condition. *The Bioscan*, **8**(4): 1291-1294.
- Chalapathi Rao, N.B.V., Emmanuel, N. and Subaharan, K. 2013. Impact of olfactory conditioned parasitoid *Goniozus nephantidis* in suppression of *Opisina arenosella* in field conditions in Andhra Pradesh. *J. Plantation Crops*, **41** (3): 460-462.
- Chandra Mohanan R., Prabha K. Peter and Sharadraj, K. M. 2013. Production technology

of coir pith cake formulation of *Trichoderma harzianum*. *J. Plantation Crops* **41** (2): 214-218.

Dhanapal, R., Subramanian, P., Maheswararappa, H.P. and Harisha, C.B. 2013. Impact of intercropping on root distribution in coconut under coastal sandy soil. *J. Plantation Crops* **41** (2): 267-269.

Elain Apshara, S., Rajesh, M.K. and Balasimha, D. 2013. Assessment of morphological, physiological and molecular characteristics of cocoa accessions from Central and South America in relation to drought tolerance. *J. Plantation Crops* **41** (3): 389- 397.

Elain Apshara, S. 2013. Performance of selected cocoa (*Theobroma cacao* L.) clones under arecanut and coconut. *J. Plantation Crops* **41** (2): 242- 246.

George V. Thomas, Palaniswami, C., Murali Gopal and Alka Gupta. 2012. Recycling coconut leaf-agro wastes mixture using *Eudrilus* sp. and growth promotion properties of coconut leaf vermicompost. *Indian J. Innovative Horticulture* **1** (2) : 113-118.

Hebbar, K.B., Sheena, T.L., Shwetha Kumari, K., Padmanabhan, S., Balasimha, D., Mukesh Kumar and George V. Thomas. 2013. Response of coconut seedlings to elevated CO₂ and high temperature in drought and high nutrient conditions. *J. Plantation Crops* **41**: 118.

Hebbar, K. B., Rane, J., Ramana, S., Panwar, N. R., Ajay, S., Subba Rao, A., and Prasad, P. V. V. 2014. Natural variation in the regulation of leaf senescence and relation to



- N and root traits in wheat. *Plant and Soil* DOI 10.1007/s11104-013-2012-6.
- Hemalatha, N., Rajesh, M. K. and Narayanan, N. K. 2013. Machine learning approaches for prediction of expansin gene family in indica rice. *Agricultural Res.* **2**(4): 309-318.
- Hemalatha, N., Rajesh, M. K. and Narayanan, N. K. 2013. An integrative system for prediction of NAC proteins in rice using different feature extraction methods. *International J. Soft Computing* **4** (1): 9-21.
- Jerard, B. A., Rajesh, M. K., Elain, S. A., Sajini, K. K., Shafeeq Rahman, Fayas, T. P. and Anitha Karun. 2013. Scope of novel and rare bulbiferous coconut palms (*Cocos nucifera* L.). *Genetic Resources and Crop Evolution* **61**:1-6, DOI 10.1007/s10722-013-0067-0.
- Jerard, B. A., Damodaran, V., Niral, V., Samsudeen, K., Rajesh, M. K., and Sankaran, M. 2013. Conservation and utilization of soft endosperm coconut accession from Andaman Islands. *J. Plantation Crops* **41**(1): 14-21.
- Krishnakumar, V., Kalavathi, S., Regi Jacob Thomas and George V. Thomas. 2013. Diversification of coconut based farming system through community based organizations for income generation and sustaining productivity. *J. Plantation Crops* **41**(3): 271-276.
- Maheswarappa , H.P. Dhanpal R., Subramanian P. and Palaniswami C. 2013. Evaluation of coconut based high density multi species cropping system under organic and integrated nutrient management. *J. Plantation Crops* **41**(2): 130-135.
- Manimekalai, R., Smita Nair and Soumya, V. P. 2013. Evidence of 16SrXI group phytoplasma DNA in embryos of root (wilt) diseased coconut palms. *Australasian Plant Pathology*. DOI 10.1007/s13313-013-0251-x.
- Manimekalai, R., Anil Kumar, N.C., Roshna, O.M. and Satyamoorthy, K. 2013. Isolation and comparative analysis of potc gene of ABC-transporter system from coconut and sugarcane - 16srXI group phytoplasmas. *J. Plant Pathology* DOI: 10.4454/JPP.V96I1.003).
- Manimekalai, R., Soumya, V. P., Smita Nair, George V. Thomas and Baranwal, V. K. 2013. Molecular characterization identifies 16SrXI-B group phytoplasma (*Candidatus Phytoplasma oryzae*-related strain) associated with root (wilt) disease of coconut in India. *Scientia Horticulturae* **165**: 288-294.
- Merin, K. Eldo, Rajesh, M. K., Jamshinath, T. P., Hemalatha, N., Murali Gopal, George V. Thomas. 2014. Development of a tool for computational prediction of σ70 promoters in *Pseudomonas* spp using SVM and HMM approaches. *Indian J. Agricultural Sci.* **84**3 (1): 119-123.
- Murali Gopal, Alka Gupta and George V. Thomas. 2013. Bespoke microbiome therapy to manage plant diseases. *Frontiers in Microbiol.* **4**:355, DOI: 10.3389/fmicb.2013.00355.
- Murali Gopal, Alka Gupta and George V. Thomas. 2012. Vermicompost and vermiwash add beneficial microflora that enhances soil quality and sustain crop growth. *Indian J. Innovative Horticulture* **1** (2) : 93-100.
- Nagaraja, N. R., Anupam Singh, Pallavi, J. K., Sharma, J. B., Singh, G. P., Neelu Jain and Prabhu, K. V. 2013. Validation of molecular markers linked to the stem rust resistance genes effective in India. *Indian J. Genetics and Plant Breeding* **73**(3): 314-319.
- Nagwekar, D.D., Sawant, V.S., Haldankar, P.M., Jadhav, B.B., Arulraj, S. and Maheswarappa, H.P. 2013. Performance of medicinal and



- aromatic plants as intercrops in coconut plantations in Konkan region of Maharashtra. *J. Plantation Crops* **41**(3): 384-388.
- Nihad, K., Krishnakumar, V. and Sheela, V.L. 2013. Heliconia stricta as intercrop in coconut - Impact of cropping system and nutrition on floral traits. *J. Plantation Crops* **41**(2):251-254.
- Niral, V., Devakumar, K. Umamaheswari, T.S., Naganeeswaran, S., Nair, R.V. and Jerard, B. A. 2013. Morphological and molecular characterization of a large fruited unique coconut accession from Vaibhavwadi, Maharashtra, India. *Indian J. Genet.* **73**(2): 220-224 .
- Priya George, Alka Gupta, Murali Gopal, Litty Thomas and George V. Thomas. 2013. Multifarious beneficial traits and plant growth promoting potential of *Serratia marcescens* KiSII and *Enterobacter* sp. RNF267 isolated from the rhizosphere of coconut palms (*Cocos nucifera* L.). *World J. Microbiol. Biotechnol.* **29**(1):109-117.
- Rabha H., Chakrabarty and Acharya, G.C. 2013. New distributional record of red palm weevil, *Rhynchophorus ferrugineus* (Olivier) infesting arecanut in Assam, India. *J. Plantation Crops* **41** (2): 258-260.
- Rabha H., Chakrabarty, R. and Acharya, G.C. 2013. Preliminary assessment of eriophyid mite infestation on coconut in Assam. *J. Plantation Crops* **41** (3): 450-454.
- Rajamanickam, K. Johnson, I. and Subaharan, K. 2013. Evaluation of egg larval predator anthocorid bug, *Cardiostethus exiguus* against *Opisina arenosella* in Tamil Nadu. *J. Plantation Crops* **41** (3): 460-462.
- Rajesh, M. K., Jerard, B.A., Preethi, P., Regi Jacob Thomas and Anitha Karun. 2014. Application of RAPD markers in hybrid verification in coconut. *Crop Breeding and Applied Biotechnology* **14**: 36-41.
- Rajesh, M. K., Samusdeen, K., Rejusha, P., Manjula, C., Shafeeq Rahman and Anitha Karun. 2014. Characterization of Annur and Bedakam Ecotypes of coconut from Kerala state, India, using microsatellite markers. *Intl. J. Biodiversity*, Article ID 260895, <http://dx.doi.org/10.1155/2014/260895>.
- Sairam, G. L., Rajesh, M. K., Nithya S. and George V. Thomas. 2013. An SVM-based algorithm for the prediction and classification of enzymes involved in antibiotic biosynthetic pathways in plant growth promoting *Pseudomonas* species. *Indian J. Agricultural Sci.* **83** (10): 1075-1078.
- Samsudeen, K., Thamban, C., Niral, V., Jerard, B.A., Rajesh, M.K., Manjula, C., Devadas, K. and Anitha Karun. 2013. *In situ* approach for rapid characterization to aid on farm conservation of coconut germplasm - A case study of two ecotypes from West coast of India. *J. Plantation Crops* **41**(3): 357-363.
- Samsudeen, K., Niral, V., Jerad, B.A., Mukesh Kumar, Sugatha, P. and Hebbar, K. B. 2013. Influence of variety and season in the inflorescence sap production in *Cocos nucifera* L. *J. Plantation Crops* **41** (1): 57-61.
- Sharadraj, K. M. and ChandraMohanran, R. 2012. Integrated management of bud rot disease of coconut palm in India. *J. Mycol. Plant Pathol.* **42**:376-380.
- Shil Sandip, Acharya, G.C., Jose, C.T., Muralidharan, K., Sit A.K. and George V. Thomas. 2013. Forecasting of arecanut market price in north eastern India: ARIMA modelling approach. *J. Plantation Crops* **41** (3): 330-337.
- Shil Sandip, Acharya, G.C., Paul, S.C. and Paul Soumen 2013. Trend analysis and forecasting



- coconut production in Assam. *J. Plantation Crops* **41** (2): 238-241.
- Sivakumar, T. and Chandrika Mohan 2013. Occurrence of rhinoceros beetle, *Oryctes rhinoceros* L., on banana cultivars in Kerala. *Pest Management in Horticultural Ecosystems* **19** (1): 99-101.
- Smita Nair, Roshna, O.M., Soumya V.P., Vinayaka Hegde, Suresh Kumar, M., Manimekalai, R. and George V Thomas. 2014. Real-time PCR technique for detection of arecanut yellow leaf disease Phytoplasma. *Australasian Plant Pathology*. DOI: 10.1007/s13313-014-0278-7.
- Sujatha, S. and Bhat Ravi. 2013. Impact of drip fertigation on arecanut-cocoa system in humid tropics of India. *Agroforestry Systems* **87** (3): 643-656.
- Thamban, C., Mathew, A.C., Subramanian, P., and Muralidharan, K. 2014. Soil and water conservation measures for sustainable coconut production: Impact of interventions under Farmers Participatory Action Research Programme. *J. Plantation Crops* **42**(1): 94-100.
- Thomas, R.J., Rajesh, M. K., Kalavathi, S., Krishnakumar, V., George, D. J., Jose, M. and Nair, R.V. 2013. Analysis of genetic diversity in coconut and its conservation in root (wilt) disease affected areas of Kerala: A community participatory approach. *Indian J. Genetics and Plant Breeding* **73** (3): 295-301.
- Papers presented in seminar, symposia, workshops, etc.**
- Acharya, G.C., Chakrabarty R., Huddone, S., Nair, Smitha, Madhavan S., and Manimekalai R. 2014. Molecular characterization of Ganoderma isolates from foot-rot diseased arecanut palms in Assam. In: National Seminar on "Applications of Bioinformatics in Agriculture", CPCRI, Kasaragod 11-13 November, 2013. pp-16.
- Alagar, M. 2013. Cumulative effects of insecticides spray on predatory and parasitoid population occurring in cocoa ecosystem. In: 4th Biopesticide International Conference (BIOCICON, 2013), St. Xavier's College, Palayamkottai, Tamil Nadu, 28-30th November, 2013, Book of Abstract pp. 219.
- Anitha Karun and Sajini, K. K. 2014. Present Status and future prospects of palm Genetic resource conservation by cryopreservation at Brainstorming meeting and training cum Demonstration on Cryopreservation and *in vitro* conservation in Horticulture crops on 21st February 2014 at IIHR. Bangalore. pp 11.
- Elain Apshara S, Naganeeswaran S, Manimekalai R. 2013. CocoaESTdb: A Comprehensive Cocoa Expressed Sequence Tag database. In: National conference on Application of Bioinformatics in Agriculture. Nov. 11-12, 2013. Organised by CPCRI, Kasaragod, India. pp 51.
- Elain Apshara, S. 2013. Comparative performance of selected cocoa parents and progenies as clones in South India. In: Abstracts of Malaysian International Cocoa Conference on Innovation and technology driving cocoa productivity/ sustainability, (Eds). Sabariah Samsudin, Samuel Yap Kian Chee and Badrul Hisyam Zainudin 7-8 October 2013, Sunway Pyramid Convention Centre, Kuala Lumpur. pp. 25.
- Elain Apshara, S. 2013. Selecting elite cocoa clones for phenotypic characters including pod wall hardness in India. In: Abstracts of Malaysian International Cocoa Conference on Innovation and technology driving cocoa productivity/ sustainability, (Eds). Sabariah Samsudin, Samuel Yap Kian Chee and Badrul Hisyam Zainudin 7-8 October 2013, Sunway



- Pyramid Convention Centre, Kuala Lumpur. pp. 69.
- Elain Apshara, S., Naganeeswaran S. and Manimekalai, R. 2013. CocoaESTdb: A comprehensive cocoa Expressed Sequence Tag database. In: Abstracts of National Seminar on Applications of Bioinformatics in Agriculture, (Eds.) George V. Thomas, Manimekalai, R., Rajesh M.K. and Subaharan, K. 11-12 November, 2013. pp. 51.
- Fayas, T. P., Rajesh, M. K. and Anitha Karun 2013. Isolation and characterization of genes induced during somatic embryogenesis of coconut. In : Abstracts of National Seminar on Applications of Bioinformatics in Agriculture, (Eds.) George V. Thomas, Manimekalai, R., Rajesh M.K. and Subaharan, K. 11-12 November, 2013. pp. 64.
- George V. Thomas, Murali Gopal and Alka Gupta. 2013. Diversity, functional traits and application of PGPR in plantation crops - current status. In : National Seminar on "Microbes and Human Welfare", Bharathidasan University, Tiruchirappalli, Tamil Nadu, July 20-21, 2013. pp.
- George V. Thomas, Ravi Bhat and Subramanian, P. 2013. Water quality and water management in plantation crops cultivation. Keynote address in International conference on water quality and management for climate resilient agriculture at Jalgaon, Maharashtra from 28-05-2013 to 30-05-2013. pp. 99-100.
- Hebbar, K.B., Arivalagan, M., Mathew, A.C., and George V. Thomas. 2013. Coconut Palm Sugar: Present status and future prospective for Indian sugar industries. In: Proc. International Conclave on Sugar Crops, 15-17 February, 2014, IISR, Lucknow, India. pp. 87-90.
- Hegde V. 2013. Diagnostics for disease of coconut and arecanut. In: National Symposium on Pathogenomics for Diagnosis and Management of Plant Diseases" 24-25 October, 2013, CTI, Thiruvananthapuram, Kerala. pp.
- Hemalatha N. and Rajesh M. K. 2013. Design and implementation of computational tools for prediction of abiotic stress-responsive genes in the genome of indica rice using machine learning algorithms. In: National Seminar on 'Applications of Bioinformatics in Agriculture', CPCRI, Kasaragod, 11-12 November, 2013. pp 52.
- Hemalatha, N., Rajesh, M. K., and Narayanan, N. K. 2013. NACSVMPred: A machine learning approach for prediction of NAC proteins in rice using support vector machines. In: Proceedings of The First International Conference on Advanced Information Technologies & Applications 2012 (ICAITA 2012), held on December 28th- 29th 2012, Dubai, UAE, Computer Science & Information Technology (CS & IT), Sundarapandian, V. and Nagamalai, D. (Eds.). ICAITA, SAI, SEAS, CDKP, CMCA, CS & IT 08, pp. 83-95.
- Jaganathan, D., Thamban, C., Jose, C.T., Jayasekhar, S. and Muralidharan, K. 2013. Analysis of organic farming practices in cocoa in India. In: Abstracts of papers. International conference on extension educational strategies for sustainable agricultural development- A global perspective. 5-8 December, 2013, University of Agricultural Sciences, Bangalore, pp. 55.
- Kalavathi, S., Krishnakumar, V., Thomas, R. J., George V. Thomas and Anithakumari, P. 2013. Community based adoption of intercropping in coconut based farming systems of Kerala with special reference to tuber crops. In: Abstract of Papers. International Conference on Tropical Roots



- and Tubers for Sustainable Livelihood under Changing Agro-climate. Thiruvananthapuram, Kerala. 09-12 July, 2013. pp 120-121.
- Kalavathi, S and Anithakumari, P. 2013. Community based approaches and models for technology transfer in coconut: Prospects and concerns at grass roots. In: Abstract of papers. International Conference on Extension Educational Strategies for Sustainable Agricultural Development - A Global Perspective. UAS, Bangalore, 5-8 December, 2013. pp. 24-25.
- Kesavan Subaharan, M. Eswarmoorthy, B.V.V.S. Pavan Kumar, Vibina Venugopal, K. Rajamanickam, S. Ganesan, T. Srinivasan, N.B.V. Chalapathi Rao, and Sanjeev Gurav. 2014. Nanomatrix for delivery of semiochemicals of coconut red palm weevil, *Rhynchophorus ferrugineus*. In: National Symposium on Emerging Trends in Pest Management, TNAU Coimbatore, 22-24 January, 2014. pp 42.
- Krishnakumar, V., Dhanapal, R. and George V. Thomas 2013. Integrated nutrient management for intercropped elephant foot yam (var. Gajendra) in coconut garden. In: Abstract of Papers. International Conference on Tropical Roots and Tubers for Sustainable Livelihood under Changing Agro-climate. Thiruvananthapuram, Kerala, 09-12 July, 2013. pp 153-154.
- Lakshmi Jayaraj K., Sreejith K., Bhavyashree U., Fayas T. P., Rajesh M. K. and Anitha Karun 2013. Isolation and analysis of proteins present at different developmental stages of somatic and zygotic embryos of coconut. In: National Seminar on 'Applications of Bioinformatics in Agriculture', CPCRI, Kasaragod, 11-12 November, 2013. pp. 44.
- Lone, S.A. Sudheer Kumar, Alka Gupta, Gujar, G.T., Saxena, A.K., Malik, A. and Padaria, J.C. 2013. Genetic diversity of crystalline protein encoding genes in native *Bacillus thuringiensis* strains isolated from diverse extreme environments of India. In: International Conference on *Bacillus anthracis*, *B. cereus*, and *B. thuringiensis* (*Bacillus ACT, 2013*), Victoria, Canada, 1-5 September, 2013. Abstract No. 45C, pp. 71-72.
- Manimekalai, R., Roshna, O.M. and Manju, K.P. 2013. Genome analysis in palms, In: National Conference on Application of Bioinformatics in Agriculture. 11-12 November, 2013. CPCRI, Kasaragod. pp.3.
- Manimekalai, R., Smita Nair., Roshna, O.M., Anil Kumar, N.C., Soumya, V.P. 2013. Diverse target genes for the detection of phytoplasma in coconut root (wilt) disease. In: National Seminar on Applications of Bioinformatics in Agriculture. CPCRI, Kasaragod. 11-12 November, 2013. pp 24.
- Manju, K.P. and Manimekalai, R. 2013. Comparative chloroplast genomes of Arecaceae family, In: National Conference on Application of Bioinformatics in Agriculture. 11-12 November, 2013. CPCRI, Kasaragod. pp 5.
- Manju KP, Sarangi S and Manimekalai R. 2013. In silico analysis of oil synthesizing genes from EST sequences of oil palm and mining and annotation of microsatellites. In: National Conference on Application of Bioinformatics in Agriculture. 11-12 November, 2013. CPCRI, Kasaragod, India. pp. 9.
- Manjula M.S., Anil Paul, Rachana K.E., Naganeeswaran S., Hemalatha N., Sreepriya P. and Rajesh M.K. 2013. PalmRgene: an online platform for exploration, prediction and analysis of palm disease resistance genes. In: International Symposium on 'Computational Biology & Drug Design', 10-12 July, 2013. MACFAST, Thiruvalla. pp 38.



Manoj P. Samuel, S. Senthilvel and A.C. Mathew. 2013. Performance evaluation of a dual flow recharge filter for improving groundwater quality. In: National Symposium on Climate Change and Indian Agriculture; Slicing Down the Uncertainties, 22-23 January, 2013, CRIDA, Hyderabad. pp.134.

Manoj P. Samuel, S. Senthilvel and A.C. Mathew. 2013. Techno-economic evaluation of dual flow grass filters integrated with groundwater recharge system In: 47th Annual Convention of ISAE and International Symposium on 'Bio-Energy- Challenges and Opportunities', 28-30 January, 2013, DRR, Hyderabad. 194-195.

Monica V., Rachana K. E., Rajesh M. K., Anitha Karun and George V. Thomas. 2013. Isolation and structural perspectives of Phospholipase D from coconut. In: National Seminar on 'Applications of Bioinformatics in Agriculture', 11-12 November, 2013, CPCRI, Kasaragod. pp. 38.

Murali Gopal, Alka Gupta and George V. Thomas. 2013. Power of the small: gut and root microbiome control human & plant health. In : National Seminar on Trends in Environ. Biotech and its applications', 10-11 December, 2013, St. Aloysius College, Mangalore. pp. 34.

Murali Gopal, Alka Gupta and George V. Thomas. 2013. Tapping the second genome for plant disease management. In: National Symposium on 'Pathogenomics for Diagnosis & Management of Plant Diseases', CTCRI, Trivandrum, Oct. 24-25, 2013. pp. 120-121.

Naganeeswaran, S., Elain Apshara, S. and Manimekalai, R. 2013. Bioinformatics tools for EST/ transcriptome data analysis. In: Abstracts of National Seminar on Applications of Bioinformatics in Agriculture, November 11-12, 2013, CPCRI, Kasaragod. pp. 53.

Nanthakumar A., Rajesh M. K., Anitha Karun and George V. Thomas 2013. Isolation and in silico characterization of a full-length cDNA encoding a cyclic nucleotide gated ion channel protein in coconut. In: National Seminar on 'Applications of Bioinformatics in Agriculture', 11-12 November, 2013, CPCRI, Kasaragod. pp. 35.

Prathibha P. S., Rachana, K. E., Shafeeq Rahman, Sabana, A. A., Subaharan, K. and Rajesh, M. K. 2013. Molecular characterization of arecanut white grubs, *Leucopholis* spp. (Scarabaeidae: Coleoptera). In: National Seminar on Applications of Bioinformatics in Agriculture, 11-12 November, 2013, CPCRI, Kasaragod. pp.13.

Prathibha, P.S., Kumar, A.R.V., Subaharan K. 2013. Ethology of coconut root grub chafer, *Leucopholis coneophora* Burmeister (Melolonthinae: Scarabaeidae). *Intl. J. Agri. & Food Sci. Tech.* **4** (2) 24- 28.

Prathibha, P.S, Subaharan, K., Kumar, A.R.V. 2013. Toxicity of newer insecticide molecules on palm white grub, *Leucopholis coneophora* Blanch. In: New Horizons in Insect Science (Abstract of papers) 4th International Conference on Insect Science 14-17 February, 2013. pp. 114.

Prathibha, V.H, Sharadraj, K.M. Nidhina, K and Vinayaka Hegde, 2013. Evaluation of locally available substrates for mass production of *Trichoderma*, In: National symposium on "Pathogenomics for Diagnosis and Management of Plant Disease. 24-25 October 2013, CTCRI, Thiruvananthapuram. pp.142-143.

Prathibha, V.H, Sharadraj, K.M. Nidhina, K and Vinayaka Hegde, 2013, Evaluation of fungicides and biocontrol agents against *P. meadii* causing fruit rot, bud rot and crown rot of arecanut. In: National symposium on



"Pathogenomics for Diagnosis and Management of Plant Disease. 24-25 October, 2013, CTCRI, Thiruvananthapuram. pp.164.

Preethi, P., Rajesh, M. K., Jerard, B. A. and Anitha Karun 2013. Development of SCAR markers for palm height in coconut. In: National Seminar on Applications of Bioinformatics in Agriculture, CPCRI, Kasaragod, 11-12 November, 2013. pp.8.

Rachana, K. E., Rajesh, M. K., Regi Jacob Thomas and Anitha Karun 2013. Molecular cloning, structural modeling and docking studies of CnCCR1, a CC-NBS-LRR type Resistance Gene Analogue (RGA) from coconut. In: National Seminar on 'Applications of Bioinformatics in Agriculture', CPCRI, Kasaragod, 11-12 November, 2013. pp. 62.

Rajesh, M. K. and George V. Thomas. 2013. Development of bioinformatics tools and databases at the DBT Distributed-Information Sub-Centre, CPCRI: An overview. In: National Seminar on Applications of Bioinformatics in Agriculture. CPCRI Kasaragod, 11-12 November, 2013. pp 49.

Rajesh, M. K., Rachana, K. E., Manjula, M. S., Regi Jacob Thomas and Anitha Karun. 2013. Characterization of Resistance Gene Analogue (RGA) sequences in coconut transcriptome and an evolutionary meta-analysis of palm RGAs. In: Second Current Opinion Conference on Plant Genome Evolution 2013, Amsterdam, The Netherlands, 8-10 September, 2013. pp

Rajesh, M. K., Rachana, K. E., Merin Babu, Regi Jacob Thomas and Anitha Karun. 2013. Characterization of the global transcriptome responsive to root (wilt) disease in coconut using RNA-seq. In: National Symposium on Pathogenomics for Diagnosis and

Management of Plant Diseases, CTCRI Thiruvananthapuram, 24-25 October, 2013. pp

Rajesh M. K. 2013. An overview of Next Generation Sequencing (NGS) technologies and its applications in coconut. In: National Seminar on New Frontiers in Molecular Biology, Mar Athanasius College, Kothamangalam, 12-13 December, 2013. pp

Rajkumar, Rachana K. E., Sabana A. A., Shahin S., Subaharan K. and Rajesh M. K. 2013. Molecular identification of entomopathogenic nematodes of North Kerala. In: National Seminar on Applications of Bioinformatics in Agriculture, CPCRI Kasaragod, 11-12 November, 2013. pp.12.

Ravi Bhat, George V. Thomas and P. Subramanian. 2013. Coconut- an ideal crop for coastal ecosystem under changing climatic conditions. In: National Symposium on Managing natural resources for enhancing agricultural and allied productivity in coastal region under changing climate, CSSRI, RS, Bharuch, Gujarat, 11-13 December, 2013. pp. 23.

Roopa P. Namboothiri, Jamshinath T. P., Sreejisha P. and Rajesh M.K. 2013. COCOKB: an annotation knowledgebase for coconut (*Cocos nucifera L.*). In: International Symposium on Computational Biology & Drug Design, MACFAST, Thiruvalla, 10-12 July, 2013. pp 42.

Sabana A. A., Rachana K. E., Rajesh M. K., Jerard B. A. and Anitha Karun. 2013. Start Codon Targeted (SCoT) markers: A novel marker system to assess genetic diversity of coconut germplasm accessions. In: National Seminar on Applications of Bioinformatics in Agriculture, CPCRI, Kasaragod, 11-12 November, 2013. pp.10.



Shafeeq Rahman, Naganeeswaran S., Rajesh, M. K. and Anitha Karun. 2013. Transcriptome-based reconstruction of gibberellic acid biosynthetic pathway in coconut. In: National Seminar on Applications of Bioinformatics in Agriculture, CPCRI Kasaragod, 11-12 November, 2013. pp. 70.

Shareefa, M., Srivastava, M. Dubey, A. K. Singh, N. K. Singh, A.K. 2013. Development and validation of EST derived SSR in mango (*Mangifera indica L.*). In: National Seminar on Applications of Bioinformatics in Agriculture (Abstracts), CPCRI, Kasaragod 11-12 November, 2013. pp.14.

Sreepriya P., Anil Paul, Jamshinath T.P., Hemalatha N., Sreejisha P., Manjula M.S. and Rajesh M.K. 2013. GAPred: A high performance prediction tool for gibberellic acid metabolic enzymes using kernel-based machine learning algorithms and HMMs. In: International Symposium on 'Computational Biology & Drug Design', MACFAST, Thiruvalla, 10-12 July, 2013. pp 48.

Subramanian, P., Dhanapal, R., Ravi Bhat, Maheshwarappa, H. P., Hebbar, K. B. and Harisha, C. B. 2013. Impact of drip fertigation on productivity of coconut under coastal sandy soil. In: International conference on water quality and management for climate resilient agriculture at Jalgaon, Maharashtra from 28-05-2013 to 30-05-2013. pp. 135-136.

Kesavan Subaharan, M. Eswarmoorthy, B.V.V.S. Pavan Kumar, Vibina Venugopal, K. Rajamanickam, S. Ganesan, T. Srinivasan, N.B.V. Chalapathi Rao, and Sanjeev Gurav. 2014. Nanomatrix for delivery of semiochemicals of coconut red palm weevil, *Rhyzophorus ferrugineus*. In: National Symposium on Emerging Trends in Pest

Management, TNAU Coimbatore, 22-24 January, 2014. pp 42.

Popular articles

Acharya, G.C and Rabha, H. 2014. Coconut cultivation-Source of economic development of farming community of North East (in Assamese): Ankur (January 2014) Assam State Nurserymen Association, pp 43-48.

Anitha Karun and Rajesh, M. K. 2013. Production of coconut planting material through plumule culture. *Indian Coconut J.* **56** (2): 22-25.

Anithakumari, P. and Jayanath, R. 2013. Karshakothama prafayil oru CPS president (In Malayalam). *Indian Naleekera J.* **4** (8): 28-30.

Arivalagan, M. and Hebbar, K.B. 2013. Coconut-sap sugar for managing diabetes. *ICAR News*, **19** (2), April-June 2013. p 15.

ChandraMohan, R. 2013. Trichoderma coir pith cake - a new product for plant disease management. *Indian Coconut J.* **56** (7): 29-30.

Chandrika Mohan and Josephrajkumar, A. 2013. Understanding damage symptoms and management of coconut pests. *Indian Coconut J.* **56** (3): 10-15.

Chandrika Mohan, Kalavathi, S. and Merin Babu. 2013. Coconut pests and their management - diagnose before treatment (Malayalam) Kerala Karshakan **59** (2): 31-33.

Elain Apshara, S. 2013. Scientific approaches for seedling production in Cocoa. *The Cashew and Cocoa J.* **2** (1): 20-25.

Hebbar, K.B., A.C. Mathew and C. Thamban. Neerayedukkan Puthureethi, Karshaksree, December, 2013, pp 64.



- Hebbar, K.B., M. Arivalagan, George V. Thomas, C. Thamban, K. Samsudeen and A.C. Mathew. Varoo....Neera shekharikkoo - Kerala Karshakan, 2013, pp 19.
- Hebbar, K.B., Mathew A.C., Arivalagan M, Samsudeen, K. and George V. Thomas. Value added products from Neera, *Indian Coconut J.*, August, 2013. pp 28.
- Hedge V and Prathibha V H. 2013. Integrated Disease Management in Coconut. *Indian Coconut J.* **56** (3):16-21 (In Kannada).
- Jaganathan, D., Elain Apshara, S., Nagaraja, N. R. and Purandhara, C. 2013. Adikeyondige Bahubele Krishi Paddati: Yashassina Hinnale (Kannada). *Krishimitra*. **10** (7): 6 -11 (In Kannada).
- Jaganathan, D., Nagaraja, N. R. and Purandhara, C. 2013. Arecanut leaf sheath: An alternate cattle feed. *Indian J. Arecanut, Spices and medicinal Plants* **15** (2): 15 -18.
- Jeena Mathew and V Krishnakumar 2013. Soil health essential for better productivity in coconut. *Kerala Karshakan*. **1** (3): 36-38.
- Jeena Mathew and V. Krishnakumar. Chorimanal Pradeshathe Vila Paripalanam. *Karshakan*, May 2013, 21 (5): 24-26.
- Jissy George. 2013. Importance of Gooseberry. *Karshakan* **21** (12) 40 - 41.
- Josephrajkumar, A., Rajan, P., Chandrika Mohan and Namboothiri, C.G.N. 2013. Distinguishing palm aphid and arecanut whitefly, two emerging pests in palms. *Indian J. Arecanut, Spices & Medicinal Plants* **15** (2): 3-7.
- Josephrajkumar, A., Merin Babu and Krishnakumar, V. 2014. A family which farms together stays together (Cover story International Year of family farming). *Kerala Karshakan e-journal* **1**(8): 4-11.
- Josephrajkumar, A. and Chandrika Mohan. 2014. Beware of pests (Agro-clinic) *Kerala Karshakan e-journal* **1**(9): 25-33.
- Karnam Venkatesh, Om Prakash Gupta, Ganapati N. Mukri, Abhijit Kumar Das, and Nagaraja, N. R. 2013. Regulatory Mechanisms in Commercialization of Transgenic Crops. *Agrobios Newsletter*. **12** (2): 72-73.
- Karnam Venkatesh, Om Prakash Gupta, Ganapati N. Mukri, Abhijit Kumar Das, and Nagaraja, N. R. 2013. Celiac Disease and Wheat. *Agrobios Newsletter*. **12** (3): 79-80.
- Karnam Venkatesh, Om Prakash Gupta, Sanjay Kumar Singh, Ganapati N. Mukri, Abhijit Kumar Das, and Nagaraja, N. R. 2013. Marker Assisted Backcross Breeding: Applications in Wheat Improvement. *Agrobios Newsletter*. **12** (4): 77-78.
- Kesavan Subaharan, Vibina Venugopal, Ravindran, P., 2013. Semiochemicals in management of coconut rhinoceros beetle and red palm weevil. *Indian Coconut J.*, **56** (3): 26-28.
- Krishnakumar, V., Chandrika Mohan and Merin Babu. 2013. Kearadhishthitha uthpadana sambradayavum roga, keeda niyantranavum. *Indian Nalikera J.* **4** (7): 8-14 (In Malayalam).
- Leena, S. and Manojkumar, T.S. 2013. Women conquer yet another bastion. *Indian Coconut J.* **56** (2): 27-28.
- Lekha, G. and Muralidharan, P. 2013. Bioagents for protecting Cowpea. *Harithaboomi*. **4** (7): 34-35.
- Maheswarappa, H.P. and Harisha, C.B. 2013. Production and importance of tender coconut.



- Bharateeya Tengu Patrike*, **24** (2): 24-29 (In Kannada).
- Manojkumar, T. S., Leena, S. and Jayashree, M.P. 2014. Success Story of Women FoCTs at KVK, Kasaragod. *Indian Coconut J.* **56**(8): pp 12-13.
- Murali Gopal, Alka Gupta and George V. Thomas. 2013. Food for thought: do soil microbes need food too? indeed, lest we don't need ours. *Curr. Sci.* **105** (7) : 902-907.
- Nagaraja, N. R., Jaganathan, D., Ananda, K. S. and Purandhara, C. 2013. Paryaaya pashu ahaaravaagi adike ele haale. *Krishimitra* **10**(10): 10-13 (In Kannada).
- Nair, S.A., Jose, M., Thomas, R.J. and Nair, R.V. 2013. Production of Neera. *Indian Coconut J.* **56** (1): 25-26.
- Nihad, K. and Krishnakumar, V. 2014. Integrated nutrient management. *Kerala Karshakan e-journal*. **1** (9): 36-37.
- Om Prakash Gupta, Karnam Venkatesh, Ganapati N. Mukri, Abhijit Kumar Das, and Nagaraja, N. R. 2013. Biological Nitrogen Fixation in Cereals: Present Status and Future Prospects. *Agrobios Newsletter*. **12** (2): 84-85.
- Om Prakash Gupta, Karnam Venkatesh, Ganapati N. Mukri, Abhijit Kumar Das, and Nagaraja, N. R. 2013. Biogenesis and Mode of Action of Small RNA in Plants. *Agrobios Newsletter*. **12** (6): 15-16.
- Ravi, S and Muralidharan, P. 2013. Preparation of enriched straw. *Kerala Karshakan* **58**(9): 62-63.
- Ravindran, P. and Subaharan, K. 2013. Kombanchelliye thurathan paristhithi souhrida margangal. *Indian Nalikera J.* **4** (4): 35-36.
- Shareefa M., Rema, L. and Renjith, P. B. 2013. Njangal ilaneer thengukal. *Kerala Karshakan* **59** (5):28-29 (In Malayalam).
- Shareefa, M. and Remya, P. V.2013. Punarpuli-a promising fruit for fighting obesity. *Kerala Karshakan (e-journal)* **1** (4):35-37.
- Shareefa, M. and Thomas, R.J. 2014. Kuriya Thengukal- Vithu muthal thai vare. *Kerala Karshakan February Issue*: 20-22 (In Malayalam).
- Shareefa, M. and Thomas, R. J. 2014. The journey of a seed: Seed nut collection and nursery management. *Kerala Karshakan (e-Journal)*. **1** (9): 20-24.
- Sit, A. K., Roybarman, Jagadish and Rizal, S. K. 2013. Turmeric - A profitable intercrop in arecanut garden under sub Himalayan Terai region of West Bengal. *Indian J. Areca Nut, Spices and Medicinal Plants*, **15** (1): 31-34.
- Sit A. K., Roybarman, J and Rizal, S. K. 2013. Turmeric -A profitable intercrop in arecanut garden under sub Himalayan terai region of West Bengal. *Indian Journal of Areca Nut, Spices and Medicinal Plants*. **15** (3): 29-32 (In Hindi).
- Sivakumar, T. and Chandrika Mohan 2013. Occurrence of rhinoceros beetle, *Oryctes rhinoceros* L., on banana cultivars in Kerala Pest Management in Horticultural Ecosystems **19** (1): 99-101.
- Thamban, C. and Leena, S. 2013. Climbing coconut trees...past and present. *Indian Coconut J.* **56** (8): 7-9.
- Thamban, C. and Madhavan, K. 2013. Thenginte ulpanna vyvidhyavalkaranathiloode moolyavardhanavu. In: Sasi, M.S. (Ed.) Haritham souvenir. Association of Agricultural Officers, Kerala, Kozhikode. pp. 23-25 (In Malayalam).



Thamban, C., Jayasekhar, S., Chandran, K.P., and Muralidharan, K. 2014. Evolving tender coconut sector in Kerala: Need for upgradation in the value chain. *Indian Coconut J.* **56** (9): 16-21.

Thamban, C., Muralidharan, K., Ravikumar, N. and Amarnath, C. H. 2013. Videoconferencing for organising research-extension-farmer interface programmes. *Indian Coconut J.* **56** (7): 31-33.

Thamban, C. 2013. Kera samrakshana mekhalaile marunna kazhchakal. *Indian Nalikera J.* **4** (12): 19-21 (In Malayalam).

Thamban, C., Jayasekhar, S., Chandran, K.P. and Muralidharan, K. Ilaneer vepananavum moolya srinkhalayum Keralathil. *Indian Nalikera J.* **5** (1): 16-18 (In Malayalam).

Thomas, R.J. and Shareefa, M. 2013. Neera chethintte labha kanakku. *Karshakasree* **19** (11): 26 (In Malayalam).

Thomas, R.J. and Shareefa, M. 2013. Neera ulpadanam: Karshaka Anubhavangaliloode In: Neera: Thengil Ninulla Akshayanidhi, Remany Gopalakrishnan and Mini Mathew (Eds.), Coconut Development Board, Kochi pp.70-72 (In Malayalam).

Thomas, R.J., Shareefa, M. and Nair, R.V. 2013. Kattuvezcha rogapradirodha seshiyulla thenginagal. *Indian Nalikera J.* **4** (7): 15-17 (In Malayalam).

Thomas, R.J., Shareefa, M. and Nair, R.V. 2013. Varieties resistant to root (wilt) disease of coconut. *Indian Coconut J.* **54** (3): 32-34.

Thomas, R.J. and Shareefa, M. 2014. Promising dwarf varieties suited to the agro-climatic conditions of Kerala. *Kerala Karshakan* (e-Journal). **1** (9):15-19.

Review Article

Thomas, R.J. and Josephrajkumar, A. 2013. Flowering and pollination biology in coconut. *J. Plantation Crops* **41** (2): 109-117.

Book Chapter

Acharya, G.C. and Rabha Himadri. 2014. Pepper cultivation in non-traditional (Assam) area of India. In: Spices Handbook 2014. Published by Commodityindia.com. Foretell Business Solutions Pvt Ltd. Bangalore. pp 63-66.

ChandraMohan, R., Manimekalai, R. and Sharadraj, K. M. 2013. Coconut (*Cocos nucifera L.*). In: Advances in Horticulture Biotechnology: Diagnostics for horticultural crops. H. P. Singh, M. Anandaraj and A. I. Bhat (Eds.). Westville Publishing House, New Delhi-63. p. 342.

George V. Thomas, K.B. Hebbar, A.C. Mathew, M. Arivalagan and K. Samsudeen. Neerayude shastriya utpadanavum samskaravum. In: "Neera" Coconut Development Board, Kochi. 2013, pp 33.

George V. Thomas and Krishnakumar, V. 2013. Coconut Palm. In: Palms. Westville Publishing House, New Delhi. pp 9-65.

Hebbar, K.B., Balasimha, D. and G.V. Thomas. 2013. Plantation crops response to climate change: Coconut Perspective. In: Climate-resilient horticulture: adaptation and mitigation strategies by H.P. Singh, Srinivas Rao and Shivashankara K.S. (Eds.). Springer Publications. DOI 10.1007/978-81-322-0974-4_16, © Springer India 2013.

Hebbar, K.B. and Arivalagan, M. 2013. Climate change - Impact on Coconut Based Farming System. In: Training Manual on Coconut based Integrated Farming. Jan 2013, CPCRI, Kasaragod, Kerala. pp 127-134.



Leno, M., Mathew, R., Leenakumari, S., Muralidharan, P., Sajnanath, K., Indira, M., Vilasini, T.N., Savitha, K.S., Sreenish, S. and Sandhyadevi, C.D. 2013. Soil Fertility: Alappuzha District. In: Soil Fertility Assessment and Information Management for Enhancing Crop Productivity in Kerala (Eds) Rajasekharan, P., Nair, K.M., Rajasree, G., Sureshkumar, P. and Kutty, M.C.N., Kerala State Planning Board. pp 169-185.

Manimekalai R., Rajesh, M.K., and Manju, K.P. 2013. *Biotechnology and Genomics in Palms*, Westville Publishing House. pp 310-324.

Manimekalai, R., Smita Nair and Roshna, O.M. 2013. Diagnostics and Management Phytoplasma Diseases In: "Nanotechnology in Agriculture". Advances in Horticulture Biotechnology Vol VI. pp 177- 183.

Nair, K.M., Saifudeen, N., Suresh Kumar, P., Kutty, M.C.N., Susan John, K., Sudharmaidevi, R., Dinesh, R., Srinivasan, V., Indira, M., Leno, N., Muralidharan, P., Natarajan, P., Varghese, J.J., Oommen, M., Jayaraj, P., Suresh, P.R., Geetha, K., Moosa, P.P., Sujatha, M.P., Mini, V., Koruth, A., Abraham, K., Bushra, I., Geethakumari, Ajithkumar, R. and Rajasekharan, P. 2013. Fertility of Soils of Kerala. In: Soil Fertility Assessment and Information Management for Enhancing Crop Productivity in Kerala (Eds) Rajasekharan, P., Nair, K.M., Rajasree, G., Sureshkumar, P. and Kutty, M.C.N. Kerala State Planning Board. pp 136-168.

Hemalatha, N., Rajesh M. K., and Narayanan N. K. 2013. NACPred: computational prediction of NAC proteins in rice implemented using SMO algorithm. In: Advances in Computing, Communication and Control, Vol. 361, Srija, U., Sunil, S. and Deepak, B. (Eds.), Springer Berlin, Heidelberg, pp. 266-275.

Selvamani, V., Subramanian, P and Ravi Bhat. 2013. Plantation Agriculture for food security through scientific soil management. In: Proc. of the workshop on Managing Soils for Food Security and Climate Change Adaptation. 5th -Dec, 2013, Kottayam. Eds: Premachandran, P. N., Roshni G. C. and Anil M. Joseph. Published by Director, Department of Soil Survey & Soil Conservation, Government of Kerala. Pp.159-175.

Books

AICRP on Palms, 2013. Annual Report for 2012-13. All India Coordinated Research Project on Palms. Maheswarappa, H. P. and Krishna Kumar, V. (Eds.). AICRP on Palms, CPCRI, Kasaragod. 111 p.

CPCRI, 2013. Annual Report for 2012-13. Central Plantation Crops Research Institute. Niral V., Krishna Kumar V., Vinayaka Hegde, Jaysekhar S., John George and Muralikrishna H. (Eds.). CPCRI, Kasaragod. 142 p.

George V. Thomas, Manimekalai, R., Rajesh, M.K. and Subaharan, K. 2013. Abstracts. National seminar on Applications of Bioinformatics in Agriculture. Nov: 11-12, 2013 at CPCRI, Kasaragod. 76 p.

Singh, H.P., George V. Thomas and Krishnakumar, V. 2013. *Palms*. Westville Publishing House, New Delhi. p. 353.

Technical Bulletin

Acharya, G.C., Subramanian, P. and Shil Sandip. 2014. Scientific cultivation of arecanut in Assam (English). Technical bulletin No. 83. 20 p.

Acharya, G.C., Bora Debajit. and Kolita Balen. 2014. Scientific cultivation of arecanut in Assam (Assamese). Technical bulletin no 84. 20 p.

Basavaraju, T.B., Hanumanthappa, M., Prashanth, M., Devappa, V. and



- Maheswarappa, H.P. 2013. Coconut based cropping systems for maidan tract of Karnataka. AICRP on Palms, HRS, Arsikere. 25 p.
- George V. Thomas, and Thamban, C. 2013. Thengu krishi reethikal (Malayalam). Technical bulletin No. 77. Central Plantation Crops Research Institute, Kasaragod. 31 p.
- Muralidharan. P., Rajeev. M.S., Jissy George, Sivakumar. T., Lekha. G., Ravi. S. and Sajnanath. K. 2013. Imprints - A decade in service to farmers (2004 - 2013). Krishi Vigyan Kendra - Alleppey, CPCRI. 52 p.
- Sit, A. K., Acharya, G. C. and Maheswarappa, H.P. 2014. 50 Years Research Achievements of Central Plantation Crops Research Institute, Research Centre, Mohitnagar. 63 p.
- Thomas, R. J., Krishnakumar, V., Kalavathi, S., Josephrajkumar, A., Babu, M. and Muralidharan, P. 2013. CPCRI, Regional Station, Kayangulam - At a Glance, CPCRI, Regional Station, Kayamkulam, Kerala. Technical Bulletin No. 80. 18 p.
- Extension folder**
- Acharya, G.C., Chowdhury, B. and Das, N.C. 2014. CPCRI Research Centre, Kahikuchi : Achievements and activities. Extension folder No. 223.
- Acharya, G.C., Chowdhury, B. and Das, N.C. 2014. Achievements and activities. Extension folder No. 224 (In Assamese).
- Alagar, M., Jaganathan, D. and Subaharan, K. 2013. Integrated management of root grubs in arecanut, CPCRI, Kasaragod (Folder No. 207) (In Tamil).
- Chandrika Mohan and Anithakumari, P. 2013. Biological methods for management of rhinoceros beetle. Information booklet, CPCRI, RS, Kayamkulam. 10p (In Malayalam).
- Jeena Mathew and Krishnakumar, V. Integrated nutrient management in coconut. Extension Folder No. 222 (In Malayalam).
- Merin Babu, Kalavathi, S. 2013. Community based production of bio agents. Extension Folder No. 214 (In Malayalam).
- Merin Babu, Kalavathi, S. 2013. Leaf rot disease of coconut. Extension Folder No. 215 (In Malayalam).
- Nihad, K. 2013. Floriculture in coconut gardens. CPCRI Extension Folder No. 213 (In Malayalam).
- Prathibha, P.S., Subaharan, K. and Rajkumar 2014. Komban chelli samyojitha keeta niyanthranam. Extension folder No. 216 (In Malayalam).
- Prathibha, P.S., Subaharan, K. and Rajkumar 2014. Thengolappuzhu samyojitha keeta niyanthranam. Extension folder No. 217 (In Malayalam).
- Prathibha, P.S., Subaharan, K. and Rajkumar 2014. Chemban chelli samyojitha keeta niyanthranam. Extension folder No. 218 (In Malayalam).
- Prathibha, P.S., Subaharan, K. and Rajkumar 2014. Mandari-samyogitha keeta niyanthranam. Extension folder No. 219 (In Malayalam).
- Rajkumar, Subaharan, K. Prathibha, P. S. and Vinayaka Hegde 2013. Integrated management of coconut rhinoceros beetle, Extension folder No. 208 (In Kannada).
- Rajkumar, K. Subaharan, P. S. Prathibha and Vinayaka Hegde 2013. Integrated management of coconut red palm weevil, Extension folder No. 209 (In Kannada).
- Rajkumar, K. Subaharan, P. S. Prathibha and Vinayaka Hegde 2013. Integrated



management of coconut mite, Extension folder No. 210 (In Kannada).

Rajkumar, K. Subaharan, P. S. Prathibha and Vinayaka Hegde 2013. Integrated management of coconut leaf eating caterpillar, Extension folder No. 211 (In Kannada).

Rajkumar, K. Subaharan, P. S. Prathibha and Vinayaka Hegde 2013. Integrated management of root grub in coconut and arecanut, Extension folder No. 212 (In Kannada).

Shareefa, M. and Thomas, R. J. 2013. Quality planting material production in coconut for root (wilt) prevalent tract. Extension folder No. 220. CPCRI, Kayamkulam (In Malayalam).

Training Manual

George V. Thomas., Jaganathan, D., Nagaraja, N. R., Ananda, K. S., Ravi Bhat, Vinayaka Hegde, Rajkumar, Hebbar, K. B. and Thamban, C. 2014. Research-farmer-extension interface on coconut and arecanut- An effective strategy for bridging the knowledge gap. CPCRI, Kasaragod, 69 p.

Anitha Karun, Rajesh M.K., Jerard B.A., Amarnath C.H. and Samsudeen K. 2013. Training

manual of ICAR Short Course on 'Recent Advances in Conservation of Genetic Resources of Plantation Crops' held from 22-31 October, 2013, CPCRI, Kasaragod, Kerala. 339 p.

George V. Thomas, Rajesh, M.K. and Ramesh Kumar, M. P. 2012. Training Manual of DBT-funded training programme on 'Tools for Genetic Diversity and Mapping Analysis using Molecular Marker Data' held from 25-30 November, 2013, CPCRI, Kasaragod, Kerala. 112 p.

Thamban, C., S. Jayasekhar, Chandran, K. P. and D. Jaganathan. 2013. Participatory Technology Transfer Approaches for Plantation Crops. CPCRI, Kasaragod, Kerala. 198 p.

Thomas, R.J. and Shareefa, M. 2013. Manual on Selection of mother palms of dwarf varieties and hybridization technique in coconut. CPCRI, Regional Station, Kayamkulam, Kerala 45 p.

Compact Disc

Subaharan, K., Prathiba, P.S., Chandrika Mohan, Rajkumar and Amarnath, C.H. 2013. IPM of Coconut Pests. CPCRI, Kasaragod.

