



# CTRI News

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CENTRAL TOBACCO RESEARCH INSTITUTE, RAJAHMUNDRY-533 105, A.P.

## RESEARCH HIGHLIGHTS

- In the bulk evaluation trial at CTRI RS, Jeelugumilli, entries NLSH-1 (low tar hybrid) and JS 117 (low tar line) were found promising with 2,480 and 1,950 kg/ha cured leaf yield, respectively over check variety, Kanchan (CLY 1,950 kg/ha).
- In a replicated trial conducted over two years, two somaclones, NLCM(k) and NLCR-1-11-10 recorded significantly higher (31-26%) cured leaf yields over Kanchan.
- Three test hybrids, Siri x F-212, Siri x Bell-93 and Siri x NC-3150 were significantly superior to the best check variety Siri and other entries in respect of Green leaf, cured leaf, bright leaf yields and grade index at 5% level of significance. Leaf nicotine, reducing sugars and chlorides were in the desirable range.
- Among the three cropping systems tested, greengram – tobacco recorded less infestation of *Orobanche* than sesame- tobacco and sorghum- tobacco.
- B.t.k. can be sprayed in an aqueous solution with E.C. ranging from 0.5 to 6.0 dS/m and pH 7 for effective suppression of *S. litura* in tobacco nursery.

## XX TOBACCO WORKSHOP OF AINRPT

The XX Tobacco Workshop finalized the technical programme for 2011-12.

The XX Tobacco Workshop of AINRP(T) was held at CTRI, Rajahmundry on 30<sup>th</sup> September & 1<sup>st</sup> October, 2011. All the scientists from the fifteen AINRPT centres and other delegates from all over India participated and presented the research results of 2010-11 and

finalized the technical programme for 2011-12.

Three varieties viz., FCH-222 (FCV – Hunsur), VDH 3 (Chewing hybrid-Vedasan-dur) and Thungabhadra (Oriental-CTRI & VST) have been identified for release during the workshop.



Inauguration of the AINRPT Workshop by Dr. N. Gopalakrishnan, ADG (CC)



Dignitaries and delegates in the AINRPT Workshop

## NATIONAL SYMPOSIUM ON TOBACCO

Indian Society of Tobacco Science, Rajahmundry, India organized the XIV National Symposium on Tobacco from 20-22 December, 2011 with the theme "New Frontiers in Tobacco Science" at Central Tobacco Research Institute Rajahmundry, in association with Tobacco Board, The Indian Tobacco Association.

### Honours

In the inaugural function of the Symposium, the Society honoured the former Director, Dr. N.C. Gopalachari and Dr. V. Krishnamurthy with Lifetime Achievement Award to for their outstanding Scientific contributions to Indian tobacco.

### FISTS

Fellow of Indian Society of Tobacco Science (FISTS) was conferred on Dr. S. Amarnath Principal Scientist & Head, CTRI RS, Dinahata; Dr. T.S.Vageesh, Principal Scientist, ARS, Shimoga; Dr. K. Siva Raju, Principal Scientist, CTRI, Rajahmundry for their outstanding contributions to tobacco research and tobacco development.

### ISTS Award

ISTS award (Gold medal, cash and certificate) for outstanding research contributions during the triennium 2009-2011 was presented for the paper "Characteristics of seed oil and nutritional composition of seed

cake in Indian tobacco" by Dr. K. Sivaraju, Dr. C.V.Narasimha Rao & Dr. V. Krishnamurthy.

### Invited Lectures

Invited lectures were delivered by distinguished speakers on different topics:

- ❑ Emerging Trends in Tobacco Research - Dr. V. Krishnamurthy, Director, CTRI
- ❑ Indian Tobacco in Global Perspective - H.N.Ramprasad, ITC Ltd. – ABD-ILTD
- ❑ Cropping Systems for Sustainable Agriculture - Dr. V.S. Korikanthimath, (Former Director, ICAR Research Complex, Goa)
- ❑ Microorganisms for Sustainable Agriculture- Dr. V.R. Rao, Former Head, Division of Crop Production, CRRI, Cuttack
- ❑ Integrated Pest Management Eco-friendly Pest Management Strategies - Dr.T. Ramesh Babu, Professor & Head, Department of Entomology, ANGRAU, Hyderabad
- ❑ Molecular Approaches for the Plant Disease Management - Dr. N.P. Eswara Reddy, Assoc. Dean, College of Food Science & Technology, ANGRAU, Pulivendula.
- ❑ Emerging Trends in Tobacco Crop Improvement - Dr. T.G.K. Murthy, Head, Division of Crop Improvement, CTRI, Rajahmundry
- ❑ Innovative Tobacco Production Technologies - Dr. C.C.S. Rao, Head, Division of Crop production, CTRI, Rajahmundry
- ❑ IPM and Agrochemical Management in Tobacco - Dr. U. Sreedhar, Head, Division of Crop Protection, CTRI, Rajahmundry
- ❑ Management of Resource Constraints for Tobacco Production and Quality - Dr. D. Damodar Reddy, Head, Division of Crop Chemistry & Soil Science, CTRI, Rajahmundry
- ❑ Tobacco Crop Situation in KLS - Dr.C.P. Rao, Head, CTRI RS, Hunsur, Karnataka
- ❑ Tobacco Crop Situation in NLS - Dr.K. Nageswara Rao, Head, CTRI RS, Jeelugumilli, A.P.
- ❑ Bidi tobacco Crop Situation - Dr.A.D. Patel, Chief Scientist, BTRS, Anand, Gujarat
- ❑ Chewing tobacco crop situation in Tamil Nadu - Dr.A.V.S.R. Swamy, Head i/c, CTRI, RS, Veda sandur, Tamil Nadu
- ❑ Chewing and Hookah Tobacco Crop Situation in West Bengal - Dr.S. Amarnath, Head i/c, CTRI RS, Dinahata, West Bengal

A total of 117 presentations by Indian tobacco scientists covering different facets of tobacco research were arranged in the respective poster sessions. One Research paper from each session was selected for best Presentation Award.



Inauguration of the Symposium by G. Kamalavardhana Rao, Chairman, Tobacco Board



Release of Symposium Souvenir



Conferring Lifetime Achievement Award on Dr. N.C. Gopalachari

# TRANSFER OF TECHNOLOGY

## RESEARCH PUBLICATIONS

- ✧ Krishnamurthy, V., Y. Subbaiah and K. Suman Kalyani. Alternative crops to FCV tobacco in Andhra Pradesh. *Swarna Sedyam* 15(1):61-2, 2011.
- ✧ Panda, A.R., V. Krishnamurthy, I. Jagadish Chandra, K.C. Chenchaiah and L.K. Prasad. N-98 - Dakshinadi nelalaku anuvaina labhasati pogaku vangadam. *Swarna Sedyam* 15(1):40-1, 2011.
- ✧ Suman Kalyani, K., V. Krishnamurthy, C. Chandrasekhara Rao and N. Aruna Kumari. Role performance of tribal women in agriculture - A study in agency area of East Godavari district, Andhra Pradesh. *Journal of Dairying, Foods and Home Sciences* 30(3): 221-4, 2011.
- ✧ Suman Kalyani, K., V. Krishnamurthy and V.K. Jyothirmai. Cultivation of Backyard Kitchen for balanced diet and better family health. *Swarna Sedyam* 14(12):16-8, 2011.
- ✧ Suman Kalyani, K., V. Krishnamurthy and V.K. Jyothirmai. Samathula poshakaharaniki, kutumba aarogyani perati thotala pempakam. *Swarna Sedyam* 15(1):19-20, 2011.
- ✧ Suman Kalyani, K., V.V. Lakshmi Kumari. Fresh green leafy vegetables - Good source of nutrients. *Annadata* 43(10):75-7, 2011.

## CONFERENCES/ TRAININGS/ WORKSHOPS ATTENDED

- ◆ Dr. C.V. Narasimha Rao and Dr. K. Siva Raju, Principal Scientists have attended the Brain storming Session on 'High value Compounds/ Phytochemicals' at IISR, Calicut on 03.10.2011.
- ◆ Dr. U. Sreedhar, Head, Divn. of Crop Protection attended the 'XVI Management Development Programme in Agricultural Research' at NAARM, Hyderabad during 20-25<sup>th</sup> October, 2011.
- ◆ Dr. K. Prabhakara Rao, Scientist attended the training course on 'Molecular plant breeding in Crop Improvement' at ICRISAT, Hyderabad during 7-18 November, 2011.
- ◆ Dr. V. Krishnamurthy, Director, Dr. T.G.K. Murthy, HOD, Crop Improvement, Dr. C.V.N. Rao, Pr. Scientist and R. Sudhakar, Tech. Officer have attended the 'Innovations 4 Industry Meet in Crop Science' at NAARM, Hyderabad on 19.11.2011.
- ◆ Dr. K. Siva Raju, Pr. Scientist and Dr. M. Anuradha, Sr. Scientist have attended the National Seminar on 'Sustainable Crop Productivity through physiological intervention' at the Department of Life Science, Mumbai during 24-26 November, 2011.
- ◆ Dr. H. Ravisankar, Sr. Scientist attended the

Interaction meet with Scientists trained abroad in Frontier areas of Agricultural Sciences at NASC Complex, New Delhi during 28-30 November, 2011

- ◆ Dr. H. Ravisankar, Sr. Scientist attended the International Conference on 'Advanced Computing Methodologies' at GRIET, Hyderabad during 9-10 December, 2011.

## SEMINARS

- A Seminar on 'Alternative crops to FCV tobacco in Andhra Pradesh' was organised by Tobacco Board, Guntur during 19-20 Sept., 2011 at CTRI, Rajahmundry.
- A National Seminar on 'Alternative crops to FCV tobacco in Karnataka' was organized jointly by Tobacco Board, Guntur and CTRI, Rajahmundry at Mysore on 17.10.2011. Prof. Swapan K. Datta, DDG (CS), ICAR, New Delhi, Dr. V. Krishnamurthy, Director, CTRI, Sri C.V. Subba Rao, Executive Director, Tobacco Board, Smt. Manju Pillai, Director (Auctions), Sri P.S. Vastrad, Deputy Commissioner, Mysore, Sri H.C. Shivanna, Vice-Chairman, Tobacco Board, Sri D.M. Abu Mohammed, Sri V. Papanna and Sri B.M. Mahadeva, Members of Tobacco Board and Sri Y.A. Choudhary, Vice-Chairman, ITA attended the meeting.

## NATIONAL SEMINAR ON FLORICULTURE

A National Seminar on Floriculture was organized by the Directorate of Floriculture, New Delhi in collaboration with YSR Horticultural University, Venkataramannagudem at CTRI, Rajahmundry from 4-6 November, 2011.



Release of Souvenir by Dr. H.P. Singh, DDG (Horticulture), ICAR

## PERSONALIA

### RETIREMENTS

- Smt. Nunna Lakshmi, SSS, CTRI, Rajahmundry retired from Council's service on VRS on 15.10.2011.
- Sri G.N. Sanjeeva Rao, SSS, CTRI RS, Jeelugumilli retired from Council's service on 31.12.2011.

## DBT TRAINING PROGRAMMES

A total of eight training programmes were organized on paddy field crop management, IPM in paddy, drudgery reducing agricultural implements, value addition to minor forest produce, management and maintenance of biogas plants and *adda* leaf plate making under the DBT funded external project, "Empowerment of tribals through agro-ecological conservation and biotechnological approaches in E.G. district of A.P."

## VISITORS

- ✘ Fifty five final year students of Agricultural Polytechnic, RARI, Maruteru, West Godavari District of A.P. visited CTRI on 21.10.2011 as a part of their study tour and with tobacco production technologies were explained. They were also taken around the museum, tobacco nurseries, soil testing and plant protection laboratories. Dr. I. Sudhir Kumar, Asst. Professor and Dr. N. Mallikarjuna Rao, Sr. Scientist (Entomology) accompanied the students.
- ✘ Dr. Ashok Gulati, Chairman, Commission for Agricultural Costs and Prices (CACP) and Dr. Ashok Vishandass, Member, CACP visited CTRI on 21.10.2011 and interacted with the scientists of CTRI.
- ✘ Thirty five Post graduate students from Andhra Layola College Vijayawada visited CTRI on 02.12.2011 to know the biotechnological aspects. Scientists of biotechnology explained tissue culture and biotechnological activities that are being carried out at the Institute. They were also explained about the principle and applications of different equipment available in Biotechnology laboratory. Students witnessed the practical demonstration on major steps in DNA extraction, Polymerase Chain Reaction (PCR) and Gel Electrophoresis. They were also exposed to various research activities being conducted at different laboratories in the Institute.

## KRISHI VIGYAN KENDRA

- ✘ CTRI KVK being one of the FET centres of NAARM, Hyderabad, 8 ARS trainees attended FET training at KVK, Kalavacharla in November, 2011.
- ✘ KVK participated in Zonal Technology Management & Business Process Development Meet of South zone at Hyderabad during 17-18 Nov., 2011.
- ✘ SMSs in Crop Production and Home Science participated in the T&V monthly meeting of Department of Agriculture at Kakinada on 26.11.2011.
- ✘ Pulse production was implemented with 30 demonstrations in 30 acres by KVK in different mandals of East Godavari district.
- ✘ Programme Coordinator, SMSs of Crop Production and Rural Crafts participated in the National Conference of KVKs held at JNKVV, Jabalpur from 3-5 Dec., 2011. and presented the activities of CTRI-KVK, East Godavari.
- ✘ The Scientific Advisory Committee (SAC) meeting of KVK was held at Kalavacharla on 14.10.2011.



KVK SAC Meeting - Dignitaries on the dais