

# COTTON *Innovate*



Weekly Newsletter from Central Institute for Cotton Research, Nagpur

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## Meetings Attended

Dr. K.R. Kranthi, Director, CICR, Dr. D. Monga, Head, CICR, RS, Sirsa and Dr. Blaise Desouza, Head, Division of Crop Production attended an Interaction meeting with Nigerian Delegation under the Chairmanship of Dr. J. S. Sandhu, DDG (CS) at NBPGR, New Delhi on April 20, 2015.

Dr. K. R. Kranthi, Director, CICR, Dr. Sandhya Kranthi, Head, Division of Crop Protection, Dr. Blaise Desouza, Head, Division of Crop Production and Dr. M. V. Venugopalan, Head, P.M.E. Unit attended the BCI Workshop and shared information and technologies with the Stakeholders about the HDPS cotton and the better cotton management practices on April 22, 2015.

## Trainings

Agrowon (Sakal edition) organized farmers training programme at village Kanholibara (Hingna district, Nagpur) on 20<sup>th</sup> April, 2015 where 95 farmers attended this programme. Dr. R. B. Singandhupe, Principal Scientist, (Agronomy) addressed the farmers of Kanholibara and nearby villages on Cotton Production Technology and related issues for improvement of their farm income. In this programme progressive farmers and Sarpanch of Gram Panchayat Kanholibara, actively participated in discussion and their queries were resolved.

Dr. R. B. Singandhupe delivered lecture on Cotton Production Technology (HDPS) to twenty State Government Officials of Agriculture Department, Maharashtra on April 24, 2015. This programme was organized by Vasantrao Naik State Agricultural Extension Management Training Institute (VANAMATI) at Nagpur.

Fifteen cotton growing farmers of Mohgaon, Dist-Mandla, M. P. visited CICR, Nagpur on April 24, 2015 and information on cotton production technologies and other related subjects was provided to them. This exposure visit was organized by Village Agriculture Development Officer, Mohgaon, and Dist-Mandla under 'Mukhya Mantri Kheti Tirtha Abhiyan' run by M.P. Government.

## Literature Scan

### **Malignant worms: what cancer research can learn from *Caenorhabditis elegans*.**

Saito RM and Van den Heuvel S.

Massachusetts General Hospital Cancer Center, Building 149, 13th Street, Charlestown, MA02129, USA.

Developmental processes in the nematode *C. elegans* are controlled by pathways of gene functions that are analogous to those used in mammals. Hence, genetic studies in *C. elegans* have helped build the frameworks for these regulatory pathways. Many homologs of human genes that are targets for mutation in cancer have been found to function at distinct steps within such genetic pathways. This way, studies in *C. elegans* have provided important clues about the functions of human oncogenes and tumor suppressors. Understanding how human cancer genes function and act in signaling cascades is of great importance. This information reveals what kind of molecular changes contribute to the process of cell transformation. Moreover, additional candidate oncogenes and tumor suppressors may be revealed by identifying the functional partners of genes with an established role in cancer. Furthermore, identifying a cascade of gene functions increases the number of potential targets for therapeutic intervention, as blocking either one of multiple genes may interfere with signal transduction through the pathway. Simultaneous approaches in a number of different model systems act synergistically in solving pathways of gene functions. By using multiple models, the field takes advantage of the strengths of each system and circumvents its limitations. As one of the most powerful genetic animal systems, *C. elegans* will continue to reveal new mammalian signaling components. In addition, now that the *C. elegans* genome sequence has been completed, an increasing number of researchers are likely to discover homologs of human disease genes in the nematode and to analyze gene function in the worm model. Combined with the great potential of this animal in drug screens, it is simple to predict that *C. elegans* will worm its way deeper and deeper into cancer research.

### **Reference:**

Saito R.M. & van den Heuvel S. (2002) *Cancer Invest.* 20(2):264-75.

# 'कपाशी उत्पादनवाढीसाठी जागरूकता आवश्यक'

जमिनीची योग्य मशागत, माती परीक्षण, देशी सुधारित वाणांचा वापर, लागवडीचा योग्य कालावधी, लागवडीतील योग्य अंतर, पाणी व्यवस्थापन, एकात्मिक खत व कीड-रोग व्यवस्थापन अशा सुधारित पद्धतींचा अवलंब कपाशीची एकरी उत्पादकतावाढीस पूरक ठरतो, असे प्रतिपादन केंद्रीय कापूस संशोधन केंद्राचे तज्ज्ञ डॉ. आर. बी. सिंगनधुपे यांनी केले.

कान्होलीबारा (ता. हिंणगा, जि. नागपूर) येथे 'अॅग्रोवन' चर्चासत्रात ते बोलत होते. सरपंच आरती पुरुषोत्तम कुकडे या कार्यक्रमाच्या अध्यक्षस्थानी होत्या. उपसरपंच सुनील गव्हाळे,

कृषी सहायक प्रशील जिभकाटे, अरुण आदमणे, श्रेयश बाणाबाकोडे, आनंद बावणे, रमेश तोटे, पुरुषोत्तम तोटे, नागसेन पाटील, रमेश रामटेके, सदाशिव निमसडे यांच्यासह मान्यवर व शेतकऱ्यांची या वेळी उपस्थिती होती. डॉ. सिंगनधुपे यांनी कापूस व्यवस्थापनातील बारकावे शेतकऱ्यांना समजावून सांगितले. मोहित अॅग्रो इंडस्ट्रीजचे पीक संरक्षण तज्ज्ञ कमलेश झोडे यांनीही उपस्थित शेतकऱ्यांना कापूस लागवड ते काढणीपर्यंतच्या प्रत्येक टप्प्यावरील व्यवस्थापनाविषयी माहिती दिली. अॅग्रोवन प्रतिनिधी रूपेश बंडे यांनी प्रास्ताविक केले. सुनील गव्हाळे यांनी आभार मानले.



कान्होलीबारा, जि. नागपूर : अॅग्रोवन चर्चासत्रामध्ये मार्गदर्शन करताना डॉ. आर. बी. सिंगनधुपे.

## New Scientist joined CICR



Dr. D V. Patil, Senior Scientist (Plant Breeding) joined at CICR Nagpur on April 21, 2015 consequent upon transfer from National Institute of Abiotic Stress Management, Malegaon, Baramati, Pune District.

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