



# ज्वार अनुसंधान निदेशालय

## Directorate of Sorghum Research

### घटनाक्रम तथा समाचार Happenings & News



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#### Seminar by Dr. Gurmukh Johal, USA

As part of the efforts to increase interactions among researchers an invited lecture was organized at DSR on 20th October, 2011. Dr. Gurmukh Johal, Professor



*Dr. Gurmukh Johal delivering a seminar on "A MAGICal forward genetic approach to detect, harness and characterize functional variation present naturally in plants".*

of Genetics, Department of Botany & Plant Pathology, Purdue University, USA delivered a seminar on "A MAGICal forward genetic approach to detect, harness and characterize functional variation present naturally in plants". Scientists and students from DSR and other sister institutes of ICAR at Rajendranagar participated

#### समाचार सारांश

#### डॉ. गुरमुख जोहल, सं.रा.अ. द्वारा व्याख्यान

निदेशालय द्वारा अनुसंधाताओं में परस्पर विचारों के आदान-प्रदान हेतु 20 अक्टूबर 2011 को एक व्याख्यान का आयोजन किया गया। डॉ. गुरमुख जोहल, प्रोफेसर, आनुवंशिकी, वनस्पति विज्ञान एवं पादप रोगविज्ञान विभाग, परड्यु विश्वविद्यालय, संयुक्त राज्य अमेरिका ने ए मैजिकल फारवर्ड जेनेटिक अप्रोच टू डिटेक्ट, हारनेस एंड कैरेक्टराइज फंक्शनल वेरिएशन प्रजेंट नेचुरली इन प्लांट्स विषय पर व्याख्यान दिया। निदेशालय तथा राजेन्द्रनगर स्थित भाकृअनुप संस्थाओं के वैज्ञानिकों तथा छात्रों ने उक्त व्याख्यान में भाग लिया।

डॉ. जोहल के साथ परड्यु विश्वविद्यालय से डॉ. स्टीव हैल्लेट ने भी संस्थान का दौरा किया। उन्होंने मूल्य संवर्धन प्रयोगशाला तथा जैवप्रौद्योगिकी प्रयोगशाला का निरीक्षण किया तथा वहां जारी प्रगति की सराहना की। उन्होंने भारत व विदेशों में ज्वार की विभिन्न संभावनाओं पर संस्थान के निदेशक डॉ. जे वी पाटिल व अन्य वैज्ञानिकों के साथ विचार-विमर्श किया।

#### तेनाली में पत्रकार सम्मेलन

आंध्र प्रदेश राज्य के कृषि विभाग ने ज्वार अनुसंधान निदेशालय के संयुक्त तत्वावधान में 18 अक्टूबर 2011 को गुंटूर ज़िले के तेनाली ग्राम में एक पत्रकार सम्मेलन का आयोजन किया। उक्त सम्मेलन में पत्रकारों व मिडिया वालों के अलावा कुछ प्रगतिशील किसानों एवं राज्य सरकार के

पदाधिकारियों ने भी भाग लिया । डॉ. बी सुब्बारायुडु, वरिष्ठ वैज्ञानिक, ज्वा.अनु.नि. ने तेनाली में आयोजित किए जाने वाले आगामी कार्यक्रमों के संबंध में जानकारी प्रदान की । श्रीमती ज्योति रमणी, सहायक निदेशक कृषि, श्रीमती अमला कुमारी, कृषि अधिकारी, श्री जेट्टी सांबशिव राव तथा श्री ई. पुरणचंद्र प्रसाद, प्रगतिशील किसानों ने भी सभा में उपस्थित कृषकों को संबोधित किया ।

### एम.पी.के.वी-राहुरी में डस परीक्षण का निरीक्षण

एम.पी.के.वी. राहुरी के द्वारा 9 अक्टूबर 2011 को ज्वार डस परीक्षण के निगरानी कार्यक्रम का आयोजन किया गया । निदेशालय से डॉ. जे वी पाटिल, निदेशक, डॉ. एम एलंगोवन, नोडल अधिकारी, डॉ. वी रवि कुमार, श्री पी सुरेश तथा श्री आर एस मीणा ने ज्वार डस क्षेत्र का दौरा किया । डॉ. सैन दास समिति के अध्यक्ष थे ।

**हिंदी सारानुवाद : डॉ. महेश कुमार**

in the seminar. The speaker emphasized that the functional diversity in nature largely remains underutilized because of its hidden nature that surfaces only under specific environmental conditions



*Novel food products being shown to the visitors*

or in specific genetic backgrounds. The group has devised a simple and extremely effective genetic approach to scan through the large amount of natural variation to identify, map and clone versions of genes important for the control of specific, agriculturally useful traits. This approach is named as Mutant-Assisted Gene Identification and Characterization

(MAGIC). MAGIC uses Mendelian mutants and reveals variation created by nature over millions of years of evolution. The speaker focused his lecture on how MAGIC was conceived and how it works in maize to unravel and enrich the genetic architecture of the hypersensitive response.

Along with Dr. Johal, Dr. Steve Hallet from Purdue University also visited the Directorate on Oct 20, 2011. They have seen the Value Addition lab and Biotechnology lab and appreciated the progresses being made in these regard. They discussed with the Director JV Patil and other scientists on prospect of sorghum in India and abroad.

### Press meet at Tenali

A "Press meet" was organized by AP State



*Director, DSR addressing the gathering (top) and Dr. Subbarayudu emphasizing on the cultivars to be used in rice fallows (Middle)*

Agriculture Department in collaboration with DSR, at Tenali town in Guntur district on October 18, 2011. Besides press and media personnel, this meet was attended by several progressive farmers and state government officials. Dr. B Subbarayudu Senior Scientist from DSR, Hyderabad briefed the media about the forthcoming farmer's day and Rally to be organized at Tenali on 4th November, 2011. He also informed the motto behind organizing this rally is to motivate farmers towards sorghum cultivation in rice fallows of Guntur district especially in Tenali division and educate the farmers about the new cultivars suitable for rice fallows, management of sorghum diseases, package of practices to be followed for getting higher yields, and the value-added products of sorghum. Smt. Jyothi Ramani, ADA, Smt. Amala Kumari, Agricultural Officer, Sh. Jetti Sambasiva Rao and Sh. E. Purnachandra Prasad, progressive farmers also addressed the farmers.

### DUS testing monitoring at MPKV – Rahuri

Sorghum DUS test monitoring was conducted by



MPKV – Rahuri on 9th October 2011. Dr JV Patil, Director, Dr M Elangovan, Nodal officer, Dr V Ravikumar, Sri P Suresh and RS Meena from DSR

visited the sorghum DUS field. Dr Sain Dass was the chairman of the committee. Dr Shelar, Nodal Officer at Rahuri briefed on the experiment. During the deliberations in the field the following decisions



Field visits during the DUS monitoring at the MPKV research farms

were taken to submit as the recommendation to the PPV&FRA. The kharif/rabi varieties should be evaluated during the same season. The best reference variety must be selected based on the maximum frequency of essential traits as claimed trait. The uniformity of the candidate hybrid variety is very important than the expression of the claimed trait. A separate DUS trail may be conducted for varieties / hybrids / parental lines. The DUS test plot design of sorghum may be revised to 4m (row length) x 4 (rows) x 0.6m from the existing 6m (row length) x 6 (rows). However, four replication may remain same.

### Meetings (M)/ Workshop (W) Conference (C) attended

S. No	Name of the Official	Participated in	Type	Venue	Dates
1	D Balakrishna	Seminar on "Global Biosafety Management Program- Approach to Product Development and Regulation" organized by the Sathguru Management Consultants, Hyderabad and Cornell University, USA.	S	Hotel Royal Orchid, Jaipur	3-5 Oct, 2011
2	D Balakrishna	National consultations meet on GM food crops organized by ICAR.	M	NRCPB, New Delhi	14 Oct, 2011

## Official Tours

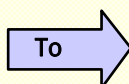
S. No	Name of the Official	Place Visited	Dates	Purpose
1	JV Patil	Mahabaleshwar	28-31 Oct, 2011	To organize cold tolerance evaluation at Mahabaleshwar

### Thought for the month

Life has no smooth road for any of us; and in the bracing atmosphere of a high aim the very roughness stimulates the climber to steadier steps, till the legend, over steep ways to the stars, fulfills itself.

W. C. Doane

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