

# COTTON *Innovate*



Weekly Newsletter from Central Institute for Cotton Research, Nagpur

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## LITERATURE SCAN

### Glucosinolate-free seeds for protein rich cattle feed

Glucosinolates are the main secondary, sulphur-containing metabolites found in Brassica crops. They defend against fungal and bacterial attacks. Some glucosinolates, in broccoli for example, are desirable. Rape, however, forms a glucosinolate that is harmful to ingest in large quantities for most animals. This means that the protein-rich rapeseed cake can be used for animal feeds only to a limited extent. Professor Barbara Ann Halkier, Head of the Center of Excellence for Dynamic Molecular Interactions (DynaMo) at the University of Copenhagen's Faculty of Science and her team has developed an entirely new technology termed as 'transport engineering' to eliminate unwanted substances from the edible parts of crops. These researchers have uncovered two proteins responsible for transporting glucosinolates into the seeds of the thale cress plant, a close relative to the rapeseed plant and thale cress plant produced without these two proteins had seeds completely glucosinolate free and therefore suitable for animal feed.

#### Reference

Hussam Hassan Nour-Eldin, Tonni Grube Andersen, Meike Burow, Svend Roesen Madsen, Morten Egevang Jørgensen, Carl Erik Olsen, Ingo Dreyer, Rainer Hedrich, Dietmar Geiger & Barbara Ann Halkier (2012) NRT/PTR transporters are essential for translocation of glucosinolate defence compounds to seeds. : *Nature* : DOI: doi:10.1038/nature11285

Contributed by Dr. M. Saravanan, Scientist, Plant Breeding and Genetics, CICR, Nagpur

## MEETINGS



Webcasting of 'Launch Programme of NET - 2014' by ASRB was viewed by all the Scientists of CICR, Nagpur from 3.00 to 3.45 pm on 25/3/2014. Dr. S. Ayyappan, Director General, ICAR, inaugurated the Launch programme. Dr. Gurbachan Singh, ASRB Chairman, Dr. D. Rama Rao, National Director, NAIP, Dr. P. S. Pandey, National Co-ordinator-Component-I, Dr. S. K. Bandopadhyay, Dr. V. N. Sharda, members, ASRB, Dr. P. K. Jain and Dr. A. P. Rukil were present. ASRB online examination is launched across the country in 23 nodal centres including 21 ICAR institutes and 2 State Agricultural Universities for 55 disciplines with 18,325 candidates appearing this year. CICR, Nagpur is one of the nodal centres with Dr. K. R. Kranthi, Director CICR, as CCPI, Er. Gautam, Majumdar as Nodal Officer, Dr. Blaise Desouza, Head, Crop Production Division as Centre Supervisor and Mrs. Mukta Chakrabarty, Scientist, as Assistant Centre Supervisor. The ASRB online NET-Examination is being held at the centre from 26/3/2014 to 4/4/2014.

## ONE DAY WORKSHOP IN HINDI

One day workshop in Hindi was organized at CICR Nagpur on 29/3/2014. Dr. Sandhya Kranthi, Director I/C & Head, Crop Protection Division inaugurated the function. Dr. Nandini Bhattacharya .Sahu, Archaeological Survey of India, delivered a lecture on "The discovery of Rock Paintings at Gavilgarh Hills". In her talk, Dr. Nandini explained about ancient paintings and carvings on rock shelters and caves found in Gavilgarh hills near Betul, Madhya Pradesh. According to her, the paintings were similar to the paintings of Gond tribes and the paintings in Gavilgarh might belong to ancestors of the tribe. Mr. Rajanikant Chaturvedi, Convenor, Hindi Cell, proposed the vote of thanks.



## FAREWELL

Mr. Vasant Dokrimare, T-1, Crop Protection Division, was accorded warm farewell by Division of Crop Protection and ICAR-CICR Staff Welfare Club on 29/03/2014.



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