



ICAR-IASRI



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- Awards and Recognition
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From Director's desk.....

This Newsletter highlights salient research achievements, training programs conducted, workshops organized and other significant activities performed at the Institute during the period under report.

A team of scientists from Junagarh Agricultural University, Gujarat and ICAR-IASRI, New Delhi has successfully sequenced, for the first time in the world, stem not fungal genome (~73Mb) and identified 16830 genes (Published in <https://www.nature.com/articles/s41-017-05478-8>). This finding will pave the way of genome based solution especially in new generation fungicide designing for stem not disease management leading to better productivity of groundnut crop in tropical region of world.



An attempt was made to investigate the structure of long memory in daily wholesale price of mustard in Mumbai market. Estimation of long memory parameter of ARFIMA model were modelled and forecasted using ANN. Finally, forecasted values obtained from ARFIMA model and forecasts of residuals obtained from ANN were combined and forecasting accuracies were compared between ARFIMA and hybrid model. Experimental study justified the superiority of the proposed hybrid model over ARFIMA model in terms of several measurement indices.

A Mobile App for Animal Reproduction (*PashuPrajananApp*) has been designed and developed in collaboration with ICAR-IVRI. The Mobile App additionally provides information for proper heat detection and Artificial Insemination (AI) so as to promote AI among farmers. The Mobile App helps in creating awareness and educating Livestock owners/ Entrepreneurs to deal with various reproductive problems of large animals.

Scientists of the Institute have received various awards e.g. Netaji-Subhas-ICAR International Fellowship, G R Seth Memorial Young Scientist Award and Krishi Vigyan Gourav Award of 2017. One scientist visited Myanmar for FAO consultancy. An International training programme was organized at the Institute during 22 November - 12 December, 2017 for the participants from African-Asian Rural Development Organization (AARDO) member countries. Four other training programmers and one Hindi Workshop were also organized.

During the period under report, the Institute have received two Copyrights viz. MAPI-android-App (Mobile Assisted Personal Interview) and Data Entry Software for estimation of harvest and post-harvest losses of crop/commodities. 71st Annual Conference of the Indian Society of Agricultural Statistics was organized at ICAR-Directorate of Rapeseed-Mustard Research, Bharatpur during 25-27 November, 2017.

The Institute team participated in ICAR Central Zone Sports meet held at ICAR-CIAE, Bhopal during November 09-13, 2017. Scientists of the Institute have provided Consultancy/Advisory services and participated in different Conference/Symposia/Workshop etc. in various capacities and also delivered invited lectures.

It is hoped that the contents of the document would be informative and useful. Any suggestion for improving the contents of the newsletter further would be highly appreciated.

(A.K. Choubey)