



ICAR-IASRI



NEWS

Volume 22

No. 2

July - September, 2017

- Research Activities
- Human Resource Development
- Awards and Recognition
- Panorama of Activities
- Publications
- Lectures Delivered
- Participation
- Consultancy/Advisory Services
- Personnel

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.

Irrigation has a significant impact on the level of agricultural growth and development of any district. Under the project "Growth and Decomposition of Agricultural Production in Rajasthan", it is observed that the proportion of irrigated area to net sown area is very small, which is a major obstacle in agricultural development in the state. Therefore, efforts are needed to intensify by the Government to increase the irrigation facilities. Efforts should be made to increase productivity of crops, area under forest and livestock rearing.



Under the project "Discovery of Herbicide resistance genes for Better Chickpea Variety Development", candidate genes and pathways of herbicide tolerance in chickpea has been reported for the first time in the world by the ICAR scientists and has been published in reputed Journal (<http://journal.frontiersin.org/article/10.3389/fpls.2017.009581full>). Two chickpea varieties viz. herbicide susceptible (ICC5434) and tolerant (ICC1205) genotypes were exposed to imidazoline (Imazethapyr). It is found that reported differentially expressed genes (EDGs) can be used as genomic resources for future discovery of candidate genes associated with herbicide tolerance and reported markers can be used for future association studies in order to develop marker assisted selection (MAS) for refinement. This can improve productivity of chickpea germplasm with better ecology and food safety.

Annual Day of the Institute was celebrated on 3rd July, 2017 in which Dr. NS Rathore, DDG (Education), ICAR delivered the Nehru Memorial Lecture on Agriculture Education in India. Teachers Day was celebrated on 5th September, 2017 in which Dr. R.K. Pandey, Ex-Director, IASRI was honored. Hindi Pakhwada (01 to 14 Sept., 2017) and Swatches Bharat Abhiyan were also celebrated. Many scientists of the Institute have received various awards e.g. ICAR Lal Bahadur Shastri Outstanding Young Scientist Award, MK Bose Award, Young Scientist Award, SERS Computational Biologist Award, Nehru Memorial Gold Medals for 2014-16. Some scientist have visited Addis Ababa, Ethiopia; Cali, Colombia and Rome, Italy.

Seven training programmes and one Hindi Workshop have been organized. Under the period under report, 6 new projects were initiated and the scientists of the Institute have published 32 research papers, 11 popular articles. One Agricultural Research Data Book, 03 research project report, 07 manuals/e-manuals/pamphlets, 01 Brochures and developed 3 packages. 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 to scientists in NARES. Any suggestion for improving the contents of the newsletter further would be highly appreciated.

(A.K. Choubey)