

# PARB NEWSLETTER

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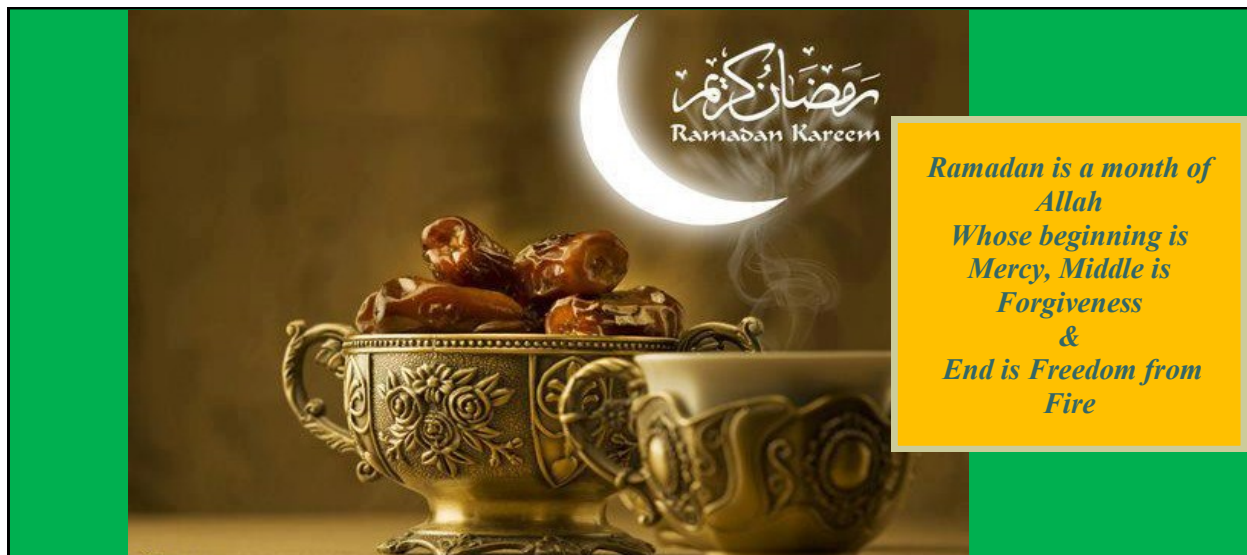
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## Farmer's Day in a PARB's project

A farmer's day on nematode problem and its bio control was organized by Department of Plant Pathology, University of Agriculture, Faisalabad under PARB funded Project "**Biological management of root knot nematodes on vegetables in Punjab**" on JK Farms Chak Jhumra, Faisalabad on June 10, 2012. Prof. Dr. Nazir Javed (Project Manager) briefly demonstrated the nematode problems of vegetables and their effective bio control through Pasteuria root powder.. The awareness to growers was delivered through charts, diagrams, models and preserved samples while fresh samples from research trial were also shown from treated and untreated plots. This demonstration to vegetable growers was very helpful to understand the nematode problems of vegetables, exchange of ideas, experiences and strengthening the networks between farmers and researchers.



*Ramadan is a month of  
Allah  
Whose beginning is  
Mercy, Middle is  
Forgiveness  
&  
End is Freedom from  
Fire*

**IMPACT OF CLIMATE CHANGE ON CROP PRODUCTION AND ITS MANAGEMENT**

The site-specific situations of climate change on the basis of daily time scale were made to use weather generator in combination with crop growth models. These models can easily be adjusted and used in all type of research as well as academics. There are several techniques for improving low yield losses and to get maximum yield of all major field crops including wheat, maize, cotton, sugarcane, rice etc. In this consideration, the farmers should optimize their management practices for changing climatic and atmospheric conditions by adapting different ways, e.g, bringing change in the sowing date or to a variety/cultivar best suited to a growing season through modeling. The adaptive strategies can be used to improve yields or to maintain current production levels in case of major and minor crops under changing climate scenarios. These can be used for better crop management and to obtain maximum crop production. It gives out to measure different types of issues such as the spatial scale of climate scenarios matters when scheming changes in different field crop yields. These changes in crop yield forecasts noticeably different economic impressions when employed in an agricultural economic model for the benefit of farming community. Moreover, many scientists investigated that there are different ways of the changing atmosphere with patent effects on all agricultural ecosystems consist of; increasing global/regional climate change, increasing CO<sub>2</sub>, and regional O<sub>3</sub> pollution. These must be included in the research plan by the related agricultural research institutes in comprehensive manner. Equipment's pool must be available in research institutes, from where, research stations located in remote areas can be facilitated to get comprehensive site specific valid results. Subsequently, the results of such type of research must be communicated to farming community in easiest, understandable, appropriate and effective way.



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## **Training will polish researchers'**

### **abilities: UVAS VC**

The University of Veterinary and Animal Sciences (UVAS) Vice Chancellor Prof. Dr. Talat Naseer Pasha inaugurated the three-week biostatistical summer research camp on **“Developing Research Plan & Proposal”**. He said that this workshop will hone skills and expertise of professionals and a great opportunity for young researchers to overcome their deficiencies especially in project making, research paper and interpretation of research results to determine its impact on animal population as well as human community. It would also help to assess the success of new innovation in applied fields.



## Progress of PARB's Projects

### Project: Standardization and popularization of Direct Seeding to increase rice productivity and resource conservation”

**Objective:** To increase profitability of rice per unit area through water saving and increased productivity

**Cost:** Rs. 13.908 million

**Project Duration:** 36 months

**Project Strategy:** Exploring different agronomic practices for better production of rice with direct seeding, less water and labor and use of post emergence herbicides

**Project Success:** The standardization of the technology in terms of seed operations like soaking and drying, seed rate, number and intensity of irrigation, weedicide and variety for DS technology has successfully been completed at Rice Research Institute Kala Shah Kaku ( RRIKSK).



### Project: Integrated Pest Management ( IPM) of Aphids on Wheat Crop

**Objective:** To develop an effective strategy based on Best Agricultural Practices for Aphid Management on wheat crop

**Cost:** Rs. 44.534 Million

**Project Duration:** 48 Months

**Project Strategy:** Management of wheat aphid through agronomic measures and resistant varieties

**Project Success:**

1. Three lines of Brassica intercropped in wheat and the best practices are:

- After every 100ft( 4 kanals) distances
- A compact block of 1 kanal after every 400 ft ( 2 acres) distance

2. Spray cold water with “ Solo Power Sprayer” when aphid population approaches Economic Threshold Level( ETL)

3. Timely application of balanced fertilizers i.e; N:P:K:69:46:25

4. Timely sowing of wheat crop up to 20th Nov



## TWG MEETING

A Technical Working Group (TWG) meeting on a project “**Exploring the nature and dimensions of the cotton seed provision system in Punjab**” was held under the Chairmanship of Chief Executive PARB Dr. Mubarik Ali. The Project Manager (PM) while briefing about the project said that in Punjab no authentic data is available to check the quality of seed, development of supply chain management, marketing prices, yield, productivity efficiency, seed availability and seed production system. The project is designed to resolve these issues so that farmers can get the best seed for their crop. After a detail discussion, Dr. Ali directed the PM to incorporate the recommendations of reviewers and resubmit the project for further process.



## Participation in International Events

*Funded by PARB*

Prof. Dr. Muhammad Asgher of UAF attended the “1st Biotechnology World Congress” held in Dubai. Dr. Asgher in his debriefing report told that the event provided opportunity to learn about modern scientific tools and techniques being applied in agriculture, industrial biotechnology, food security, biofuels and drug development. He said Pakistan has vast resources of agro-industrial residues which must be utilized for the production of industrial enzymes and biofuels through sustainable biotechnological processes.

Dr. Zia-udiDin Sindhu Assistant Prof. UAF attended the 4th International Conference on “Drug Discovery and Therapy” held in Dubai. He said that besides screening of natural products for parasite control, efforts should also be focused on isolation and identification on active ingredients. He suggested that Pakistani young scientists must have access to modern equipment in public sector universities. “Research organizations should also provide funds to purchase equipment in order to facilitate young scientists for better research and development activities” he added.

*This section truly reflects the views of scientists taken from their debriefing reports*

## Project’s Monitoring in Glimpse



Project on Backyard Poultry at University of Agriculture Faisalabad (UAF)



Development of local medicinal plants against insect pests of stored wheat at UAF



Development of Vaccine for Calf Diarrhea at University of Veterinary & Animal Sciences (UVAS) Lahore



Micro propagation of date palm through tissue culture at National Agricultural Research Centre (NARC) Islamabad