



# CRRI NEWSLETTER



**CENTRAL RICE RESEARCH INSTITUTE  
INDIAN COUNCIL OF AGRICULTURAL RESEARCH  
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**The CRRI Awarded the Sardar Patel Outstanding ICAR Institution Award 2008 for Outstanding Contribution in the Field of “Agricultural Research and Extension”**



**D**R T.K. Adhya, Director, CRRI received the Sardar Patel Outstanding ICAR Institution Award 2008 from Dr Farooq Abdullah, Hon'ble Union Minister of New and Renewable Energy, Government of India on 16 July 2009 at the ICAR Award Ceremony held in New Delhi. The CRRI was given the award in recognition of its outstanding contribution in improving the income and quality of life of rice farmers in India. The award consists of a citation, a shield and a cash prize. \*

Dr T.K.Adhya (below) receives the Award from Dr Farooq Abdullah, Hon'ble Union Minister of New and Renewable Energy, Government of India. Dr Mangala Rai, Secretary, DARE and Director-General, ICAR is on left and Shri A.K. Upadhyay, Special Secretary, DARE and Secretary, ICAR is on extreme right.



## A Glimpse from the Past: Pandit Jawaharlal Nehru visits CRRI



Right: The CRRI started functioning from this building in 1946 under the guidance of Dr K. Ramiah. Today the Farm Section and the Post Office function from this building.

all good wishes to the Rice Institute - first of its kind in India, in Asia and in the world - May it solve the problems that afflict us in regard to rice.

Jawaharlal Nehru

April 13, 1948



Ravi Viswanathan

### Rice Varieties Released by the CRRI

Variety	Year	Variety	Year
Upland ecosystem			
Bala	1970	Shakti	1973
Sattari	1980	Supriya	1973
Kalinga III	1983	Vani	1975
Neela	1985	Indira	1980
Annada	1987	Pallavi	1980
Heera	1988/	Sarasa	1985
	1991	Udaya	1985
Kalyani-II	1988	Kshira	1988
Tara	1988	Shaktiman	1990
Vanapratha	1988	Tapaswini	1996
Sneha	1992	Radhi	1996
Vandana	1992	Satabdi	2000
Dhala Heera	1996	Naveen	2005
Anjali	2003	Geetanjali (Aromatic)	2005
Sadabahar	2003	Rajalaxmi	2005
Hazaridhan	2003	(Hybrid)	2005
Virendra	2006	Ajay (Hybrid)	2005
Irrigated ecosystem			
Padma	1968	Abhishek	2006
Krishna	1970	Chandrama	2007
Ratna	1970	CR Dhan 10 (Satya Krishna)	2008
Vijaya	1970	CR Dhan 40	2008
Jayanti	1973	(Kameswari)	2008
Kalinga-I	1973	CR Boro Dhan 2	
Kalinga-II	1973	(Chandan)	2008

### ଓଡ଼ିଆ ରାଶୀରେ ଉପରେ କୌଣସି ଏହି ସେଇ କୋଟିଲା

ବାନ୍ଦିରେ	ବୀର୍ଜି	ବାନ୍ଦିରେ	ବୀର୍ଜି
>ମେଳିଶେ କେବଳ କେବଳ		ଦେଖିଲେ II	1973
ଫିଲ୍ଡ	1970	ମେଲୋ	1973
କେବଳ	1980	କେବଳ	1973
ଦେଖିଲେ III	1983	କେଲୋ	1975
କେଲୁ	1985	କେଲୁ	1980
କେଲୁ	1987	କେଲୁ	1980
କେଲୁ	1988/	କେଲୁ	1985
	1991	କେଲୁ	1985
କେଲୁ	1988	କେଲୁ	1988
କେଲୁ	1988	କେଲୁ	1990
କେଲୁ	1988	କେଲୁ	1996
କେଲୁ	1992	କେଲୁ	1996
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କେଲୁ	1996	କେଲୁ	2005
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କେଲୁ		କେଲୁ	2007
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କେଲୁ	40	କେଲୁ	2008
କେଲୁ	2	କେଲୁ	2008
		(କେଲୁ)	

## Rice Varieties Released by the CRRI

Variety	Year
Shallow rainfed lowland ecosystem	
Anamika	1979
Ramakrishna	1980
Samalei	1980
Savitri/ Ponmani	1982
Dharitri	1988
Padmini	1988
CR 1002	1992
Seema	1992
Pooja	1990
Ketekijoha (Aromatic)	2005
Nua Kalajeera	2008
CR Sugandh Dhan 3 (Nua Dhusura)	2008
Swarna Sub-1	2009

Variety	Year
Medium deep waterlogged ecosystem	
Utkal Prabha	1983
CR 1014	1988
Gayatri	1988
Kalasree	1988
Moti	1988
Panidhan	1988
Tulasi	1988
Sarala	2000
Durga	2000
Varshadhan	2005
CR Dhan 70 (Hanseswari)	2008
Coastal saline ecosystem	
Lunishree	1992
Sonamani	1996

## କ୍ରିଏଟିଭ ଇନ୍ଡସଟ୍ରି ଏବଂ ପ୍ରକାଶକ ମହିନେ ମୁଦ୍ରଣ କମିଶନ୍

Variety	Year
କ୍ରିଏଟିଭ ଇନ୍ଡସଟ୍ରି ଏବଂ ପ୍ରକାଶକ ମହିନେ ମୁଦ୍ରଣ କମିଶନ୍	1979
କ୍ରିଏଟିଭ ଇନ୍ଡସଟ୍ରି ଏବଂ ପ୍ରକାଶକ ମହିନେ ମୁଦ୍ରଣ କମିଶନ୍	1980
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କ୍ରିଏଟିଭ ଇନ୍ଡସଟ୍ରି ଏବଂ ପ୍ରକାଶକ ମହିନେ ମୁଦ୍ରଣ କମିଶନ୍	1988
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କ୍ରିଏଟିଭ ଇନ୍ଡସଟ୍ରି ଏବଂ ପ୍ରକାଶକ ମହିନେ 70	2008
କ୍ରିଏଟିଭ ଇନ୍ଡସଟ୍ରି ଏବଂ ପ୍ରକାଶକ ମହିନେ	2008
କ୍ରିଏଟିଭ ଇନ୍ଡସଟ୍ରି ଏବଂ ପ୍ରକାଶକ ମହିନେ	1992
କ୍ରିଏଟିଭ ଇନ୍ଡସଟ୍ରି ଏବଂ ପ୍ରକାଶକ ମହିନେ	1996

## The CRRI at Work



CRRI-RRS, Hazaribag



CRRI RRS



Ravi Viswanathan



Ravi Viswanathan



KVK Santarpur



Ravi Viswanathan



CRRI-RRS, Hazaribag



KVK Kodemba



P.C. Mohapatra



Left: Shri Sharad Pawar, Hon'ble Union Minister of Agriculture visited CRRI on 27 Dec 2004. Centre: Shri Rameswar Thakur, H.E. the Governor of Orissa was the Chief Guest at the CRRI Foundation Day on 23 Apr 2007. Right: Shri Naveen Patnaik, Hon'ble Chief Minister of Orissa has a look at the CRRI exhibits on 31 Oct 2007.

Dr Mangala Rai releases CRRI publications (left). A glimpse of the publications (right).



**INDEPENDENT**

**Assam 11/09**  
Scientists find answer for India – rice that doesn't have to be washed

A genetic breakthrough in rice has been announced by scientists in India. The new strain of rice, which has been developed by the Central Rice Research Institute (CRRI) in Orissa, is said to be resistant to flooding and can be washed once every three days.

Scientists say that the new strain of rice is more resistant to flooding than other varieties because it has a higher level of oxygen in its roots, which helps it survive longer in water.

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## The CRRI in the International and National Media

INTERVIEW SUJATHA, DIRECTOR, CENTRAL RICE RESEARCH INSTITUTE

**India has developed drought, flood and salinity-resistant rice varieties**



INTERVIEW SUJATHA, DIRECTOR, CENTRAL RICE RESEARCH INSTITUTE  
**India has developed drought, flood and salinity-resistant rice varieties**

Sujatha, Director, Central Rice Research Institute, Hyderabad, talks about the institute's work in developing new rice varieties and its impact on farmers across the country.

Q: What are the main challenges faced by Indian farmers in growing rice?

A: The main challenges faced by Indian farmers in growing rice include drought, flood, and salinity resistance. These factors can significantly reduce crop yields and affect the quality of the rice produced.

Q: How has CRRI contributed to addressing these challenges?

A: CRRI has developed several new rice varieties that are resistant to drought, flood, and salinity. These varieties have been released across the country and are being adopted by farmers. For example, the 'IR64' variety is known for its high yield potential under drought conditions.

Q: What are the benefits of these new rice varieties for farmers?

A: The new rice varieties developed by CRRI are more productive and efficient than traditional varieties. They require less water and can withstand flooding and saltwater intrusion. This makes them more suitable for farmers in different parts of the country, particularly those in coastal areas and regions prone to flooding.

Q: Are there any specific projects or initiatives currently underway at CRRI?

A: CRRI is currently working on several projects aimed at improving rice production and quality. One such project involves developing new rice varieties that are resistant to pests and diseases. Another project focuses on developing rice varieties that are better suited for organic farming.

Q: What advice would you give to farmers who are interested in growing rice?

A: I would advise farmers to choose the right rice variety based on their specific growing conditions. It's important to select a variety that is well-suited to the local climate and soil type. Farmers should also follow good agricultural practices, such as proper irrigation and pest management, to ensure a successful harvest.



# Bill Gates Reviews BMG Projects

**D**R Bill Gates reviewed the progress in the Bill & Melinda Gates Foundation supported projects such as the "Stress Tolerant Rice for Poor Farmers in Africa and South Asia (STRASA)," in New Delhi on 23 Jul 2009. Dr T.K. Adhya presented the progress in the projects in the CRRI, Cuttack carried out under the ICAR-IRRI Collaborative Programme. \*



Dr Bill Gates (fifth from left) is seen with the participants during the review meeting. Dr T.K. Adhya is fourth from right in the background.

## CURE Workshop Outlines Work Plan

**T**HE Inception Workshop on “Enabling Poor Rice Farmers to Improve Livelihoods and Overcome Poverty in South and Southeast Asia through CURE,” formulated a work plan for workgroups and a framework for linkages with IFAD investment projects during the meeting held from 26 to 27 Aug 2009 at IRRI, the Philippines. Dr T.K. Adhya presented the situation report and the Work Plan of the Working Group 3 (Salt-affected Environments). The participants were from Bangladesh, Cambodia, India, Indonesia, Lao PDR, Myanmar, Nepal, Vietnam, and the Philippines. Representatives from the IFAD and IRRI also deliberated in the Workshop.\*



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# Caffè Espresso + Caffè Lungo

Courtesy: IRRI, Philippines



B. Behera

## **STRASA Training Course Conducted**

**E**XPERIMENTAL Design and Data Analysis CROPSTAT for Plant Breeders" was the training course sponsored under the project "Stress Tolerant Rice for Poor Farmers in Africa and South Asia (STRASA)," IRRI, Philippines at the CRRI, Cuttack from 7 to 11 Sep 2009. Dr K. Anitha Raman, Biometri-cian, IRRI, Philippines and Ms Violeta Bartolome, Se-nior Associate Scientist-Biometrics IRRI, Philippines imparted the training in CROPSTAT software to 27 participants from India including two from Nepal.\*

## NAIP Activities

## **Review Meeting Held**

The third CIC, second CAC and Mid-term Review Workshop of National Agricultural Innovation Project (NAIP), Component-4 (C-2031) "Soil Organic Carbon Dynamics vis-à-vis Anticipatory Climatic Changes and Crop Adaptation Strategies" was held at CRRI, Cuttack from 30 Jul to 1 Aug 2009. Dr Anand Swarup, Head, Division of Soil Science and Agricultural Chemistry, IARI, ICAR, New Delhi was the Chief Guest. The progress was reviewed and an action plan was formulated. The participants were Drs A. Bandyopadhyay, National Coordinator, NAIP, Component-4, D.C. Uprety, Chairman, CAC and ICAR Emeritus Scientist, Division of Plant Physiology, IARI, New Delhi, S.N. Singh, Scientist-G, Deputy Director and Head, Division of Environmental Sciences, National Botanical Research Institute, Lucknow, V.R. Rao, T.K. Adhya, P. Bhattacharyya, M.C. Manna, S.S. Pal, K. Chendrayan, R.K. Bajpai, and D. Srinivas.\*



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## National Media Meet

The CRRI, Cuttack organized a National Media Meet on 24 Aug 2009 under the NAIP Sub-Project "Mobilizing Mass Media Support for Sharing Agro Information." The participants were from the print and broadcast media. Drs T.K. Adhya, Director, CRRI, T.P. Trivedi, Project Director

(DIPA) and ADG (ARIS), B.N. Chattopadhyay, Co-ordinator and Nodal Officer, Media & Information, Jagdeep Saxena, Editor and Shri Anil Kumar Sharma, addressed the media. \*

## **Third Consortium Advisory Meeting**

Dr M. Variar from the CRRI Regional Research Station, Hazaribag attended the Third Consortium Advisory Meeting of the NAIP project on "Allele Mining and Expression Profiling of Resistance- and Avirulence-genes in Rice-blast Pathosystem for Development of Race Non-Specific Disease Resistance" at the UAS, Dharwad from 1 to 2 Sep 2009 to review the progress and plan activities for the next six months. The objective of the project is to develop gene constructs containing an *Avr* gene from the pathogen and a resistance gene from rice under the control of a promoter to trigger race non-specific defense responses following the recognition of the infective pathogen.\*

## **Training Programme**

A training programme for consortia partners under NAIP on "Procurement Related Matters and Financial Management" was held at CRRI, Cuttack from 17 to 18 Sep 2009 for scientists and staff associated with NAIP Projects from the CRRI, OUAT, CIFA, WTCER and NGO. Shri S.R. Khuntia, SFAO, NAIP, New Delhi along with three consultants from RITES and Ernst & Young imparted the training. Dr T.K. Adhya, Director, CRRI inaugurated the training programme. Shri S.K. Sinha, SAO, CRRI was the local Co-ordinator.\*



# Inaugural Workshop of Component-1 Project

The inaugural Workshop of NAIP Component-1 funded project on “Development and Maintenance of Rice Knowledge Management Portal (RKMP)” was held at CRRI, Cuttack on 19 Sep 2009. Dr N.T. Yaduraju, National Co-ordinator, NAIP was the Chief Guest. Dr T.K. Adhya presided over the function. Drs



Dr T.P. Trivedi answers a query from  
a media personnel.

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Dr T.K. Adhya addressed the participants.

IEEE Transactions on  
Educational Computing

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Krishi Vigyan Kendra, Santhapur

## **Frontline Demonstrations**

FLD on upgradation of local sheep and goat through improved Buck (variety Beetal) in village Uchapada was conducted in collaboration with the SDVO, Cuttack. The results revealed that the body weight of the F<sub>1</sub> was 30% higher than the local.

As part of the FLD on backyard poultry/duckery, 258 one-day old poultry chick variety Vanaraja, 75 Black Rock chicks and 32 Khaki Campbell ducklings were distributed in different KVK adopted villages.

## **Training Programmes**

Off-campus training programmes were conducted in KVK adopted villages on "Group Dynamics" at Haridopal, "Disease Management of Dairy Animals" at Chatilo, "Feed and Fodder Management of Dairy Animal" at K.B. Sailoo and "Leadership Development of Farmers" at Karanji and Ghasi in which a total of 125 farmers/farmwomen/rural youths were trained.

One on-campus training programme was conducted on "Formation and Management of Self-help Group" for 25 rural youths.

Three training programmes sponsored by the Department of Horticulture and Department of Agriculture, Government of Orissa, Cuttack district with the KVK on "Sorting and Grading of Fruits and Vegetables," "Vermicomposting" and "SRI Method of Rice Cultivation" were conducted.\*

Krishi Vigyan Kendra, Koderma

## **Training programmes**

Training programmes for 230 farmers/farmwomen/rural youth were conducted in "Identification and Management of Insect Pests and Diseases of Blackgram and Pigeonpea," "Care and Management of Broiler," "Pest Management for Safer Environment," "Computation of Balanced Ration for Milch Cattle from Locally Available Ingredients," "Safe Use of Pesticides and First Aid Precautions," "Control of Ecto- and Endo-parasite Infestation in Cattle and Goat," "Identification and Management of Rice Insect Pests and Diseases," "Storage of Foodgrain in Local Condition" and "Drudgery Reduction in Farm Operation for Farmwomen."

Two sponsored training programmes on “Seed Treatment, Soil Testing, Crop Diversification” on alternate crop production due to drought were conducted in collaboration with ATMA, Koderma for 13 days in six blocks all over the districts benefiting 1,400 farm families. \*

ΕΛΛΗΝΙΚΗ ΕΘΝΑΚΡΕΣ ΕΔΡΑ ΟΕΛΛΗΝΟΥ

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## Radio and TV Talks

**D**R T.K. Adhya was interviewed on “Impact of Climate Change on Food Security of India” at the All India Radio, Cuttack for the National Science Magazine Programme “Radio Scope” on 21 July 2009.

The following programmes were recorded on 18 Aug 2009 at the Doordarshan, Hazaribag for telecast:

## **Scientific Cultivation of Rice and Improved Varieties and Scientific Cultivation of Pulses in Kharif Season: Shri Manish Kumar.**

# Agroforestry, Scientific Cultivation of Papaya: Shri Rupesh Ranjan.

The following programmes were recorded on 8 Sep 2009 at the All India Radio, Hazaribag for broadcast:

## Disease Management in Sugarcane: Dr Mahesh Pathak.

Artificial Insemination: Dr Sudhanshu Shekhar.  
Commercial Use of Tomato and Chilli: Smt

## Chanchila Kumari.

## Exhibition

**T**HE CRRI participated in the “Farmers Exhibition” at Krishi Vigyan Kendra, Ranital, Bhadrak on 15 Sep 2009. The fair was inaugurated by His Excellency the Governor of Orissa Shri Murlidhar Chandrakant Bhandare. The CRRI exhibited various technologies and was represented by Dr A.K. Shukla, Shri P. Jana, Shri S. Pradhan, Shri B. Das and Shri A.K. Parida.\*

## Foreign Deputation

**D**R Pramila Krishnan, Senior Scientist was deputed to the USA for availing the USEFI Fulbright Senior Research Fellowship programme 2009–10 for a period of six months beginning from 1 Jul 2009.

Dr J.N. Reddy, Principal Scientist was deputed to participate in the 14<sup>th</sup> APB (Australasian Plant Breeding) and 11<sup>th</sup> SABRAO (Society for Advancement in Breeding Research in Asia and Oceania) Conference jointly held at Cairns Convention Centre, Cairns, Tropical North Queensland, Australia during 10-14 Aug 2009. He also presented a paper on "Improvement of Rice Germplasm for Rainfed Lowlands of Eastern India" in the conference.

Drs T.K. Adhya, D.P. Singh, and P.K. Sinha were deputed to the IRRI, Philippines to participate in the inception workshop for the CURE-IFAD project "Enabling Poor Rice Farmers to Improve Livelihood and Overcome Poverty in South and Southeast Asia through CURE" from 26 to 27 Aug 2009.\*

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### Symposia/Seminars/Conferences/ Workshop/Trainings Attended

**D**R T.K. Adhya attended the ICAR Award Ceremony and the Director's Meeting at New Delhi on 16 Jul 2009. He also attended the National Meeting on Conservation of Agriculture at ICAR, New Delhi on 18 Jul 2009.

Dr P. Samal attended the National Seminar on “New Vision in Agricultural Marketing—Planning, Designing of Agricultural Markets and Linking to Producers” at OUAT, Bhubaneswar on 18-19 Jul 2009.

Dr T.K. Adhya attended a meeting with Dr Bill Gates to discuss the issue of promotion of stress-tolerant varieties particularly Swarna-Sub 1 under the BMGF foundation programme under the ICAR-IRRI collaborative project at New Delhi on 23 Jul 2009.

Dr D.P. Sinhababu attended a meeting with the Principal Secretary, Department of Fisheries and ARD, Government of Orissa at the Directorate of Fisheries, Cuttack on 23 Jul 2009. He delivered a lecture on "Rice-fish Integrated Farming System."

Dr T.K. Adhya attended the programme finalization workshop for the All India Network Programme on “Biofertilizer and Biodiversity” at CRIDA, Hyderabad on 25 Jul 2009.

Dr Sanjoy Saha attended the Annual Review Meeting of NIWS at the TNAU, Coimbatore on 1 Aug 2009.

Dr Sanjoy Saha participated in the National Symposium on "Weed Threat to Environment, Biodiversity and Agricultural Productivity" at the TNAU, Coimbatore from 2 to 3 Aug 2009. He presented a paper on "Bio-intensive Weed Management in Direct-sown Rainfed Lowland Rice."

Dr T.K. Adhya attended the Sectional Committee meeting of INSA at New Delhi from 3 to 5 Aug 2009.

Dr N. Bhakta acted as a resource person at the farmers' training programme on "Modern Technology for Growing *Sali Paddy*" organized by the KVK, Nalbari on 4 Aug 2009.

Dr K.S. Rao attended the SAC meeting of the KVK, Kendrapara on 19 Aug 2009.

Dr K.S. Rao attended the “SRI as a Socio-technical Movement in India” Planning Workshop at the Xavier Institute of Management, Bhubaneswar on 20 Aug 2009.

Dr S.R. Dhua attended the Review Meeting of "Seed Production in Agricultural Crops" at NASC Complex, New Delhi during 24-25 Aug 2009.

Dr R.K. Sarkar participated in a National Symposium on "Frontiers in Photobiology" at Bhabha Atomic Research Centre (BARC), Mumbai during 24-26 Aug 2009

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Dr S.G. Sharma attended and presented a paper in the National Seminar on "Nutritional Strategies for Improving Quality of Life" at the G. B. Pant University of Agriculture and Technology Panthagar from 11-12 Sep 2009.

Dr T.K. Adhya attended the Sectional Committee Meeting of NAAS at New Delhi from 23 to 26 Sep 2009.\*

## Appointments

DR Sangita Mohanty joined as Scientist (Soil Science: Soil Chemistry/Soil Fertility and Microbiology) at CRRI, Cuttack on 29 Aug 2009.

Dr K. Vanitha joined as Scientist (Agricultural Entomology) on 29 Aug 2009 at the KVK, Santhapur.

Shri D.C. Sahoo joined as Administrative Officer on 7 Sep 2009 on promotion from the CIFA, Bhubaneswar.\*

## Transfer

SHRI N.C. Parija, Assistant on deputation from the CRRI to the IINR&G, Ranchi rejoined CRRI on 16 Sep 2009.\*

## Retirement

DR Gouri Padhi, Principal Scientist, Shri R.C. Dani, Principal Scientist, Shri N.C. Dash, T-5 and Shri Niranjan Das, T-4 retired on 31 Jul 2009.

Drs A.K. Misra, Principal Scientist, P.K. Sinha, Principal Scientist and Shri N.C. Paik, T-5 retired on 31 Aug 2009.

Dr R.N. Dash, Principal Scientist, Shri D.C. Jena, T-4, Shri P.K. Das, Skilled Support Staff and Smt Basi Dei, Skilled Support Staff retired on 30 Sep 2009.\*

## Necrology

SHRI Suka Singh, Skilled Support Staff passed away on 9 Jul 2009.\*

SAHA, S. and Patra, B.C., 2009. Effect of Variety and Weed Management Practices on Productivity of Deepwater Rice. *Oryza* 46 (1): 45-47.

Saha, S., 2009. Efficacy of Bensulfuron-methyl for Controlling Sedges and Non-grassy Weeds in Trans-

\* 11-12 Sep 2009 "Nutritional Strategies for Improving Quality of Life" at the G. B. Pant University of Agriculture and Technology Panthagar from 11-12 Sep 2009.

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## Exhibition

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## Exhibition

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## Publications

planted Rice (*Oryza sativa*). *Indian J. Agric. Sci.* 79 (4): 313-316.

Saha, S. and Rao, K.S., 2009. Efficacy of Sulfonylurea Herbicides for Broad-spectrum Weed Control in Wet Direct-sown Summer Rice. *Oryza*. 46 (2): 116-119.\*

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