

## CURRICULUM VITAE

Name : **RAMESH BANDARUPALLI**  
Father's Name : Sri B. Veeraiah  
Date of Birth : 14 June 1952  
Nationality : Indian  
Designation : Reader  
Institution : Ch. Charan Singh University, Meerut  
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### Academic Career:

Degree subjects	Year	Division	University	Main
Diploma in Applications to Molecular Biology	1996	--	CIMMYT (The International Maize & Wheat Improvement Centre), MEXICO	Molecular Marker
Ph. D. (Cytogenetics)	1979	--	Andhra Univ., Visakhapatnam	Plant Breeding Botany
M. Sc.	1974	FIRST	- do -	Botany
B. Sc. Chemistry	1972	FIRST	- do -	Botany, Zoology,
P.U. C. Physics	1969	FIRST	- do -	Biology, Chemistry,
S. S. L. C.	1968	FIRST	Board for Sec. Edn., A. P.	Biology, Maths

### Awards and Fellowships :

- National merit scholarship, Govt. of India from 1967 to 1972.
- Junior Research Fellowship, CSIR, New Delhi from 1975 to 1978.
- Senior Research Fellowship, UGC, New Delhi from 1978 to 1980.
- Post Doctoral Research Fellowship, CSIR, New Delhi from 1980 to 1981.
- Post Doctoral Research Fellowship in a project funded by IAEA, Vienna during 1982.

### Positions held:

2003 - to date Professor in Genetics & Plant Breeding (Ag. Botany) at C C S Univ, Meerut  
1995 - 2003 Reader in Genetics & Plant Breeding (Ag. Botany) at C C S Univ, Meerut  
1992 - 1995 Sr. Lecturer in Ag. Botany at Ch. Charan Singh University, Meerut  
1987 - 1992 Lecturer in Ag. Botany at Meerut University, Meerut  
1987 (4 months) UGC Research Associate at Botany Dept., Andhra Univ., Visakhapatnam  
1986 - 1987 UGC Research Associate at Osmania University, Hyderabad

1982 - 1986 CSIR Scientific Pool Officer at Osmania University, Hyderabad.

**2001 - 2004** Coordinator, Department of Biotechnology; and  
Coordinator, Department of Seed Science & Technology, CCSU

**Teaching Experience:** Total 28 years ( 21 years at C C S University, Meerut; and 7 years at Andhra University, Visakhapatnam).

**Research experience :** 30 years (excluding the period spent for Ph. D.).

**Fields of Specialization :** Cytogenetics, Mutation Breeding, Genetics, Crop Biotechnology, Seed Technology

**Areas of Research worked / working on:**

- Cytogenetic studies in rice, barley and lentil
- Cytological studies in *Vicia faba* and *Sesbania* species
- Interspecific hybrids in rice and barley
- Induced mutations in rice, barley and lentil
- Crop improvement programmes in rice, barley and lentil
- Nuclear DNA estimations in rice, barley and lentil
- Tissue culture & Plant Biotechnology studies
- Cytotaxonomical studies of the genus *Oryza* L.
- Wide hybridization (Potato x Tomato, Maize x Sorghum, Rice x Sorghum)
- Protein content estimations in barley, sorghum and rice
- Molecular biology of wheat seed storage proteins
- Image analysis of plant chromosomes
- Microsatellites in Potato

**Research Projects:**

Position Period	Title of the project	Funding	Total Grant	Duration	
		Agency	(Rs.)	(in years)	
Principal 1996 - June 2000	Cytotaxonomical studies of the genus <i>Oryza</i> L.	DST,	16.57 lakhs	4	June
Investigator		Govt. of India			
Co- Principal 1995 – March 2000	Development of PCR based hypervariable STMS markers for tagging of glutenin genes in wheat	DBT,	77.29 lakhs	5	March
Investigator		Govt. of India			
Principal 2001 - Dec. 2004	Development of Microsatellite markers in Potato	ICAR	15.71 lakhs	3 1/2	June
Investigator		Govt. of India			

**Publications** : Research papers in national & international refereed journals - 78 (List enclosed)

Papers presented in conferences/seminars/symposia - 56

Books - 3 (Edited & authored )

## Research students supervised :

**Ph D** - Awarded - 9;  
- Submitted - 1  
- Working – 5.

**M Phil** - 19.

**M Sc Ag.**(Gen. & Pl. Br.) - 20

**M Sc (Biotech)** – 65

**M Sc Ag. (Seed Tech)**: 30.

## Summer Institutes/Workshops attended/Special Training received:

- a) Attended Advanced Level Institute on “ Recent Trends in Plant Genetics” from Sept. 5-25, 1983 at the Department of Genetics Osmania University, Hyderabad.
- b) Attended Summer Institute on “ Recent Advances in Seed Technology and Quality Control “ from 3-22 May, 1989 at Central Seed Testing Laboratory, IARI, New Delhi.
- c) Training Workshop on “ Molecular Biology of the Gene” from 6-25 Feb. 1995 at the Centre for Plant Molecular Biology, Dept of Genetics, Osmania University, Hyderabad.
- d) International Training Workshop on “ Molecular Marker Applications to Plant Breeding” from 14 Oct to 1 Nov., 1996 at the International Maize and Wheat Improvement Centre (CIMMYT), Mexico.
- e) DAE- BRNS workshop on “ Applications of Image Processing in Plant Sciences and Agriculture” held at Molecular Biology and Agriculture Div., Bhabha Atomic Research Centre, Mumbai during 26<sup>th</sup> to 30<sup>th</sup> October, 1998.

## Visits Abroad:

- Visited **CIMMYT** (The International Maize and Wheat Improvement Centre), **Mexico** during Oct. - Nov, 1996.
- Visited **IRRI** (International Rice Research Institute), Los Banos, Manila, **Philippines** during 30<sup>th</sup> March – 5<sup>th</sup> April, 2000

## Participation in Conferences / Symposia:

Attended **53** National and International Conferences/Congresses/Symposia and presented Papers in India and abroad (list enclosed).

## Membership/ Fellowship of Scientific bodies:

- Fellow of the Indian Society of Genetics & Plant Breeding, New Delhi since 1986.
- **Councillor** (elected), Association of Rice Research Workers (ARRW), CRRI, Cuttack, India for 1992 and 1993.

- Elected as **Sectional Committee member** (Botany section) of the Indian Science Congress Association for the year 2000 - 2001.
- Fellow, Indian Society of Cytologists and Geneticists, India.
  - Life Member, Association of Rice Research Workers, Cuttack, India.
- Life Member, Indian Science Congress Association, Calcutta.

#### **Editorial Assignments in Research Journals:**

- Technical Editor, Indian J. Crop Science, Meerut.
- Executive Councillor, Society for Scientific Development in Agriculture and Development & Progressive Research Journal.
- Reviewer, Indian J. Genet., New Delhi

#### **Administrative Experience:**

- Executive Member of the Ch. Charan Singh University Appointed **Teachers' Association** (CCSUATA), C C S University, Meerut
  - Treasurer** -- for 1997-1998
  - Joint secretary** -- for 1998 -2000
  - Secretary** -- for 2000 - 2003
- **Warden**, Research Scholars' Hostel, Ch. Charan Singh University, Meerut for 1997-98.
- **Asst. Proctor**, Ch. Charan Singh University, Meerut Dec. 1998 to March 2002.
- **Coordinator**, Department of Biotechnology, CCS University, Meerut from 18<sup>th</sup> Jun to 31<sup>st</sup> Aug 2000 and from 8.1.2002 to 12.9.2004.
- **Coordinator**, Department of Seed Science & Technology, C C S University, Meerut June 2001-Sep. 2004
- **Asst. Dean, Students Welfare**, Ch. Charan Singh University, Meerut, w.e.f. 12.08.2004.
- **Sr. Superintendent, Campus Entrance Test 2004** for admission to various courses in the University
- **Acting as Dy. Coordinator, UGC-SAP-DRS** program sanctioned to the department of Genetics & Plant Breeding, C C S University since 1 April 2004.

#### **Organization of Scientific Conferences/ Symposia:**

*Served as Organizational Committee member on --*

- The National Symp. On "Advances in Science and Technology in Indian Context" (14 -16 April 1985) held at the National Institute of Nutrition, Hyderabad, India.
- DST sponsored Contact Program for the young scientists on "Molecular Biology and Crop Biotechnology" during 2 -14 Sept., 1996, held at the Department of Agricultural Botany, Ch. Charan Singh University, Meerut, India.
- Int. Symposium on "Genetics and Biotechnology in Crop Improvement" from 14 - 16 February, 1997 held at Ch. Charan Singh University, Meerut, India.
- DST sponsored Second Contact Program on the "Applications of Molecular Biology Techniques for Crop Improvement" held at the Department of Agricultural Botany, Ch. Charan Singh University, Meerut, India during 15 - 28 March, 1998.

- DST sponsored Third Contact Program on the “Plant Biotechnology and Molecular Marker Technology” held at the Department of Agricultural Botany, Ch. Charan Singh University, Meerut, India during 6 - 18 March, 2000.
- 23<sup>rd</sup> Botanical Conference held at Ch. Charan Singh University, Meerut during 14 -16 October, 2000.
- International Diamond Jubilee Symposium "Hundred Years of Post-Mendelian Genetics & Plant Breeding - Retrospect and Prospects" organized by Indian Society of Genetics & Plant Breeding, New Delhi during November 6 - 9, 2001 at IARI, New Delhi (acted as **Convener** of the session on 'Mutation Breeding')
- National Seminar on ‘Molecular Cytogenetics & Crop Breeding’ organized by Dept. of Genetics & Plant Breeding, C C S University, Meerut during November 5-6, 2005 under its UGC-SAP-DRS program. (I acted as **Secretary**, Organizing Committee).
- Int. Conference on ‘Molecular Basis of Plant Breeding’ organized by Dept. of Genetics & Plant Breeding, C C S University, Meerut during 26-28 Feb. 2007 under its UGC-SAP-DRS program. (I acted as **Secretary**, Organizing Committee).
- National Symp. on “Recent Trends & Future Prospects in Agriculture” organized jointly by Society for Recent Developments in Agriculture; S V B P University of Agri. & Tech., Modipuram; and Dept. of Horticulture, C C S University, Meerut during November 26-27, 2007 at C C S University campus, Meerut. (I acted as **Member**, National Organizing Committee).

#### Others:

- Development of -
- a) High yielding, fine grain types in rice.
  - b) Semidwarf, high yielding mutants in barley.
  - c) High yielding and other useful mutants in lentil.
  - d) Early maturing, high yielding mutant in Pusa Basmati 1.

#### RESEARCH STUDENTS SUPERVISED

#### I. Ph. D:

##### (A) AG. BOTANY

##### Awarded:

1. **Mr. Salimuddin** : Studies on cytogenetics and induced mutations in lentil (*Lens culinaris* Med.). (2001)
2. **Mr. Bateshwar Kumar** : Morphogenetic studies on some induced mutants in barley (*Hordeum vulgare* L.). (2002)
3. **Mr. Devendra Kumar Rana** : A study of new isolates of *Phytophthora infestans* and control of late blight disease in potato. (2007)
4. **Mr. Neeraj Kumar Tyagi** : Genetic enhancement for B carotene in *indica* rice through marker assisted selection. (2008)
5. **Mr. Praveen Kumar** : Cytogenetic studies in grain Amaranths. (2008)

### Submitted :

6. **Mr. Megh Raj** : Genetic studies on some induced mutants in lentil (*Lens culinaris* Med.).  
(Submitted September 2008)

### Working:

1. **Lata Sharma** : Phenotypic and molecular characterization of selected Indian maize landraces/locals and allele mining for *Teosinte branched-1* gene in maize (Date of Registration: 12.03.2007; Regn. No. Res-2/A/700055)
2. **Linu Dubey** : Molecular and functional genomic analyses of drought stress tolerance in maize.  
(Date of Registration: 12.03.2007; Regn. No. Res-2/A/700056)
3. Ms. K Sushmita: Gene pyramiding in *Bt* transgenic tomato and development of novel Bt toxin by protein engineering.
4. Mr. Ashish Kumar Mall : Genetic and molecular characterization of GR-1 based backcross derived Golden Rice lines in the genetic background of commercial rice variety Jaya.

### **(B) BIOTECHNOLOGY**

#### Awarded:

1. **Mr. Vikrant Nain**: Studies in genetic transformation of pigeonpea (*Cajanus cajan* L.) and isolation of an ovule specific promoter. (2007)
2. **Mr. Atul Grover**: DNA fingerprinting and development of microsatellite markers in potato (2007)
3. **Mr. B Jagadish**: Expression of synthetic insecticidal gene (*cry1F*) of *Bacillus thuringiensis* in tobacco with different promoters. (2008)
4. **Ms. Kakali Purkayastha**: Identification and development of novel hair growth promoters. (2008)

#### Under Submission:

1. **Mr. Girish Kumar Goswami**: Isolation, characterization and heterologous expression of xylanase encoding gene(s). (Date of Registration: 21.8.2004; Regn. No. Res.2/A/4486)

### **II. M Sc Ag. THESIS:**

1. Mr. Salimuddin (1988): Somatic karyotype analysis in lentil (*Lens culinaris* Medik.)
2. Mr. Veer Pal Singh (1990): Somatic karyotype analysis in barley (*Hordeum vulgare* L.)
3. Mr. S Dhananjay (1990): A study on the developmental morphology of some induced mutants in lentil.
4. Mr. Bhupendra Singh (1991): Karyotype analysis in cultivated and wild barleys.
5. Mr. Nand Kishore Sharma (1991): Karyotype and meiotic studies in *Vicia faba* L.
6. Mr. Mukesh Kumar Sharma (1992): Cytomorphological studies on F1 intraspecific hybrids in barley
7. Mr. Sushil Kumar Pandey (1993): Influence of genotype and culture medium on callus growth and regeneration in rice (*Oryza sativa* L.)
8. Mr. Santer Pal Singh (1994): Mutagenic effects of gamma rays on cultivated and wild barleys

9. Mr. Brij Kumar Prasad (1995): Morphological characterization of some induced mutants in barley.
10. Mr. Bateshwar Kumar (1997): Genetic variability, character associations and divergence in rice
11. Mr. Pawan Jaiswal (1997): Genetic studies in lentil.
12. Mr. Megh Raj (1998) : Developmental morphology of a tetraploid (C55) and its corresponding diploid (PL-639) in lentil (*Lens culinaris* Medik.)
13. Mr. Pradip Kumar (1998): Genetic variability, character associations and divergence in lentil
14. Ms. Swati (2002) : Estimation of variability, genetic divergence and character association among different yield components in rice.
15. Mr. Ravinder Kumar (2003): Gamma ray induced morphological mutations in lentil (*Lens culinaris* Med.)
16. Ms. Nirmodh Prabha (2004). Study on variation for economic traits in rice (*Oryza sativa* L.)
17. Mr. Hardeep Dhapa (2004): Morphological characterization of some induced mutations in lentil.
18. Mr. Sukram Pal (2005). Variability, path analysis and character associations for agronomic traits in barley.
19. Mr. Tejveer Singh (2005): Genetic divergence for yield traits in barley.
20. Mr. Indravir Singh [2007]: Effect of planting date on growth and yield of early maturing rice mutant of Pusa Basmati-1.

### **III. M PHIL (AG. BOTANY) PROJECT REPORTS:**

1. Mr. Salimuddin (1990): Intervarietal nuclear DNA variation in lentil (*Lens culinaris* Medik.)
2. Ms. Tarakeswari Sharma (1990): Intervarietal nuclear DNA variation in barley (*Hordeum vulgare* L.)
3. Mr. Sushil Kumar (1991): Intervarietal nuclear DNA variation in indica and javanica rices (*Oryza sativa* L.)

4. Mr. Mahipal Singh hudda (1992): A study on variability and associations involving protein content, amino acids and grain yield in grain sorghum (*Sorghum bicolor* (L.) Moench.)
5. Mr. Anuj Kumar (1992): Cytomorphological studies on F1 intraspecific hybrids in barley (*Hordeum vulgare* L.)
6. Mr. Mukesh Kumar Sharma (1994): Inheritance of some morphological characters in crosses involving wild and cultivated barleys.
7. Mr. Yogesh Tiwari (1996): Cytogenetic studies in lentil (*Lens culinaris* Medik.)
8. Mr. Neeraj Kumar Tyagi (1997): Characteristics and developmental morphology of some induced mutants in lentil.
9. Mr. Bhupendra Singh (1997): Contribution of different tillers within a plant to grain yield of rice (*Oryza sativa* L.)
10. Ms. Pushpa Devi (1997): Genetic studies on some lentil mutants (*Lens culinaris* Medik.)
11. Mr. Praveen Kumar (2000): Variability for seedling parameters in cultivated rice (*Oryza sativa* L.)
12. Mr. Megh Raj (2000): Developmental studies on some induced morphological mutants in lentil
13. Mr. Kuldeep Tyagi (2001): A study on variability and correlations in cultivated rice
14. Mr. Munendra Kumar Singh (2003): Effect of seed priming with K<sub>2</sub>SO<sub>4</sub> on germination and seedling growth in rice and maize.
15. Mr. Yeshpal Singh (2003): A study on phyllochron in barley, wheat and rye.
16. Mr. Ravinder Kumar (2004): Breeding behaviour of some leaf mutants in lentil (*Lens culinaris* Med.)
17. Mr. Satyapal Sharma (2005): Anatomical characterization of reduced culm length mutants in barley (*Hordeum vulgare* L.)
18. Mr. Hardeep Thapa (2005): Agro-morphological characterization of some induced mutants in lentil (*Lens culinaris* Medik.)
19. Ms. Kalpana Singh (2008): Estimation of protein and lysine contents in cultivated grain amaranths.

**IV. M Sc BIOTECHNOLOGY PROJECTS: 65**

1. During 2000: 06 projects
2. During 2002: 17 projects.
3. During 2003: 21 projects
4. During 2004: 21 projects

**V. M Sc AG. SEED SCIENCE & TECHNOLOGY PROJECTS: 30**

1. During 2003: 15 projects
2. During 2004: 15 projects

**List of Publications of Dr. B. Ramesh**

1. TVS Reddi, VR Reddi and **B Ramesh** (1978). Gamma ray induced rice plants with 26 chromosomes. *Curr. Sci.* **47** (1): 25-26
2. TVS Reddi, VR Reddi and **B Ramesh** (1978). Chromosome associations at pachytene in interchange heterozygotes of rice. *J. Cytol. Genet.* **13**: 87-92
3. **B Ramesh** (1982). Anthocyanin pigment inheritance in rice. *J. Biol. Res.* **2** (2): 97-99
4. **B Ramesh** and VR Reddi (1983). Cytology of gamma irradiated F1 intervarietal rice hybrids. In: *Current Approaches in Cytogenetics* (Eds. RP Sinha and U Sinha). Spectrum Pub, Patna - New Delhi, pp. 165-170
5. **B Ramesh** (1983). Comparison of cytological effects of EMS on dry and pre-soaked seed of rice variety IR 8. *Plant and Nature* **1** (1): 39-43
6. **B Ramesh** (1984). Inheritance of anthocyanin pigment in rice. *Indian J. Genet.* **44** (1): 15-17
7. **B Ramesh** (1984). Effect of EMS on pre-soaked seed of rice. *Indian J. Bot.* **7** (1): 112-116
8. **B Ramesh** and GM Reddy (1984). Maize x sorghum hybridization. *Maize Newslett.* **58**: 100-101
9. **B Ramesh** (1984). Mutagenic effects of EMS on pre-soaked seed of rice. *Indian Bot. Repr.* **3** (1): 43-47
10. VR Reddi, **B Ramesh** and T Jhansi Rani (1984). A cytogenetical study of an interspecific hybrid in rice. *Perspectives in Cytology and Genetics* (Eds. GK Manna and U. Sinha) **4**: 505-509
11. **B Ramesh** (1984). Cytological effects of EMS on dry and pre-soaked seed of rice. *Indian Bot. Repr.* **3** (1): 83-84
12. VR Reddi, T Jhansi Rani and **B Ramesh** (1984). Problems and prospects of genome differentiation in tetraploid rice. In: *Recent Trends in Botanical Researches* (ed. RP Sinha), RP Roy Commemoration Fund, Patna pp 104-109
13. **B Ramesh** (1984). Mutational response of rice seed to gamma rays and EMS in relation to chlorophyll mutations. *J. Biol. Res.* **4** (1): 26-30
14. **B Ramesh** (1985). Studies on somatic chromosomes of rice. *Bulletin of Pure & Applied Sciences* **4B** (1): 39-43
15. **B Ramesh** (1985). Studies on fine grain mutants in the rice variety IR 8. *GEOBIOS* **12**: 111-115
16. **B Ramesh** (1986). Studies on some intervarietal hybrids of rice. *Perspectives in Cytology and Genetics* (Eds. GK Manna & U Sinha) **5**: 821-824
17. GM Reddy and **B Ramesh** (1986). Chromosomal variation in callus cultures and its application in rice improvement. In: *Chromosome Engineering in Plants* (Proc. First Int. Symp, China, 1986)
18. **B Ramesh** and GM Reddy (1986). Chromosomal variation in haploid and diploid rice cultures. In: *Plant Cell and Tissue Culture of Economically Important Plants* (ed. GM Reddy), Oxford & IBH, New Delhi, pp. 277-279
19. **B Ramesh** (1987). Radiation effects on segregating seed in rice. *Indian J. Bot.* **10** (1): 17-20

20. **B Ramesh** (1989). Radiation effects on rice plants at the panicle primordia stage of plant development. *Indian Bot. Repr.* **8** (1):1- 4
21. **B Ramesh** and Salimuddin (1990). Intervarietal variation for chromatin content in lentil (*Lens culinaris* Medik.). *LENS Newslett.* **19** (2): 3 - 8
22. Salimuddin and **B Ramesh** (1993). Karyological studies in the genus *Sesbania*. *Cytologia* **58**: 241-246
23. **B Ramesh** and Susheel Kumar (1993). Nuclear DNA estimations in rice (*Oryza sativa* L.). *ORYZA* **30**: 86-89
24. **B Ramesh** and MPS Hudda (1994). Study on variability and associations involving protein content, amino acids and grain yield in sorghum. *Indian J. Genet.* **54** (1): 37-44
25. **B Ramesh** and T Sharma (1994). Intervarietal nuclear DNA variation in barley (*Hordeum vulgare* L.). *Proc. Indian natn. Sci. Acad.* **B60** (1): 83-86
26. Salimuddin and **B Ramesh** (1994). Karyotype, nuclear and chromosomal DNA variation in *Lens culinaris* Med. *Cytologia* **59**: 7-15
27. Salimuddin and **B Ramesh** (1994). Karyological studies in macrosperma varieties of lentil (*Lens culinaris* Med.). *Proc. Conf. on Cytol. Genet.* **4**: 43-46
28. SK Pandey, **B Ramesh** and PK Gupta (1994). Study on effect of genotype and culture medium on callus formation and plant regeneration in rice (*Oryza sativa* L.). *Indian J. Genet.* **54** (3): 293-299
29. Salimuddin and **B Ramesh** (1994). Intervarietal nuclear DNA variation in lentil (*Lens culinaris* Med.). *Indian J. Pulses Res* **7** (2): 116-118
30. PK Gupta and **B Ramesh** (1995). Genetics of wild and cultivated plants. In: *Botany in India: History and Progress, Vol. II* (ed. BM Johri), Oxford & IBH, New Delhi, pp. 209-239
31. SK Pandey and **B Ramesh** (1996). Genetic analysis of traits related to callus growth and plant regeneration in rice. *ORYZA* **33**: 66-67
32. **B Ramesh** and VP Singh (1996). Somatic karyotype analysis in barley (*Hordeum vulgare* L.). *Indian J. Genet.* **56** (3): 248-255
33. Brij Kumar Prasad and **B Ramesh** (1996). Characterization of induced morphological mutants in barley. *J. Cytol. Genet.* **31** (1): 7-10
34. **B Ramesh** and S. Dhananjay (1996). Developmental morphology of induced semidwarf and stunted mutants in lentil. *Indian J. Genet.* **56** (3): 335-340

35. PK Gupta, HS Balyan, PC Sharma and **B Ramesh** (1996). Microsatellites in plants: A new class of molecular markers. *Curr. Sci.* **70** (1): 45-54
36. NK Sharma and **B Ramesh** (1996). Study of chromosomal associations at diakinesis through male meiosis in *Vicia faba* L. *Curr. Agric.* **20** (1/2): 87-90
37. **B Ramesh** (1996). Restriction enzymes and restriction mapping. Lecture notes. In: Contact Program on *Molecular Biology and Crop Biotechnology- Protocols*. CCS University, Meerut, pp. 44-45
38. **B Ramesh** (1996). Molecular mapping - genetic, cytogenetic and physical maps. Lecture notes. In: Contact Program on *Molecular Biology and Crop Biotechnology- Protocols*. CCS University, Meerut, pp. 52-53
39. NK Sharma and **B Ramesh** (1997). Karyotype analysis in faba bean. *Annals of Arid Zone* **36** (4): 363-366
40. PK Gupta, HS Balyan PC Sharma and **B Ramesh** (1997). DNA fingerprinting in plants. Lecture notes. National Training Program on *DNA Fingerprinting in Farm Animals* (Eds. BR Yadav and B Mitra), NDRI, Karnal, pp. 51-54
41. A Sen, HS Balyan, PC Sharma, **B Ramesh**, A Kumar, JK Roy, RK Varshney and PK Gupta (1997). DNA amplification fingerprinting (DAF) as a new source of molecular markers in bread wheat. *Wheat Info. Serv.* **85**: 35-42
42. **B Ramesh** and Bateshwar Kumar (1998). Genetic divergence in rice. *Indian J. Pl. Genet. Resources* **11** (1): 13-17
43. RK Varshney, PC Sharma, PK Gupta, HS Balyan, **B Ramesh**, JK Roy, A Kumar, and A Sen (1998). Low level of polymorphism detected by SSR probes in bread wheat. *Plant Breeding* **117**: 182-184
44. HS Balyan, PC Sharma, **B Ramesh**, A Kumar, RK Varshney, JK Roy, HS Dhaliwal, H Singh and PK Gupta (1998). Towards development of molecular markers for tagging genes for quality traits in bread wheat. In: *Proc. IX Int. Wheat Genet. Symp.* (Ed. AE Slinkard), University of Saskachewan, Saskatoon, Canada (2-7 Aug. 1998) Vol. **3** : 84-88
45. Neeraj K. Tyagi and **B Ramesh** (1998). Characteristics and developmental morphology of reduced plant height mutants in lentil. *LENS Newslett.* **25**: 6-10
46. PK Gupta, HS Balyan, PC Sharma and **B Ramesh** (1998). Genetics and molecular biology of seed storage proteins in wheat. In: *Genetics and Biotechnology in Crop Improvement* (Eds. PK Gupta, SP Singh, HS Balyan, PC Sharma and B Ramesh), Rastogi Pub, Meerut, India. Pp.126-157
47. Bateshwar Kumar and **B Ramesh** (1998). Genetic variability, character associations and path analysis of yield and yield characters in rice. *J. Cytol. Genet.* **33**: 125-129
48. **B Ramesh** and Bhupendra Singh (1999). Contribution of different tillers within a plant to grain yield of rice. *ORYZA* **36** : 228-233

49. **B Ramesh** and Neeraj Kumar Tyagi (1999). Characteristics and developmental morphology of three agronomically useful mutants in lentil (*Lens culinaris* Medik.). *Indian J. Agric. Sci.* **69** (1): 36 - 39
50. PK Gupta, Rajeev K Varshney, PC Sharma and **B Ramesh** (1999). Molecular markers and their applications in wheat breeding. *Plant Breeding* **118**: 369-390
51. PK Gupta, HS Balyan, PC Sharma, **B Ramesh**, Rajeev K Varshney, Joy K Roy and Manoj Prasad (1999). Development of molecular markers for wheat breeding at Meerut, a centre for the Wheat Biotechnology Network in India. *Annual Wheat Newslett.* **45**: 78-82.
52. **B Ramesh**, Pradeep Kumar and Bateshwar Kumar (2000). Genetic variability, character associations and path analysis of yield and its component characters in lentil. *Indian J. Pl. Genet. Resources* **13** (1): 22-26
53. **B Ramesh**, Pradeep Kumar and Bateshwar Kumar (2000). Genetic divergence for yield and its component traits in cultivated microsperma lentils (*Lens culinaris* Med.). *Indian J. Pl. Genet. Resources* **13** (2): 123-125
54. S Kumar, HS Balyan, **B Ramesh**, SP Singh and PK Gupta (2001). A study of nucleolar organizers in lentil using FISH and spore quartet analysis. *Cytologia* **66**(3): 247-252
55. **B Ramesh**, Brij Kumar Prasad and V P Singh (2001). Semidwarf, high yielding and high protein mutant in barley (*Hordeum vulgare*). *Mutation Breed. Newslett.* **45**: 26-27.
56. **B Ramesh** and Megh Raj (2001). Developmental morphology of an induced tetraploid and its parental diploid in lentil (*Lens culinaris*). *Indian J Agric. Sci.* **71** (12): 776-779
57. Bateshwar Kumar and **B Ramesh** (2001). Correlations between spike development and internode elongation in barley (*Hordeum vulgare*). *Indian J Agric. Sci.* **71** (11): 717 -718
58. **B Ramesh** and Mukesh Kumar Sharma (2002). Inheritance of early growth habit and spike row number in barley (*Hordeum vulgare* L.). *Indian J. Genet.* **62**(1): 75-76
59. S P Singh, **B Ramesh**, R Kumar, Bateshwar Kumar and M P Singh (2002). Induced mutations in barley (*Hordeum* species): Frequency and spectrum of morphological mutants. *Progressive Agriculture* **2**(1): 57-60
60. **B Ramesh**, Bateshwar Kumar and Devi Singh (2003). Pathways of height reduction in induced mutants of barley. *Indian J. Genet.* **63** (4): 343-344
61. Bateshwar Kumar and B Ramesh (2004). Activity of alpha amylase in induced mutants of barley. *Barley Genetics Newsletter* **34** 10-12.
62. Bateshwar Kumar and **B Ramesh** (2004). Characterization and evaluation of induced mutants in barley. *Indian J. Agric. Sci.*, **74** (9): 492-495
63. Swati, Prasanth Goel and **B Ramesh** (2004). The nature and divergence in relation to yield traits in rice germplasm. *Ann. Agric. Res. (New Series)*, **25** (4): 598-602.
64. Bateshwar Kumar and **B Ramesh** (2004). 'Bionema' as a substitute to chemical fertilizers in rice. *Progressive Agriculture*, **4**(2): 213-214.

65. Kuldeep Tyagi, Bateshwar Kumar, **B Ramesh** and Ajay Tomer (2005). Genetic variability and correlations for some seedling and mature plant traits in 70 genotypes of rice. *Research on Crops*, **5** (1): 60-65.
66. Vikrant Nain, Rajani Jaiswal, Monika Dalal, **Bandarupalli Ramesh** and Polumetla A Kumar (2005). PCR analysis of transgenic plants contaminated by *Agrobacterium*. *Plant Molecular Biology Reporter*, **23**: 59-65.
67. **B Ramesh** and Bateshwar Kumar (2005). Variation in chlorophyll content of mutants of barley. *Indian J. Plant Physiology* **10(1)** (N S): 97-99.
68. Salimuddin and **Bandarupalli Ramesh** (2005). Karyotype analysis in the genus *Lens*. *Nucleus* **48** (1, 2): 41-45.
69. Salimuddin and **Bandarupalli Ramesh** (2005). Chromosomal configurations and centromere orientation in radiation induced interchange heterozygotes of lentil (*Lens culinaris* Medik). *Nucleus* **48** (3): 90-98.
70. M. P Bharti, Devendra Kumar, B P Singh and **B Ramesh** (2006). Effect of plant growth promoting bioagents on morpho-physiological traits, dry matter distribution and tuber yield in potatoes grown under heat stress condition. *Potato J.* **33**: 154-157
71. Bateshwar Kumar and **B Ramesh** (2006). Response of induced dwarf mutants of barley to exogenous application of gibberellic acid. *Barley Genetics Newslett.* **36**: 3-5.
72. P Arora, B D Lakhchaura, **B Ramesh** and G K Garg (2006). Newcastle disease virus strain R2B fusion protein (F) gene, partial cds. Nucleotide sequence, 1 - 1123 bp (Access number DQ452298). *NCBI*, 14 April 2006.
73. P Arora, B D Lakhchaura, **B Ramesh** and G K Garg (2006). Fusion protein (Newcastle disease virus). Protein sequence, 374 aa. (Access number ABE60718). *NCBI*, 14 April 2006.
74. **B Ramesh** and Muneendra Kumar Singh (2006). Effect of seed priming with K<sub>2</sub>SO<sub>4</sub> on germination and seedling growth in rice. *Agric. Sci. Digest* **26**(4): 261-264.
75. **B Ramesh** and S P Sharma (2007). Anatomical characterization of reduced culm length mutants in barley. *Indian J Crop Sci.* **2**(1): 183-185
76. **B Ramesh** and Ravinder Kumar (2007). Induced leaf mutants in lentil (*Lens culinaris* Medik.). *Indian J. Crop Sci.*, **2** (2): 417-418.
77. **B Ramesh** and Praveen Kumar (2007). Somatic chromosome analysis in four species of grain amaranth. *Indian J. Crop Sci.*, **2** (2): 373-378.
78. Vikrant Nain, Anju Verma, Neeraj Kumar, Priyanka Sharma, **B Ramesh** and P Ananda Kumar (2008). Cloning of an ovule specific promoter from *Arabidopsis thaliana* and expression of β- glucuronidase. *Indian J Exp. Biol.*, **46**: 207- 211.
79. Atul Grover, **B Ramesh** and P C Sharma (2008). New microsatellite markers in potato. *American Journal of Potato Research* (communicated).
80. **B Ramesh**, Indravir Singh and Bateshwar Kumar (2008). Effect of planting date on agronomic and yield performance of early maturing rice mutant of Pusa Basmati –1. *ORYZA* (communicated)

## **BOOKS**

1. **Genetics and Biotechnology in Crop Improvement**- PK Gupta, SP Singh, HS Balyan, PC Sharma and **B Ramesh** (Eds.). Rastogi Pub, Meerut, India, 1998. 414 pp.
2. **Plant Biotechnology: Molecular Marker Technology** - PK Gupta *et al.* (Eds.). Dept. of Ag. Botany, C C S University, Meerut, 2000. 80 pp.
3. **Practical Manual for Cytology, Cytogenetics and Molecular Cytogenetics** – **B Ramesh**, 2006. 24 pp.

#### PAPERS PRESENTED IN SYMPOSIA / CONGRESS / CONFERENCES

1. **B Ramesh** and T V S Reddi (1976). Radiosensitivity of segregating lines in rice. Proc. 63<sup>rd</sup> Indian Sci Cong: Part III - Botany, p125. (3-8 Jan, Andhra Univ., Visakhapatnam).
2. V R Reddi, **B Ramesh** and T V S Reddi (1977). Increased rate of cytogenetic effects by gamma rays on chemical mutagen treated seed of rice. Proc. 64<sup>th</sup> Indian Sci Cong: Part III - Botany, p154. (3-8 Jan, Utkal Univ, Bhubaneswar)
3. V R Reddi, **B Ramesh** and T V S Reddi (1977). Effect of gamma rays on M2 chemical mutagen treated seed of rice. Proc. Symp. on 'Improving crop and animal productivity by nuclear and allied techniques', New Delhi: p 40-41.
4. **B Ramesh** and T V S Reddi (1978). Effect of EMS on pre-soaked seeds of two varieties of rice. Proc. 65<sup>th</sup> Indian Sci Cong : Part III - Botany, p176.
5. T V S Reddi, V R Reddi and **B Ramesh** (1978). Chromosome associations at pachytene in interchange heterozygotes of rice (*Oryza sativa* L.). Proc. 65<sup>th</sup> Indian Sci Cong: Part III - Botany, p111-112.
6. **B Ramesh**, V R Reddi and T Jhansi Rani (1978). Induced alterations in chiasma frequency of some varieties and hybrids of rice (*Oryza sativa* L.). Proc. Symp. 'Researches in Plant cytogenetics' (Andhra Univ Waltair): p35
7. T V S Reddi, V R Reddi and **B Ramesh** (1978). Chlorophyll mutations induced in three varieties of rice by chemical mutagens. Proc. Symp. 'Researches in Plant cytogenetics' (Andhra Univ, Waltair): p35-36.
8. **B Ramesh**, V R Reddi and T V S Reddi (1979). Gamma ray induced fine grain mutants in the rice variety IR 8. DAE Symp. on 'Role of induced mutations in crop improvement' (Osmania Univ, Hyderabad): p54.
9. **B Ramesh** and V R Reddi (1980). Comparison of gamma ray and EMS induced chlorophyll deficient mutations in rice variety IR 8. Proc. III Botanical Conference, JIBS, 59 (Symp. Vol.): 108 (28-30 Dec, Lucknow Univ.)

10. **B Ramesh** and V R Reddi (1981). Comparison of cytological effects of EMS on dry and pre-soaked seed of the rice variety IR 8. Proc. 68<sup>th</sup> Indian Sci Cong: Part III - Botany, p91. (3-8 Jan, BHU, Varanasi)
11. **B Ramesh**, V Dange and G M Reddy (1983). Cytogenetic and enzymatic studies of diploid and tetraploid hybrids of rice. XV Int. Congress of Genetics, New Delhi: p685.
12. **B Ramesh** (1985). Studies on somatic chromosomes of rice. Proc. 72<sup>nd</sup> Indian Science Congress: Part III - Botany.
13. **B Ramesh** (1985). Cytogenetic effects of gamma rays on chemical mutagen treated seed of rice. Proc. Symp. on 'Cytogenetic Research: Achievements and Relevance' (Osmania Univ, Hyderabad)
14. **B Ramesh** (1986). Response of second cycle of mutagen treatment in rice: gamma ray effects on chemical mutagen treated seed. Proc. 1<sup>st</sup> All India Conference on Cytology & Genetics (Bangalore Univ, Bangalore).
15. G M Reddy and **B ramesh** (1986). Chromosomal variation in callus cultures and its application in rice improvement. Proc. First Int. Symp. on 'Chromosome Engineering in Plants' (China, 1986).
16. **B Ramesh** (1989). Radiation effects on rice plants at the panicle primordia stage of plant development. Proc. 76<sup>th</sup> Indian Sci Cong : Part III - Botany, (Madurai Kamaraj Univ, Madurai). p235-236.
17. **B Ramesh** and Salimuddin (1990). Somatic karyotype analysis in lentil. Proc, Int. Symp. on 'Chromosome Research: From Microscope to Molecule', Calcutta: p54.
18. **B Ramesh** and V P Singh (1990). Somatic karyotype analysis in barley (*Hordeum vulgare* L.). Proc. 7<sup>th</sup> Congress of Cytologists & Geneticists, Kalyani: p88.
19. Salimuddin and **B Ramesh** (1990). Intraspecific nuclear DNA variation in lentil (*Lens culinaris* Medik.). Proc. 7<sup>th</sup> Congress of Cytologists & Geneticists, Kalyani: p88-89.
20. **B Ramesh** and T Sharma (1991). Intervarietal nuclear DNA variation in barley (*Hordeum vulgare* L.). Proc. ISGPB Golden Jubilee Symp. on 'Genetic Research and Education: Current Trends & the Next Fifty Years', New Delhi: Vol. I, 17-18.
21. Salimuddin and **B Ramesh** (1991). Karyotype analysis in six species of *Sesbania*. Proc. Symp. on 'Environment and Development: A Scientific Approach' (19-21 Dec., CCSU, Meerut). National Acad. of Sciences, India, p44.
22. **B Ramesh** and Susheel Kumar (1992). Nuclear DNA estimations in rice (*Oryza sativa* L.). Proc. 79<sup>th</sup> Indian Sci Cong: Part III - Botany, p114. (3-8Jan, MS Univ, Baroda)
23. Salimuddin and **B Ramesh** (1992). Karyological studies in Macrosperma varieties of *Lens culinaris* Med. Proc. 4<sup>th</sup> India Conference on Cytology & Genetics, Bangalore.
24. Salimuddin and **B Ramesh** (1993). Relationship between chromatin volume, DNA content and radiosensitivity in lentil. Proc. 80<sup>th</sup> Indian Sci Cong: Part III - Botany, p146-147(3-8 Jan, Goa).
25. **B Ramesh** and M P S Hudda (1993). A study on variability and associations involving protein content, amino acids and grain yield in sorghum. Proc. 80<sup>th</sup> Indian Sci Cong: Part III - Botany, p172.
26. **B Ramesh** and N K Sharma (1993). Karyotype analysis in *Vicia faba* L. Proc. 8<sup>th</sup> Congress of Cytologists & Geneticists (15-18 Oct., Berhampur).

27. **B Ramesh** and Mukesh Kumar Sharma (1993). Cytomorphological studies on F1 intraspecific hybrids in barley. Proc. 8<sup>th</sup> Congress of Cytologists & Geneticists (15-18 Oct., Berhampur).
28. **B Ramesh** and S Dhananjay (1994). Developmental morphology of induced semidwarf and stunted mutants in lentil. Proc. 81<sup>st</sup> Indian Sci Cong: Part III - Botany, p114 -115. (3-8 Jan, Jaipur).
29. **B Ramesh** and S Dhananjay (1994). Developmental morphology of induced globe mutant in lentil. Proc. Int. Symp. on 'Pulses Research' (2-6 April, New Delhi)
30. Salimuddin and **B Ramesh** (1994). Radiation induced chromosomal interchanges in lentil. Proc. Int. Symp. on 'Pulses Research' (2-6 April, New Delhi)
31. **B Ramesh** (1994). Intraspecific variation in nuclear DNA content in *Lens culinaris* Med., *Hordeum vulgare* L. and *Oryza sativa* L. Proc. Int. Symp. on 'Plant Biotechnology Applications' at CPMB, Osmania Univ., Hyderabad (12- 15 Sep.)
32. **B Ramesh** and Mukesh Kumar Sharma (1994). Inheritance of early growth habit and fertility on lateral florets in crosses involving cultivated and wild barleys. Proc. 5<sup>th</sup> All India Conf. on Cytology & Genetics (26-28 Sept., Kurukshetra Univ., Kurukshetra).
33. **B Ramesh**, Brij Kumar Prasad and V P Singh (1996). Induced semidwarf, high yielding mutant in barley. Proc. 2<sup>nd</sup> Int. Crop Science Congress (17-24 Nov. 1996, National Acad. of Agric. Sciences, New Delhi).
34. Neeraj Kumar Tyagi and **B Ramesh** (1998). Developmental studies on induced plant height mutants in lentil (*Lens culinaris* Med.). Proc. 85<sup>th</sup> Indian Sci Cong: Part I - Agric. Sci., p. 51 (3-8 Jan, Osmania Univ., Hyderabad).
35. **B Ramesh** and Bhupendra Singh (1998). Contribution of different tillers in a plant to grain yield in rice. Int. Symp. on 'Rice Research for 21<sup>st</sup> Century' (5-7 Feb, CRRI, Cuttack).
36. A Kumar, R K Varshney, J K Roy, P K Gupta, H S Balyan, P C Sharma and **B Ramesh** (1998). Microsatellites for marker assisted selection in bread wheat: Possibilities, achievements and limitations. 2<sup>nd</sup> Annual Convention of ADNAT on 'DNA technologies: Forensic and other applications', p.37. (Feb. 23-24, CCMB, Hyderabad)
37. J K Roy, A Kumar, R K Varshney, P K Gupta, H S Balyan, P C Sharma and **B Ramesh** (1998). Development of putative molecular marker(s) for protein content in bread wheat using STS-PCR. 2<sup>nd</sup> Annual Convention of ADNAT on 'DNA technologies: Forensic and other applications', p. 44. (Feb. 23-24, CCMB, Hyderabad)
38. P K Gupta, H S Balyan, P C Sharma, **B Ramesh**, A Kumar, R K Varshney and J K Roy (1998). Towards tagging of some quality grain traits in bread wheat. 18<sup>th</sup> International Congress of Genetics, p. 53 (Abstract no. 3P 71). (10-15 Aug., Beijing, China)
39. Bateshwar Kumar and **B Ramesh** (1999). Genetic variability, character associations and path analysis of yield and yield traits in rice. Proc. 86<sup>th</sup> Indian Sci Cong: Part I - Agric. Sci., p.4 - 5 (3-8 Jan, Anna Univ., Chennai).
40. **B Ramesh**, Pradeep Kumar and Bateshwar Kumar (2000). Genetic divergence in cultivated lentil (*Lens culinaris* Med.). Proc. 87<sup>th</sup> Indian Sci Cong: Part I - Agric. Sci., p.102 (3-8 Jan, Pune Univ., Pune).

41. **B Ramesh** (2000). Studies towards development of a low tillering ideotype for increasing grain yield potential in rice. Proc. Int. Rice Research Conference 2000, IRRI, Philippines (30 March - 4<sup>th</sup> April, 2000).
42. Bateshwar Kumar and **B Ramesh** (2001). Interaction between spike development and internode elongation in barley. Proc. 8<sup>th</sup> All India Conf. on Cytology & Genetics (23-25 Jan 2001, Bangalore Univ, Bangalore).
43. H S Balyan, S Kumar, **B Ramesh**, P K Gupta and M Lakshmikumaran (2001). Physical distribution of repetitive DNA sequences on mitotic chromosomes of *Sesbania sesban* (L.) Merr. and *Brassica nigra* Koch. 14<sup>th</sup> International Chromosome Conference, 4 -8 Sept., 20001, Wurzburg, Germany.
44. **B Ramesh**, Bateshwar Kumar, Brij Kumar Prasad and V P Singh (2001). Dwarf mutations in barley: Pathways of height reduction. Proc. ISGPB Diamond Jubilee Symp. on 'Hundred years of Post-Mendelian Genetics and Plant Breeding - Retrospect and Prospects' (6-9 Nov. 2001, I A R I, New Delhi). pp. 213 - 214.
45. S Kumar, N Kumar, HS Balyan, **B Ramesh** and PK Gupta (2002). Identification of 1BL'1RS translocation in some important wheat varieties using cytogenetic and molecular approaches. Proc. Natl. Symp. on 'Functional Genomics' (23-24 Feb. 2002, CCMB, Hyderabad, India). p.13.
46. Bateshwar Kumar and **B Ramesh** (2004). Variation for chlorophyll content in induced mutants of barley. 91<sup>st</sup> Indian Science Congress (Pune University, Pune, 3-7 Jan, 2004).
47. Atul Grover, PC Sharma and B Ramesh (2004). Cross amplification potato simple sequence repeats in other Solanaceae members. National Conf. on 'Biotech 2004: Challenges & Opportunities' (IGIB, New Delhi, 13-15 Oct., 2004).
48. Munendra Kumar Singh and **B Ramesh** (2005). Effect of seed priming with K<sub>2</sub>SO<sub>4</sub> on germination and seedling growth in rice. Proc. 92<sup>nd</sup> Indian Science Congress (3-7 Jan. 2005, Ahmedabad). Section I: Agriculture & Forestry Sciences, p.49 (Abstract).
49. Praveen Kumar and **B Ramesh** (2005). Genetic variability and character associations for seedling and some mature plant traits in rice. Proc. National Symp. on 'Basmati Rice Research: Current Trends & Future Prospects' Sept. 6-7, 2005 at SVBP Univ. of Agriculture & Technology, Modipuram, Meerut. (Abstract)
50. Megh Raj and **B Ramesh** (2005). Genetic studies on induced mutants in lentil (*Lens culinaris* Medik.). 4<sup>th</sup> International Food Legumes Research Conference (IARI, New Delhi, 18-22 October, 2005).
51. Atul Grover, P C Sharma and **B Ramesh** (2006). DNA fingerprinting and molecular mapping of microsatellite markers in potato. Proc. Int. Symp. on 'Frontiers in Genetics and Biotechnology: Retrospect and Prospect' (Osmania University, Hyderabad, 8-10 January, 2006)
52. Atul Grover, **B Ramesh** and P C Sharma (2006). Development of microsatellite markers for mapping and characterization of potato genome. Proc. National Symp. on 'Molecular Breeding' (Indian Institute of Vegetable Research, Varanasi, 20-21 March, 2006).
53. Neeraj Kumar Tyagi, Sheetal Yadav, Aprajita Garg, N Nadakumar, T Mohapatra, K V Prabhu, **B Ramesh** and A K Singh.(2006). Development of provitamin A rich *indica* rice lines in the genetic background of Swarna through marker assisted backcross breeding. Proc. 2<sup>nd</sup> International Rice Congress 2006 (IARI, New Delhi, 9-13 October, 2006). (Abstract ID:1973; p. 281).

54. **B Ramesh** (2007). Biotechnology in genetic improvement of crops: Molecular markers. Proc. National Seminar on 'New strides in microbiology, biochemistry, biotechnology and agriculture science. (Doon (PG) Paramedical College & Hospital, Dehradun, 3-4 Feb., 2007). (abstract, KN 26-28).
55. P C Sharma, **B Ramesh**, M Roorkiwal, K Meena and A Grover (2008). Microsatellite dynamics in closely related genomes. XX Int. Cong. Genetics (accepted)
56. Lata Sharma, B M Prasanna, N K Singh, S K Guleria, J C Sekhar and **B Ramesh** (2008). Sikkim Primitives' reveal significant phenotypic and molecular distinctness from other maize landraces in India. Poster Presentation at the 10<sup>th</sup> Asian Regional Maize Workshop held at Makassar, Indonesia during 20-23, October, 2008. **The paper received 'Best Poster' award.**