

CURRICULUM VITAE

Name : RAMESH BANDARUPALLI
Father's Name : Sri B. Veeraiah
Date of Birth : 14 June 1952
Nationality : Indian
Designation : **Professor & Head**, Dept. of Genetics & Plant Breeding, &
Dean, Faculty of Agriculture
Institution : Ch. Charan Singh University, Meerut
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Academic Career:

Degree	Year	Division	University	Main subjects
Diploma in Molecular Biology	1996	--	CIMMYT, MEXICO	Molecular Marker Applications to Plant Breeding
Ph. D.	1979	--	Andhra Univ., Visakhapatnam	Botany (Cytogenetics)
M. Sc.	1974	FIRST	- do -	Botany
B. Sc.	1972	FIRST	- do -	Botany, Zoology, Chemistry
P.U. C.	1969	FIRST	- do -	Biology, Chemistry, Physics
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:

w.e.f. 17.12.2009 **Dean, Faculty of Agriculture, Ch. Charan Singh University, Meerut**
w.e.f. 01.07.2010 **Head, Dept. of Genetics & Plant Breeding, CCSU**
13.07.2003 onwards **Professor in Genetics & Plant Breeding at C C S Univ, Meerut**
1995 - 2003 **Reader in Genetics & Plant Breeding 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**
1986 - 1987 **UGC Research Associate at Andhra Univ., Visakhapatnam ; and
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 at CCSU**

Teaching Experience:

Total 30 years (23 years at C C S University, Meerut; and
7 years at Andhra University, Visakhapatnam).

Research experience:

32 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, lentil and amaranthus.
- Cytological studies in *Vicia faba* and *Sesbania* species
- Interspecific hybrids in rice, barley and amaranths
- 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	Title of the project	Funding Agency	Total Grant (Rs.)	Duration (in years)	Period
Principal Investigator	Cytotaxonomical studies of the genus <i>Oryza</i> L.	DST, Govt. of India	16.57 lacs	4	June 1996 - June 2000
Co- Principal Investigator	Development of PCR based hypervariable STMS markers for tagging of glutenin genes in wheat	DBT, Govt. of India	77.29 lacs	5	Mar. 1995 - Mar. 2000
Principal Investigator	Development of Microsatellite markers in Potato	ICAR Govt. of India	15.71 lacs	3 1/2	June 2001 - Dec. 2004

Publications:

Research papers in national & international refereed journals: **90** (List enclosed)
Papers presented in conferences/seminars/symposia: **58**
Books - **3** (Edited & authored)

Research students supervised:

Ph D - Awarded - 10; Submitted - 3; Working - 3.
M Phil (Genetics & Plant Breeding) - 23
M Sc Ag. (Genetics & Plant Breeding) - 20
M Sc (Biotechnology) - 65
M Sc Ag. (Seed Technology) -- 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 26th to 30th 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 March 30 - April 5, 2000.

Participation in Conferences / Symposia:

Attended **55** 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:

- **Dean, Faculty of Agriculture, Ch. Charan Singh University, Meerut w.e.f. 17.12. 2009.**
- **Head, Department of Genetics & Plant Breeding, C C S university, Meerut w.e.f. 1.7.2010.**
- 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 18th Jun to 31st Aug 2000 and from 8.1.2002 to 12.9.2004.
- **Coordinator**, Department of Seed Science & Technology, C C S University, Meerut from 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.
- 23rd **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. (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. (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. (as **Member**, National Organizing Committee).
- National Symp. on ‘**Biotechnology: Vision 2020**’ organized by College of Biotechnology, S V B P University of Agri. & Tech., Modipuram, Meerut during 8-9 December, 2008. (as **Member**, National Advisory Board).
- Indo-Chinese workshop on ‘**Plant Genomics and Quantitative Genetics**’ organized by the Department of Genetics & plant breeding, Ch. Charan Singh University, Meerut during 14-16 February, 2009.
- National Seminar cum workshop on ‘**Bioresources: Conservation & Utilization**’ organized by the Life Sciences departments of Ch. Charan Singh University, Meerut during 27-29 March, 2009 (as **Co-Convener** of the Organizing Committee)

Other achievements:

- 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) GENETICS & PLANT BREEDING (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)
6. **Mr. Megh Raj:** Genetic studies on some induced mutants in lentil (*Lens culinaris* Med.). (2009)

Submitted:

1. **Lata Sharma:** Phenotypic and molecular characterization of selected Indian maize landraces/locals and allele mining for *Teosinte branched-1* gene in maize (Jan. 2010)
2. **Linu Dubey:** Molecular and functional genomic analyses of drought stress tolerance in maize. (July 9, 2010)

Under submission:

1. **Ms. K Sushmita:** Gene pyramiding in *Bt* transgenic tomato and development of novel Bt toxin by protein engineering. (Date of Registration: 20.09.2008; Regn. No. Res-2/A/700594)

Working:

1. **Mr. Ashish Kumar Mall:** Genetic and molecular characterization of GR-2 based backcross derived Golden Rice lines in the genetic background of commercial rice variety Swarna. (Date of Registration: 20.09.2008; Regn. No. Res-2/A/81067)
2. **Mr. Anuj Kumar:** Functional gene expression pattern of bacterial blight resistance genes *Xa21* and *xa13* and dwarfism gene *sd1* in reconstituted basmati rice. (Date of Registration: 09.05.2009; Regn. No. Res-2/A/090388)

(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)

Submitted:

1. **Mr. Girish Kumar Goswami:** Isolation, characterization and heterologous expression of xylanase encoding gene(s). (Jan. 2010)

II. 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

III. M SC AG. SEED SCIENCE & TECHNOLOGY PROJECTS: 30

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

IV. 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 n 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.

V. 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*)
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 K₂SO₄ 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*)
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.
20. Mr. Dinesh Kumar (2009). Genetic divergence for yield and its component traits in finger millet (*Eleusine coracana* L.).
21. Mr. Kausar Ali (2009). Variability, heritability and correlations among agro-morphological traits in finger millet (*Eleusine coracana* (L.) Gaertn.).
22. Mr. Vikrant Tyagi (2009). A study on genetic variability, heritability, correlation and genetic divergence in foxtail millet (*Setaria italica* (L.) P Beauv.).
23. Mr. Sandeep Kumar (2009). Agro-morphological study on induced mutants and mutant hybrids in lentil (*Lens culinaris* Medik.).

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. Reprtr.* **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. Reprtr.* **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. Reprtr.* **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 Newsllett.* **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
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