

## Dr. RAJEEV K. VARSHNEY



### I. PERSONAL DETAILS

Principal Scientist- Applied Genomics/ SubProgramme Leader,  
Generation Challenge Programme  
International Crops Research Institute for the Semi-Arid Tropics (ICRISAT),  
Patancheru-502 324, A.P., India  
Date and place of birth: 13 July, 1973, Bahjoi (Distt Moradabad), U.P., India;  
Citizenship: India  
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### II. ACADEMIC QUALIFICATIONS

Degree & year	University/Board	Division/ Marks	Major subject
<b>Ph.D.</b> (Jan 2001)	CCS University, Meerut, India	-	Agricultural Botany (Molecular Biology)
<b>M.Sc.</b> (1995)	AMU, Aligarh, India	I (81%)	Botany (Genetics, Plant Breeding & Molecular Biology)
<b>B.Sc. Honours</b> (1993)	AMU, Aligarh, India	I (68%)	Botany
<b>Intermediate</b> (1990)	U.P. Board, Allahabad, India	I (72%)	Biology
<b>High School</b> (1988)	U.P. Board, Allahabad, India	I (67%)	Science

### III. PROFESSIONAL EXPERIENCE

Position / duration	Institution	Area of research
<b>Leader,</b> SubProgramme 2 (Aug 2007- todate)	Generation Challenge Programme (GCP), hosted by CIMMYT, Mexico (50% position)	Genomics towards Gene Discovery
<b>Principal Scientist</b> (Dec 2008-todate)	International Crops Research Institute for the Semi Arid Tropics (ICRISAT), Patancheru, India	Applied genomics (Genomics assisted breeding for semi arid tropic crops)
<b>Senior Scientist</b> (Sept 2005-Nov 2008)	International Crops Research Institute for the Semi Arid Tropics (ICRISAT), Patancheru, India	Applied genomics (Genomics assisted breeding for semi arid tropic crops)
<b>Research Scientist</b> (Jan 2001- Sep 2005)	Institute of Plant Genetics & Crop Plant Research (IPK), Gatersleben, Germany	Barley genomics (Structural, comparative and functional genomics)
<b>Research Fellow</b> (Oct 1995-Dec 2000)	Ch Charan Singh University (CCSU), Meerut, India	Genetic and physical mapping of SSR markers and trait mapping in bread wheat

### IV. FELLOWSHIPS / SCHOLARSHIPS/ HONOURS/ AWARDS

- # **INSA-Young Scientist Medal-2008** of Indian National Science Academy (INSA)
- # **Associate Fellow** (→2008) of National Academy of Agricultural Sciences, India (NAAS)
- # **Young Scientist Platinum Jubilee Award-2007** of National Academy of Sciences, India (NASI)
- # **Promising Young Scientist Platinum Jubilee Award-2007 and 2008** by ICRISAT.
- # **Resource Mobilizer Award (in team)-2006, 2007** by ICRISAT.
- # **Best Poster Award - 2009** for the poster of *PhD Scholar* of Rajeev Varshney, presented at International Conference Grain Legumes: Quality improvement, Value addition and Trade
- # **Certificate of Honour and Cash Award-2000** by Prof. M. S. Swaminathan, FRS for best Research Poster presented as a PhD scholar in a National Symposium at MS Swaminathan Research Foundation, Chennai.
- # **Certificate of Honour-1997** by Directorate of Wheat Research (DWR), India for carrying out outstanding research in the area of wheat genetics as a PhD scholar

- # **First Position- University Gold Medal-1995** by Aligarh Muslim University, India for securing first position in M.Sc. in the Life Science Faculty.
- # **School Merit Scholarship – 1988-1990** by UP State Government during Intermediate (11<sup>th</sup> and 12<sup>th</sup> Std) as a Meritous Student.

## V. INTERNATIONAL RECOGNITION

- # **Leader, Subprogramme 2** on Genomics towards Gene Discovery of Generation Challenge Programme, a CGIAR Challenge Programme (→ 2007)
- # **Associate Editor** for Theoretical and Applied Genetics (*impact factor 3.49*) published by Springer (→ 2009)
- # **Associate Editor** for BMC Plant Biology (*impact factor 4.03*), an open-access journal →2009
- # **Associate Editor** for BMC Genetics (*impact factor 2.35*), an open-access journal →2009
- # **Associate Editor** for Molecular Breeding (*impact factor 2.008*), published by Springer →2008
- # **Associate Editor** for Euphytica (*impact factor 1.403*), published by Springer→2005
- # **Subject Editor** for Plant Breeding (*impact factor 1.28*) journal, published by Blackwell →2008
- # **Associate Editor** for Crop and Pasture Science (*impact factor 1.13*) journal, published by CSIRO →2009
- # **Associate Editor** for Plant Genetic Resources: Characterization and Utilization (CABI, UK) →2005
- # **Associate Editor** for Journal of Plant Biochemistry and Biotechnology, IOS Press, India →2008
- # **Member of Editorial Boards** for Genes, Genomes and Genomics (Global Science Books, UK) →2006
- # **Invited Editor** for April 2010 issue of **Current Opinion in Plant Biology** (*eds.* DR Cook and **RK Varshney**)
- # **Invited Editor** for special issue (Plant Genomics and Quantitative Genetics) of **Molecular Breeding** (*eds.* P K Gupta, HS Balyan and **RK Varshney**), to be published in 2009
- # **Steering Committee Member for the Food and Agriculture Organization (FAO) of United Nations sponsored** international conference entitled “Application of Biotechnologies in Developing Countries (ABDC-10), Guadalajara, Mexico” to be held in 2009 (<http://www.fao.org/biotech/abdc/conference-home/en/>) → 2008
- # **Member on International Organizing Committee for V International Grain Legume Genetics and Genomics Meeting-** 2010, to be held in Asilomar, USA
- # **Member of Organizing and Programme Committee** for 2<sup>nd</sup> International Symposium on Genomics of Plant Genetic Resources (GPGR2), Bologna, Italy (<http://www.gpgr2.com/>)
- # **Founder, Organizer, Member of Overall Planning Groups (OPG) and Coordinator** of Recombinational Analysis coordination area of International Chickpea Genetics and Genomics Consortium (ICGGC; <http://www.icrisat.org/gt-bt/ICGGC/homepage.htm>)
- # **Coordinator**, ‘Recombinational Analysis’ of International Triticeae Mapping Initiative (ITMI; <http://wheat.pw.usda.gov/ITMI/>); 2004- 2007
- # **Coordinator**, International ‘Triticeae EST-SSR Coordination’ (<http://wheat.pw.usda.gov/ITMI/EST-SSR/>) of ITMI (2003- 2008)
- # **Organizer**, Genomics-Assisted Breeding Workshop in Plant and Animal Genome Conference, USA (<http://www.intl-pag.org/18/18-gen-breeding.html>) →2006
- # **Organizer**, Generation Challenge Programme Workshop in Plant and Animal Genome Conference, USA (<http://www.intl-pag.org/17/17-cp.html>) →2008
- # **Organizing Secretary**, Third International Conference for Peanut Genomics and Biotechnology on Advances in Arachis through Genomics and Biotechnology (AAGB-2008), Nov 4-8 2008, ICRISAT, India (<http://aagb2008.icrisat.org>)
- # **Secretary for** Fourth International conference of the Peanut research community on “Advances in Arachis through Genomics and Biotechnology (AAGB-2009), Oct 19-22 2009, ICRISAT, Mali (<http://aagb2009.icrisat.org>)
- # **Organizer** for International Workshop on Next Generation Sequencing (NGS) Data Analysis, Jul 21-23 2009, ICRISAT, India ([http://www.icrisat.org/gt-bt/NGS\\_workshop.htm](http://www.icrisat.org/gt-bt/NGS_workshop.htm))
- # **Coordinating Committee Member**, International Peanut Genomics Committee, USA to coordinate peanut genomics research and organize the international conferences and meetings → 2006
- # **Member of Technical Programme Committee** for Advances in Arachis Genomics Meeting, Atlanta, USA (<http://www.peanutsusa.com/>) (2007)

- # **Elected Member of Executive Council** of Association for DNA Fingerprinting and Other DNA Technologies (ADNAT), Hyderabad, India → 2007
- # **Invited Speaker/ Chairman/ Facilitator** in several international conferences/ symposiums/meetings like Plant and Animal Genome (USA, >7 times), International Triticeae Symposium (Czech Republic), Gene Revolution (Italy), Generation Challenge Programme Annual Research Meeting (Brazil, South Africa, Thailand, Malwai, Mali, Paris), Grain Legume Technology Transfer Platform Conference (France), Grain Legume Conference (Portugal, 2 times), Interdrought-II (Italy), Peanut Genomics meeting (USA), PlantGEM (Lisbon, Portugal), Royal Society-India Workshop, 40<sup>th</sup> Crop Science Society Meeting of South Korea, etc.).
- # **Referee for research grant application** - National Science Foundation (USA), Seventh Seventh Research Framework Programme of European Commission (EC), Department of Biotechnology and Department of Atomic Energy of India, Arab Science & Technology Funds (ASTF), UAE
- # **Reviewers for several journals**- like Theor Appl Genet, Mol Gen Genom, Plant Breed, Mol Breed, Heredity, Crop Science, BMC Genomics/ Bioinformatics/ Plant Biology/ Genetics, Planta.

#### **VI. RESEARCH PROJECTS/ GRANTS:**

- # Leader – Centre of Excellence (CoE) sponsored by Department of Biotechnology, Govt. of India
- # Principal Investigator on ten research projects, funded by National Fund and Department of Biotechnology, Govt of India, Syngenta Foundation, Generation Challenge Programme and Bill and Melinda Gates Foundation.
- # Co-Investigator / Collaborator at present for four research projects, funded by Generation Challenge Programme, Dept of Biotechnology, Govt of India,

#### **VII. TEACHING AND RESEARCH EXPERIENCE**

- # Taught M.Sc. (Ag. Botany) and M.Sc. (Biotechnology) students at Ch. Charan Singh University, Meerut
- # Supervised 3 Masters/Praktikum students from Martin Luther University, Halle, University of Jena, Jena and Technical University of Dresden, Dresden and one visiting scientist from Ethiopia at IPK-Gatersleben, Germany
- # Supervised/currently supervising at ICRISAT, Patancheru.
 

Visiting Scientist/Post Doctoral Fellow	:	8
Ph.D. Students (2 already completed)	:	9
Masters/ Under Graduate students	:	10

#### ***Recognized faculty for teaching and supervising MSc/PhD student***

- # Osmania University, Hyderabad
- # University of Agricultural Sciences, Bangalore
- # University of Agricultural Sciences, Dharwad
- # Jawaharlal Nehru Technological University, Hyderabad
- # Acharya N G Ranga Agricultural Univeristy, Hyderabad
- # Barkatullah University, Bhopal
- # CCS Haryana Agricultural University, Hisar

#### **VIII. PUBLICATIONS**

***More than 120 research papers, articles or chapters have been published in journals of repute with high impact factor (upto 15) e.g. PNAS USA, Curr Opin Plant Biol, Trends in Plant Sciences, Trends in Biotechnology, Theoretical and Applied Genetics, Plant Journal, BMC Bioinformatics, BMC Plant Biology, Molecular Breeding, Functional and Integrative Genomics, Plant Science, etc. and in books published by Kluwer, Springer.***

***As per GoogleScholar, the cumulative impact factor (CIF) and citation index (CI) of his papers is 189+ and 2100+, respectively and h – index is 22.***

## **IX. BOOKS**

### ***Edited books:***

1. **'CEREAL GENOMICS'**  
*Eds* PK Gupta and **R K Varshney**  
**Kluwer**, 2004, pages 639
2. **'MODEL PLANTS, CROP IMPROVEMENT'**  
*Eds* **R K Varshney** and RMD Koebner  
**CRC Press Inc, Florida, USA**; 2006, pages 336.
3. **'GENOMICS ASSISTED CROP IMPROVEMENT',**  
**Vol I- Genomics Approaches and Platforms,**  
*Eds* **R K Varshney** and R Tuberosa  
**Springer**; 2007, pages 380 (ISBN 978-1-4020-6294-0)
4. **'GENOMICS ASSISTED CROP IMPROVEMENT',**  
**Vol II- Genomics Applications in Crops,**  
*Eds* **R K Varshney** and R Tuberosa  
**Springer**: 2007, pages 504, (ISBN 978-1-4020-6296-4)
5. **'ROOT GENOMICS',**  
*Eds* Antonio Costa de Oliveira **and R K Varshney**  
**Springer**: 2010 (*in press*)

## **LIST OF PUBLICATIONS OF RAJEEV K. VARSHNEY**

### **2009**

1. **Varshney RK\***, Bertoli DJ, Moretzsohn M, Vadez V, Krishnamurthy L, Aruna R, Nigam SN, Moss B, Kannan S, Ravi K, He G, Knapp SJ, Hoisington DA (2009) The first SSR-based genetic linkage map for cultivated groundnut (*Arachis hypogaea* L.). **Theor Appl Genet** 118: 729-739 (\*corresponding author)  
**Times Cited: 8 IF: 3.49**
2. Guo P, Baum M, Grando S, Ceccarelli S, Bai G, Li R, Korff M, **Varshney RK**, Graner A and Valkoun J (2009). Differentially expressed genes between drought-tolerant and drought-sensitive barley genotypes in response to drought stress during the reproductive stage. **Jour Experimental Botany** 60:3531-3544  
**Times Cited:1 IF:4.001**
3. **Varshney RK\***, Close TJ, Singh NK, Hoisington DA, Cook DR (2009) Orphan legume crops enter the genomics era! **Curr Opin Plant Biol** 12: 202–210 (\*corresponding author) **IF: 9.591**
4. Gulati P, **Varshney RK**, Viridi JS (2009). Multilocus variable number tandem repeat analysis as a tool to discern genetic relationships among strains of *Yersinia enterocolitica* biovar 1A. **Jour Appl Microbiol** 107: 875 – 884  
**IF: 2.028**
5. Jayashree B, BhanuPrakash A, Anusha J, Srinivasa Reddy P, Nayak S, **Varshney RK\*** (2009). Perl module and PISE wrappers for the integrated analysis of sequence data and SNP features. **BMC Research Notes** 2:92 (\*corresponding author)
6. Leal-Bertoli SCM, Jose ACVF, Alves-Freitas DMT, Moretzsohn MC, Guimaraes PM, Nielen S, Vidigal BS, Pereira RW, Pike J, Favero AP, Parniske M, **Varshney RK**, Bertoli DJ (2009). Identification of

candidate genome regions controlling disease resistance in *Arachis*. **BMC Plant Biology** 9: 112

**IF: 4.03**

7. Nayak SN, Balaji J, Upadhyaya HD, Hash CT, Kavi Kishore PB, Chattopadhyay D, María Rodriguez L, Blair M, Baum M, McNally K, This D, Hoisington DA, **Varshney RK\*** (2009) Isolation and sequence analysis of DREB2A homologues in three cereal and two legume species. **Plant Science** 177: 460-467 (\*corresponding author) **IF: 1.97**
8. Sharma M, **Varshney RK**, Rao JN, Kannan S, Hoisington D, Pande S (2009) Genetic diversity in Indian isolates of *Fusarium oxysporum* f. sp. *ciceris*, chickpea wilt pathogen. **Afr Jour Biotechnol** 8: 1016-1023
9. Tatikonda L, Wani SP, Kannan S, Beerelli N, Sreedevi TK, Hoisington DA, Devi P, **Varshney RK\*** (2009) AFLP-based molecular characterization of an elite germplasm collection of *Jatropha curcas* L., a biofuel plant. **Plant Sci** 176: 505-513 (\*corresponding author) **Times Cited: 1 IF: 1.97**
10. **Varshney RK\*** and Dubey A (2009). Novel genomic tools and modern genetic and breeding approaches for crop improvement. **J. Plant Biochem Biotechnol** 18: 127-138 (\*corresponding author) **IF: 0.37**
11. **Varshney RK\***, Hoisington DA, Nayak SN, Graner A (2009) Molecular plant breeding: methodology and achievements. In: **Methods in Molecular Biology: Plant Genomics** (Eds Somers D, Langridge P, Gustafson PJ), The Humana Press, Totowa, NJ, USA in press (\*corresponding author) pg 283-304
12. **Varshney RK\***, Nayak SN, May GD, Jackson SA (2009). Next-generation sequencing technologies and their implications for crop genetics and breeding. **Trends Biotechnol** 27: 522-30 (\*corresponding author) **IF: 6.624**
13. **Varshney RK\***, Pande S, Kannan S, Mahender T, Sharma M, Gaur P, Hoisington DA (2009) Assessment and comparison of AFLP and SSR based molecular genetic diversity in Indian isolates of *Ascochyta rabiei*, a causal agent of ascochyta blight in chickpea (*Cicer arietinum* L.). **Mycological Progress** 8: 87-97 (\*corresponding author) **IF:1.791**
14. **Varshney RK\***, Mahendar T, Aruna, R, Nigam SN, Neelima K, Vadez V and Hoisington DA (2009) High level of natural variation in a groundnut (*Arachis hypogaea* L.) germplasm collection assayed by selected informative SSR markers. **Plant Breeding** 128:86-94 (\*corresponding author) **IF:1.28**
15. **Varshney RK\***, Thudi M, May GD, Jackson SA (2009) Legume genomics and breeding. **Plant Breeding Reviews** 33:257-304 (\*corresponding author)
16. **Varshney RK\***, Hiremath PJ, Lekha PT, Kashiwagi J, Balaji J, Deokar AA, Vadez V, Xiao Y, Srinivasan R, Gaur PM, Siddique KHM, Town CD and Hoisington DA (2009) A comprehensive resource of drought- and salinity- responsive ESTs for gene discovery and marker development in chickpea (*Cicer arietinum* L.) **BMC Genomics** 10:523 (\*corresponding author)
17. Gautami B, Ravi K, Lakshmi Narasu M, Hoisington DA, **Varshney RK\*** (2009). Novel set of groundnut SSRs for genetic diversity and interspecific transferability. **International journal of Integrative Biology (IJIB)** 7(2): 100-106 (\*corresponding author) **IF:3.93**
18. Datta S, **Varshney RK** (2009) Genomics Enabled Crop Improvement in Food Legumes. In: Milestones in Food Legumes Research (Eds M Ali, Kumar S), Indian Institute of Pulse Research (IIPR), Kanpur, pp 249-289
19. Saxena RK, Saxena KB, Kumar RV, Hoisington DA, **Varshney RK\*** (2009) SSR-based diversity in elite pigeonpea genotypes for developing mapping populations to map resistance to *Fusarium* wilt and sterility mosaic disease. **Plant Breeding, (in press)** (\*corresponding author) doi: 10.1111/j.1439-0523.2009.01698.x (in press) **IF: 1.28**

20. Saxena RK, Prathima C, Saxena KB, Hoisington DA, Singh NK, **Varshney RK\*** (2009) Novel SSR markers for polymorphism detection in pigeonpea (*Cajanus* spp.). **Plant Breeding**, (*in press*) (\*corresponding author) doi: 10.1111/j.1439-0523.2009.01680.x **IF:1.28**
21. **Varshney RK\***, Penmetsa RV, Dutta S, Kulwal PL, Saxena RK, Datta S, Sharma TR, Rosen B, Carrasquilla-Garcia N, Farmer AD, Dubey A, Saxena KB, Gao J, Fakrudin B, Singh MN, Singh BP, Wanjari KB, Yuan M, Srivastava RK, Kilian A, Upadhyaya HD, Mallikarjuna N, Town CD, Bruening GE, He G, May GD, McCombie R, Jackson SA, Singh NK, Cook DR (2009c) Pigeonpea genomics initiative (PGI): an international effort to improve crop productivity of pigeonpea (*Cajanus cajan* L.). **Molecular Breeding** (*accepted*). doi: 10.1007/s11032-009-9327-2 (\*corresponding author) **IF: 2.008**
22. Salem KFM, **Varshney RK**, Röder MS, Börner A (2009) EST-SSR based estimates on functional genetic variation in a barley (*Hordeum vulgare* L.) collection from Egypt. **Genet Resour Crop Evol** doi:10.1007/s10722-009-9489-0 **IF: 0.967**
23. Bhardwaj R, Sandhu JS, Livinder Kaur, Gupta SK, Gaur OM and **Varshney R** (2009) Genetics of ascochyta blight resistance in chickpea **Euphytica** doi 10.1007/s10681-009-0020-7 **IF: 1.403**
24. Flowers TJ, Gaur PM, Gowda CLL, Krishnamurthy L, Samineni S, Siddique KHM, Turner NC, Vadez V, **Varshney RK** and Colmer TD (2009). Salt sensitivity in chickpea. **Plant Cell and Environment** doi: 10.1111/j.1365-3040.2009.02051.x **IF:4.666**
25. Sharma R, Rao VP, **Varshney RK**, Prasanth VP, Kannan S and Thakur RP (2009) Characterization of pathogenic and molecular diversity in *Sclerospora graminicola*, the causal agent of pearl millet downy mildew. **Archives of Phytopathology and Plant Protection** (*in press*)
26. **Varshney RK\***, Pazhamala L, Kashiwagi J, Gaur PM, Krishnamurthy L, Hoisington DA (2009) Genomics and physiological approaches for root trait breeding to improve drought tolerance in chickpea (*Cicer arietinum* L.) In: Root Genomics (Eds de Oliveira A D), Springer, The Netherlands, *in press*. (\*corresponding author)
27. **Varshney RK\*** (2009) Gene-based marker systems in plants: high throughput approaches for discovery and genotyping. In: “Molecular Techniques in Crop Improvement, Vol II, (Eds Jain SM, Brar, DS), Springer, The Netherlands, (*in press*) (\*corresponding author)
28. Ravi K, Upadhyaya HD, Dwivedi SL, Hoisington DA and **Varshney RK\*** (2009). Genetic relationships among 7 sections of genus *Arachis* studied by using SSR markers. **BMC Plant Biology** (*accepted*) (\*corresponding author) **IF: 4.03**
29. **Varshney RK\***, Thudi M, Manthena R, Wani SP, Tatikonda L and Hoisington DA (2009). The first AFLP-based molecular diversity study in Pongamia [*Pongamia pinnata* (L.) Pierre] – a biofuel plant species. **Plant Science** (*communicated*) (\*corresponding author) **IF: 1.97**
30. Witzel K, Weidner A, Surabhi GK, **Varshney RK**, Kuenze G, Buck-Sorlin GH, Andreas Börner A, Mock HP (2009) Comparative analysis of the grain proteome fraction in barley genotypes with contrasting salinity tolerance during germination. **Plant Cell and Environment** (*Submitted after revision*) **IF: 9.591**
31. Raju NL, Gnanesh BN, Lekha PT, Balaji J, Pande S, ByregowdaM, Singh NK and **Varshney RK\*** (2009). The first set of EST resource for gene discovery and marker development in pigeonpea (*Cajanus cajan* L.). **BMC Plant Biology**. (*Communicated*) (\*corresponding author) **IF:4.03**
32. Mahendar T, Senthilvel S, Bottley A, Hash CT, Reddy AR, Feltus AF, Paterson AH, Hoisington DA and **Varshney RK\*** (2009). A comparative assessment of the utility of PCR-based marker systems in pearl millet by using three electrophoresis systems. **Euphytica** (*submitted after revision*) (\*corresponding author) **IF: 1.403**

33. Glaszmann JC, Kilian G, Upadhyaya HD, **Varshney RK** (2009) Accessing genetic diversity for crop improvement. **Curr Opin Plant Biol** (*Communicated*) **IF: 9.591**

## **2008**

34. **Varshney RK\***, Salem KFM, Baum M, Röder MS, Graner A, Börner A (2008) SSR and SNP diversity in a barley germplasm collection. **Plant Genetic Resources: Characterization and Utilization** 6: 167-174 (\*corresponding author) **Times Cited:1**
35. **Varshney RK\***, Thiel T, Sretenovic-Rajicic T, Baum M, Valkoun J, Guo P, Grando S, Ceccarelli S, Graner A (2008) Identification and validation of a core set of informative genic SSR and SNP markers for assaying functional diversity in barley. **Molecular Breeding** 22: 1-13 (\*corresponding author) **Times Cited: 4 IF:2.008**
36. Marcel TC, **Varshney RK**, Barbieri M, Jafary H, De Kock MJD, Graner A and Niks RE (2008) A high-density consensus map of barley to compare the distribution of QTLs for partial resistance to *Puccinia hordei* and of defence gene homologues. **Theor Appl Genet** 114: 487-500 **Times Cited: 25 IF: 3.49**
37. Chabane K, **Varshney RK**, Graner A, Valkoun J (2008) Generation and exploitation of EST-derived SSR markers for assaying molecular diversity in durum wheat populations. **Genetic Resources and Crop Evolution** 55: 869-881 **Times Cited: 1 IF:0.967**
38. Sharma HC, **Varshney RK**, Gaur PM, Gowda CLL (2008) Potential for using morphological, biochemical, and molecular markers for resistance to insect pests in grain legumes. **Jour of Food Legumes** 21: 211-217
39. Guo P, Baum M, **Varshney RK**, Graner A, Grando S, Ceccarelli S (2008) QTLs for chlorophyll and chlorophyll fluorescence parameters in barley under post-flowering drought. **Euphytica** 163: 203-214 **Times Cited: 6 IF:1.403**
40. Castillio A, Budak H, **Varshney RK**, Dorado G, Graner A, Hernandez P (2008) Transferability and polymorphism of barley EST-SSR markers for introgression and phylogenetic analysis in *Hordeum chilense*. **BMC Plant Biology** 8: 97 **Times Cited: 1 IF:4.03**
41. Singh R, Sharma P, **Varshney RK**, Sharma SK and Singh NK (2008) Chickpea improvement: Role of wild species and genetic markers. **Biotechnology and Genetic Engineering Reviews** 25: 267-314
42. Cuc LM, Mace E, Crouch J, Quang VD, Long TD, **Varshney RK\*** (2008) Isolation and characterization of novel microsatellite markers and their application for diversity assessment in cultivated groundnut (*Arachis hypogaea*). **BMC Plant Biology** 8: 55 (\*corresponding author) **Times Cited: 11 IF: 4.03**
43. Upadhyaya HD, Dwivedi SL, Baum M, **Varshney RK**, Udupa SM, Gowda CLL, Hoisington DA, Singh S (2008) Genetic structure, diversity, and allelic richness in composite collection and reference set in chickpea (*Cicer arietinum* L.). **BMC Plant Biology** 8: 106 **Times Cited: 1 IF:4.03**

## **2007**

44. **Varshney RK\***, Marcel TC, Ramsay L, Russell J, Röder M, Stein N, Waugh R, Langridge P, Niks RE, Graner A (2007) A high density barley microsatellite map with 775 SSR loci. **Theor Appl Genet** 114: 1091-1103 (\*corresponding author) **Times Cited: 29 IF: 3.49**
45. **Varshney RK\***, Beier U, Khlestkina E, Kota R, Korzun V, Röder M, Graner A, Börner A (2007) Single nucleotide polymorphisms in rye: discovery, frequency and applications for genome mapping and diversity studies. **Theor Appl Genet** 114: 1105-1116 (\*corresponding author) **Times Cited: 24 IF: 3.49**
46. **Varshney RK\***, Chabane K, Hendre PS, Aggarwal RK, Graner A (2007) Comparative assessment of EST-SSR, EST-SNP and AFLP markers for evaluation of genetic diversity and conservation of genetic resources

using wild, cultivated and elite barleys. **Plant Science** 173: 638-649 (\*corresponding author)

**Times Cited: 6 IF: 1.97**

47. **Varshney RK\***, Langridge P, Graner A (2007) Application of genomics for molecular breeding of wheat and barley. **Advances in Genetics** 58: 122-155 (\*corresponding author) **Times Cited: 10 IF: 4.00**
48. **Varshney RK**, Coyne CJ, Swamy P, Hoisington D. (2007) Molecular identification of genetically distinct accessions in the USDA chickpea core collection. **Pisum Genetics** 39: 32-33
49. Kota R\*, **Varshney RK\***, Prasad M, Zhang H, Stein N, Graner A (2007) EST-derived single nucleotide polymorphism markers for assembling genetic and physical maps of the barley genome. **Functional and Integrative Genomics** 8: 223-233 (\*joint first authors) **Times Cited: 11 IF: 3.812**
50. Mace ES, **Varshney RK**, Mahalakshmi V, Seetha K, Gafoor A, Leeladevi Y, Crouch JH (2007) In silico development of simple sequence repeat markers within the aeschynomeneid/ dalbergoid and genistoid clades of the Leguminosae family and their transferability to *Arachis hypogaea*, groundnut. **Plant Science** 174: 51-60 **Times Cited: 3 IF: 1.97**
51. Aggarwal RK, Hendre PS, **Varshney RK**, Bhat PR, Krishnakumar V, Singh L (2007) Identification, characterization and utilization of EST-derived genic microsatellite markers for genome analyses of coffee and related species. **Theor Appl Genet** 114: 359-372 **Times Cited: 22 IF: 3.49**
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