

Curriculum Vitae- Kulvinder S. Gill

640 SW Sundance Ct, Pullman, WA 99163

Phone: (509) 432-3265, Email: geneticist17@gmail.com

EDUCATION

June 86 - Dec. 90	PhD (Genetics), Kansas State University, Manhattan, KS
Aug. 81 - Dec. 83	MS (Plant Breeding), Punjab Agricultural University, India
Aug. 76 - May 81	BSc [Honors] (Agronomy), Punjab Agricultural University, India

POSITIONS HELD

March 14 - Current	Professor & Director, Climate Resilient Wheat Innovation lab, WSU
Aug. 04 – Feb. 14	Professor & Vogel Endowed Chair in Wheat Breeding & Genetics, WSU
Aug. 02 – 04	Associate Professor & Vogel Endowed Chair in Wheat Breeding & Genetics, WSU
July 01- July 02	Associate Professor, Department of Agronomy, U Nebraska
Aug. 96 - June 01	Assistant Professor, Department of Agronomy, U Nebraska
Jan. 94 - July 96	Senior Scientist, Department Plant Pathology, Kansas State U
Jan. 91 - Dec. 93	Research Associate, Department of Plant Pathology, Kansas State U
Jan. 84 - Jan. 86	Research Assistant, Punjab Agricultural U, India

HONORS AND AWARDS

- ◆ Outstanding Agricultural Scientist award, 2019, Association of Agricultural Scientists of Indian Origin (AASIO), Satellite organization to ASA, CSSA, SSSA
- ◆ Sigma Xi Outstanding Young Scientist Award, 2001
- ◆ Junior Faculty for Excellence in Research award (2000), U Nebraska
- ◆ Gold Medalist (1983) Punjab Agricultural University, India

TEACHING EXPERIENCE

- Since 2014: Crops 555- Epigenetics in crop improvement, 2 credit
- 2013: Crops 411 - Plant Environment Interaction, 3 credit
- 2007 to 2013: Crops 505 - Advanced Classical and Molecular Breeding, 3 credit
- 2005 to 2013: Mbios 498 - Undergraduate research
- 2006 : Crops 512 - Special topics, statewide tour
- 2004 to 2006: Crops/Mbios 554 - Chromosome Structure and Function, 3 credits
- 1996 to 2002: Agro 918 - Molecular Cytogeneticist
- 1996 to 2002: Agro 925 - Molecular Crop Improvement

KEY RESEARCH PROJECTS

- ◆ USAID, \$16.2 million - CRW: Developing heat tolerant and climate resilient wheat (PI)
- ◆ NSF-BREAD, 1.6 million - Developing alternate dwarfing gene system for abiotic stress tolerance in wheat (PI)
- ◆ USAID, \$992,714 - A “Smart” Strategic Coalition for Sustainable Agricultural and Economic Development in Indonesia - Component 1 (co-PI)
- ◆ Life Science Discovery Fund, WA, \$1.9 million - Wheat for Celiac Patients and Improved Disease Prevention (co-PI)

PATENTS

1. Kulvinder Gill and Kanwardeep Singh 2018. Eliminating the linkage drag: a novel method for targeted alien gene transfer. US Patent Reference # 62/ 760,775

2. Dilpreet Singh, S Rustgi, IC Burke, JP Yenish, KS Gill, D Pittmann 2009. Molecular marker tags for 2,4-D resistance in Asterids. US-patent Ref. #7980-82730-01.

CULTIVARS

1. Resilience CL+, 2016 (Two-gene Clearfield Soft White Winter)
2. Curiosity CL+, 2013 (Two-gene Clearfield Soft White Winter)
3. Mela CL+, 2013 (Two-gene Clearfield Soft White Winter)

GERMPLASMS

36 germplasm lines developed and deposited to GRIN

PUBLICATIONS: Source Google Scholar, Feb, 2021

Total citations = 9443, Since 2016 = 2194
H -index = 50, Since 2016 = 26
i10-index = 123, Since 2016 = 66
Number of papers with Impact Factor >9.7 = 8
Number of papers with Impact Factor >5.0 = 27
Number of papers with Impact Factor >3 = 49

Papers with >300 citations = 5
Papers with >200 citations = 8
Papers with >100 citations = 24
Papers with >50 citations = 42

Research Gate RG score = 41.54

Refereed Journal Articles

134. Rawale Kanwardeep, MA Khan, KS Gill 2021. A new approach for alien gene transfer in wheat via transient induction of homoeologous recombination. *Molecular Cell* (submitted). (Impact factor: 11.89)
133. Rizwana Maqbool, Ragupathi Nagarajan, Jasdeep S. Mutti, and Kulvinder S Gill 2021. A GRAS domain encoding gene controls both tillering and spikelet number per spike in wheat. *Journal of Experimental Botany* (submitted). (Impact factor: 5.78)
132. Khan Adeel, Munir Ahmad, Zahid Akram, and Kulvinder Singh Gill 2021. Association mapping of physiological traits potentially involved in terminal heat stress tolerance. *Plant Breeding* (submitted). (Impact factor: 1.39)
131. Khan Adeel, Ahmad Munir, Ahmed Mukhtar, Gill Kulvinder, Akram Zahid. 2021. Association analysis for agronomic traits in wheat under terminal heat stress". *Saudi Journal of Biological Sciences* (Submitted). (IF: 2.82).
130. Yaswant kumar pankaj, Rajeev Kumar, Lalit Pal, Kulvinder Singh Gill, Ragupathi Nagarajan, Sonali Sangwan, Vishnu Kumar, Sourav Panigrahi 2021. Mapping QTLs for phenotypic and morpho-physiological traits related to grain yield under heat stress conditions in wheat (*Triticum aestivum* L.). *Crop Breeding and Applied Biotechnology* (Submitted) (Impact Factor: 1.10).

129. Amita Mohan, Nathan P Grant, William F Schillinger, and Kulvinder S Gill 2021. Characterizing reduced height wheat mutants for traits affecting abiotic stress and photosynthesis during seedling growth. *Physiologia Plantarum* (in press). (Impact Factor: 3.19).
128. Alexander Blackburn, Gaganjot Sidhu, William F Schillinger, Daniel Skinner, and Kulvinder Gill 2021. QTL mapping using GBS and SSR genotyping reveals genomic regions controlling wheat coleoptile length and seedling emergence. *Euphytica* (in press). (Impact Factor: 1.62)
127. Gill KS, N Kumar, HS Randhawa, K Murphy, AH Carter, CF Morris, RW Higginbotham, DA Engle, SO Guy, DJ Lyon, TD Murray, XM Chen, WF Schillinger 2020. Registration of 'Resilience CL+', Imazamox Tolerant Soft White Winter Wheat. *Journal of Plant Registrations* (In press). (Impact factor: 0.65)
126. Bheemanahalli, Raju; Somayanda, Impa; Krassovskaya, Inga; Vennapusa, Amaranatha; Gill, Kulvinder; Obata, Toshihiro; Jagadish, Krishna S V. 2020. Enhanced N-metabolites, ABA and IAA-conjugate in anthers instigate heat sensitivity in spring wheat. *Physiologia Plantarum* (doi:10.1111/ppl.13109). (Impact factor: 3.19)
125. Gill KS, Kumar N, Randhawa HS, Carter AH, Morris CF, Baik B-K, Higginbotham RW, Engle DA, Guy SO, Burke I, Lyon D, Murray TD, Chen XM 2020. Registration of 'Curiosity CL+' Soft White Winter Wheat. *Journal of Plant Registrations* 14 (3): 377-387 <https://doi.org/10.1002/plr2.20066>. (Impact factor: 0.65)
124. Gill KS, Kumar N, Randhawa HS, Carter AH, Yenish J, Morris CF, Baik B.-K, Higginbotham RW, Guy SO, Engle DA, Burke I, Chen XM, Murray TD, Lyon D 2020. Registration of 'Mela CL+' Soft White Winter Wheat. *Journal of Plant Registrations* 14 (2) 144-152. <https://doi.org/10.1002/plr2.20006>. (Impact factor: 0.65)
123. Erdayani E, Nagarajan R, Grant N, Gill K 2020. Identification and characterization of the CLPB/HSP100 gene family in bread wheat. *Scientific Reports* 10 (1), 1-17. (Impact Factor: 4.12)
122. Mohan A, Dhaliwal AK, Nagarajan R, Gill K 2019. Molecular Characterization of Auxin Efflux Carrier- ABCB1 in hexaploid wheat. *Scientific Reports*, 9, 1-14. <https://doi.org/10.1038/s41598-019-51482-5>. (Impact Factor: 4.12)
121. Singh K, Khan MA, Gill K 2019. The novel function of the Ph1 gene to differentiate homologs from homoeologs evolved in *Triticum turgidum* ssp. *dicoccoides* via a dramatic meiosis-specific increase in the expression of the 5B copy of the C-Ph1 gene. *Chromosoma*, 128(4), 561-570. <https://link.springer.com/article/10.1007%2Fs00412-019-00724-6>. (Impact Factor: 3.43)
120. Hinojosa L, Kumar N, Gill K, Murphy K 2019. Spectral Reflectance Indices and Physiological Parameters in Quinoa Under Different Irrigation Regimes. *Crop Science*, 59, 1927-1944. <https://dl.sciencesocieties.org/publications/cs/pdfs/59/5/1927>. (13 citations) (Impact Factor: 1.69)
119. Bheemanahalli R, Sumoj VJ, Saripalli G, Prasad PV, Balyan HS, Gupta PK, Gill KS, Jagadish SK 2019. Quantifying the impact of heat stress on pollen germination, seed-set and grain filling in spring wheat. *Crop Science*, 59(2):684-696. (14 citations) (Impact Factor: 1.69)
118. Nathan P Grant, Amita Mohan, Devinder Sandhu, and Kulvinder S Gill 2018. Inheritance and genetic mapping of the reduced height (Rht18) gene in wheat. *Molecular Plant Breeding* 7, 58; doi:10.3390/plants7030058. (8 citations) (Impact factor: not available).

117. Kanwardeep Singh, Johar Singh, Suruchi Jindal, Gaganjot Sidhu, Amandeep Dhaliwal and Kulvinder Gill 2017. PIN1 structural and functional evolution across monocots and dicots. *Functional and Integrative Genomics* DOI: 10.1007/s10142-018-0625-9 (Impact factor: 2.83).
116. Simerjeet Kaur, Xu Zhang, Amita Mohan, Haixiao Dong, Prashant Vikram, Sukhwinder Singh, Zhiwu Zhang, Kulvinder S Gill, Kanwarpal S Dhugga, Jaswinder Singh 2017. Genome-wide association study reveals novel genes associated with culm cellulose content in bread wheat (*Triticum aestivum*, L.). (5 citations) *Frontiers in Plant Sciences* 8: 1913. (Impact factor: 4.49)
115. Raju Bheemanahalli, V.S. John Sunoj, Gautam Saripalli, P.V. Vara Prasad, H.S. Balyan, P.K. Gupta, Kulvinder S. Gill, and S.V. Krishna Jagadish 2017 Quantifying the impact of heat stress on pollen germination, seed-set and grain filling in spring wheat. *Crop Science* 59 (2): 684-696. <https://doi.org/10.2135/cropsci2018.05.0292>. (5 Citations) (Impact factor: 1.69)
114. Bhavya P. Mishra, Rajeev Kumar, Amita Mohan, and Kulvinder S. Gill 2017. Conservation and divergence of Starch Synthase III genes of monocots and dicots. *PLOS ONE* <https://doi.org/10.1371/journal.pone.0189303> (Impact factor: 3.54)
113. Ragupati Nagarajan and Kulvinder S. Gill 2018. Evolution of Rubisco activase gene in plants. *Plant Molecular Biology* 96 (1): 69-87, <https://doi.org/10.1007/s11103-017-0680-y> (18 citations) (Impact factor: 4.08).
112. Aiqing Sun, M Somayanda, John Sunoj, Kanwardeep Singh, P.V. Vara Prasad, Kulvinder Gill, S.V. Krishna Jagadish 2017 Heat stress during flowering affects time of day of flowering, seed-set and grain quality in spring wheat (*Triticum aestivum* L.). *Crop Science* 58 (1): 380-392, doi:10.2135/cropsci2017.04.0221. (32 citations) (Impact factor: 1.69)
111. Simerjeet Kaur, Xu Zhang, Amita Mohan, Haixiao Dong, Prashant Vikram, Sukhwinder Singh, Kanwarpal Singh Dhugga, Zhiwu Zhang, Kulvinder S Gill, Jaswinder Singh 2017 Genome-wide association study reveals novel genes linked to natural variation of culm cellulose content in bread wheat (*Triticum aestivum*, L.). *Frontier Plant Sci.*, 06 November 2017 <https://doi.org/10.3389/fpls.2017.01913>. (Impact factor: 4.49)
110. Jasdeep S. Mutti, Ramanjot Bhullar and Kulvinder S. Gill 2017. Evolution of Gene Expression Balance among Homoeologues of Natural Polyploids. *G3: Genes Genomes Genetics* 7: 1225-1237. doi.org/10.1534/g3.116.038711 (20 citations) (Impact Factor: 2.91)
109. N. Kumar, Harpinder S. Randhawa, Ryan W. Higginbotham, Xianming M. Chen, Timothy D. Murray, and Kulvinder S. Gill. 2017. Targeted and efficient transfer of multiple value-added traits into wheat varieties. *Molecular Breeding* 37:68. DOI: 10.1007/s11032-017-0649-1 (Impact factor: 2.11)
108. Marwa N. M. E. Sanad, Kimberley Garland Campbell and Kulvinder S. Gill 2016. Developmental program impacts phenological plasticity of spring wheat under drought. *Botanical Studies* 57: 35. DOI 10.1186/s40529-016-0149-3. (Impact factor: 1.16)
107. Ritu Batra, Gautam Saripalli, Amita Mohan, Kulvinder Singh Gill, Harindra Singh Balyan, and Pushpendra Kumar Gupta 2016. Comparative structural and functional analysis of AG-Pase in monocots and dicots. *Frontiers in Plant Science* 8:19. DOI:10.3389/fpls.2017.00019 (17 citations) (Impact factor: 4.49).
106. Sethi Sorabh, Johar S. Saini, Amita Mohan, Navreet K Brar, Shabda Verma, Navraj K Sarao, and Kulvinder S Gill 2016. Comparative and evolutionary analysis of alpha-amylase

- gene across monocots and dicots. *Functional and Integrative Genomics* 16 (5): 545-555. (Impact factor: 2.83) (citation 0).
105. Reynolds MP, Quilligan E1, Aggarwal PK, Cavalieri A, Chapman SC, Chapotin SM, Datta SK, **Gill KS**, Jagadish KSV, Koehler AK, Kosina P1, Lafitte R, Mahala RS, Paterson AH, Prasanna BM, Rosegrant MW, Sharma I, Sivasankar S, Vadez V, Valluru RI, Vara Prasad PV, Yadav OP 2016. An integrated approach to maintaining cereal productivity under climate change. *Global Food Security* 8: 9-18. (Impact factor: 3.74) (88 citations).
 104. Simerjeet Kaur, Kanwarpal S Dhugga, Kulvinder Gill, Jaswinder Singh 2016. Comparative analysis of cellulose synthase (CESA) genes reveals novel structural and functional conservation in hexaploid wheat. *PLOS ONE* 11 (1), e0147046 (Impact factor: 3.54) (26 citations)
 103. AK Dhaliwal, A Mohan, G Sidhu, R Maqbool, and KS Gill 2015. An Ethylmethane Sulfonate Mutant Resource in Pre-Green Revolution Hexaploid Wheat. *PLOS ONE* 10 (12), e0145227. (Impact factor: 3.54) (20 citation)
 102. Gaganjot Sidhu, Amita Mohan, Ping Zhang, Amandeep Dhaliwal, Dorris Main, and Kulvinder S. Gill 2015. Sequencing-based high throughput mutation detection in bread wheat. *BMC Genomics* 16: 962. doi:10.1186/s12864-015-2112-1 (15 citation) (Impact factor: 3.86).
 101. Christopher Navarro, Jerott Moore, Alina Ott, Eric Baumert, Amita Mohan, Kulvinder S. Gill and Devinder Sandhu 2015. Evolutionary, Comparative and Functional Analyses of the Brassinosteroid Receptor Protein gene, *Bri1*, in Wheat and its Relation to Other Plant Genomes. *PLOS ONE* (<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0127544>) DOI: 10.1371/journal.pone.0127544. (8 citations) (Impact factor: 3.54) (1 citation)
 100. Amandeep K Dhaliwal, Amita Mohan and Kulvinder S Gill 2014. Structure, function, and Evolution of auxin transporter ABCB1 in Plants and its Relationship to Multi Drug Resistance Gene Family in Animals. *Frontiers in Plant Science* 26 November 2014 | doi: 10.3389/fpls.2014.00657. (Citations 23) (Impact Factor 4.49).
 99. Christopher Navarro, Yang Yang, Amita Mohan, Nathan Grant, Kulvinder S. Gill, Devinder Sandhu 2014. Microsatellites Based Genetic Linkage Map of the Rht3 Locus in Bread Wheat. *Molecular Plant Breeding* 5 (8): 43-46. (Impact Factor: 2.10).
 98. Ramanjot Bhullar, Ragupathi Nagarajan, Harvinder Bennypaul, Gaganpreet K. Sidhu, Gaganjot Sidhu, Sachin Rustgi, Diter von Wettstein, and Kulvinder S. Gill 2014. Silencing of a metaphase I-specific gene results in a phenotype similar to that of the Pairing homeologous 1 (Ph1) gene mutations. *Proc Natl Acad Sci USA* (Online, <http://www.pnas.org/content/early/2014/09/16/1416241111.full.pdf+html> <http://www.pnas.org/content/early/2014/09/16/1416241111/suppl/DCSupplemental>). (Citations 48) (Impact Factor: 9.42)
 97. Sruthi Narayanan, Amita Mohan, Kulvinder S. Gill, P.V. Vara Prasad 2014. Variability for root traits in spring wheat germplasm. *PLOS ONE*: (<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0100317>) (Citations 99) (Impact factor: 3.54).
 96. Nagesh Aswathnarayana Kuravadi, Pranita Bhatele Tiwari, Umesh Kumar Tanwar, Sangharsh Kumar Tripathi, Kanwarpal Singh Dhugga, Kulvinder Singh Gill and Gursharn Singh Randhawa 2013. Identification and characterization of EST-SSR markers in cluster bean (*Cyamopsis* spp.). *Crop Science*: Nov 2013, DOI:10.2135/cropsci2013.08.0522 (Citations 19) (Impact factor: 1.69).
 95. Swati Verma, KS Gill, V Pruthi, KS Dhugga, and GS Randhawa 2013. A novel combination of plant growth regulators for in vitro regeneration of complete plant lets of guar [*Cyamopsis*

- tetragonoloba* (L.) Taub.]. Indian Journal of Experimental Biology 51: 1120-1124. (Citations 5) (Impact factor: 1.16).
94. Nagesh K Aswathnarayana, Pranita Bhatele-Tiwari, Manisha Choudhary, Sangharsh Kumar Tripathi, Kanwarpal S Dhugga, Kulvinder S Gill, and Gursharn S Randhawa 2013. Genetic diversity study of cluster bean (*Cyamopsis Tetragonoloba*, L. Taub) landraces using RAPD and ISSR markers. International Journal of Advanced Biotechnology and Research (ISSN 0976-2612) 4 (4): 460-471 (Impact Factor: 5.73).
 93. Sachin Rustgi, Mustafa N. Shafqat, Neeraj Kumar, P. Stephen Baenziger, M. Liakat Ali, Ismail Dweikat, B. Todd Campbell, and Kulvinder Singh Gill 2013. Genetic Dissection of Yield and Its Component Traits Using High-Density Composite Map of Wheat Chromosome 3A: Bridging Gaps between QTLs and Underlying Genes. PLOS ONE 8 (7): e70526 (39 citation) (Impact factor: 3.54).
 92. PK Gupta, HS Balyan, RK Varshney, Kulvinder S Gill 2013. Development and use of molecular markers for crop improvement. Plant Breeding 132 (5): 431-432. (Citations 13) (Impact factor: 1.39).
 91. Amita Mohan, William F Schillinger, and Kulvinder S Gill 2013. Wheat Seedling Emergence From Deep planting Depths and its Relationship With the Coleoptile Length. PLOS ONE 8 (9): e73314 (Citations 38) (Impact factor: 3.54).
 90. Raman Dhariwal, Gaganpreet Kaur, Johar S Saini, Kulvinder S Gill, Harindra S Balyan, and Pushpendra K Gupta 2012. Identification of an alternate wheat dwarfing gene: wheat homologues of *Arabidopsis Dwarf4* gene. Crop Improvement 39: 13. (Impact factor: 1.72).
 89. Gaganpreet Kaur, Raman Dhariwal, Kanwardeep Singh, Suruchi Jindal, Johar S Saini, Madhu Jindal, and Kulvinder S Gill 2012. Exploring the role of auxin influx carrier gene *AUX1* for development of an improved dwarfing system in wheat. Crop Improvement 39: 215. (Impact factor: 1.72).
 88. Kanwardeep Singh, Suruchi Jindal, Raman Dhariwal, Gaganpreet Kaur, Johar Singh, and Kulvinder S Gill 2012. *In silico* prediction and analysis of *TaPIN1* (Auxin efflux carrier) gene in wheat. Crop Improvement 39: 419. (Impact factor: 1.72).
 87. Suruchi Jindal, Kanwardeep Singh, Gaganpreet Kaur, Raman Dhariwal, Kulvinder S Gill, and Kuldeep Singh 2012. *In silico* prediction and analysis of maximum auxiliary branching (*max2*) gene in *Triticum aestivum* using comparative genomics. Crop Improvement 39: 409. (Impact factor: 1.72).
 86. Deepa Dewan, Navneet Kaur, Kulvinder S Gill, Gursharan S Randhawa 2012. Role of rootless concerning crown and seminal roots (RTCS) gene in wheat: Bioinformatics and molecular approach. Crop Improvement 39: 111. (Impact factor: 1.72).
 85. Navneet Kaur, Deepa Dewan, Kulvinder S Gill and Gursharan S Randhawa 2012. Study role of NRT2 gene in nutrient use efficiency in Wheat through virus induced gene silencing. Crop Improvement 39: 249. (Impact factor: 1.72).
 84. Neway Mengistu, PS Baenziger, KM Eskridge, I Dweikat, SN Wegulo, KS Gill, and A Mujeeb-Kazi 2012. Validation of QTL for grain yield-related traits on wheat chromosome 3A using recombinant inbred chromosome lines. Crop Science 52(4): 1622-1632. (29 citation) (Impact factor: 1.69).
 83. Harvinder S Bennypaul, Jasdeep S Mutti, Sachin Rustgi, Neeraj Kumar, Patricia A Okubara, and Kulvinder S Gill 2012. Virus-induced gene silencing (VIGS) of genes expressed

- in root, leaf, and meiotic tissues of wheat. *Functional and Integrative Genomics*: 12(1): 143-156. (69 Citations) (Impact factor: 2.83).
82. Dilpreet S Brar, Ian C Burke, Joseph P Yenish, Jared Bell, and Kulvinder S Gill 2011. Inheritance and Physiological Basis for 2,4-D Resistance in Prickly Lettuce (*Lactuca serriola* L.). *J Agric Food Chem* 2011 Sep;59 (17): 9417-9423.(25 citations) (Impact factor: 2.85).
 81. PS Baenziger, I Dweikat, KS Gill, K Eskridge, T Burke, M Shah, BT Campbell, ML Ali, N Mengistu, A Mahmood, A Auvuchanon, Y Yen, S Rustgi, B Moreno-Sevilla, A Mujeeb-Kazi, and MR Morris 2011. Understanding Grain Yield: It Is a Journey, Not a Destination. *Czech J Genet Plant Breed* 47: S77–S84. (3 citations) (Impact Factor: 0.47)
 80. Navdeep S Mutti, Adam G Dolezal, Florian Wolschin, Jasdeep S Mutti, Kulvinder S Gill, and Gro V Amdam 2011. IIS and TOR nutrient-signaling pathways act via juvenile hormone to influence honey bee caste fate. *The Journal of Experimental Biology* 214: 3977-3984 doi: 10.1242/jeb.061499. (163 citations) (Impact factor: 2.91)
 79. Hyejin Lee, Sachin Rustgi, Neeraj Kumar, Ian Burke, Joseph P Yenish, Kulvinder S Gill, Diter von Wettsteina, and Steven E Ullrich 2011. Single nucleotide mutation in the barley acetohydroxy acid synthase (AHAS) gene confers resistance to imidazolinone herbicides. *Proc Natl Acad Sci USA* 108 (21): 8909-8913. (64 Citations) (Impact factor: 9.42).
 78. Jasdeep S Mutti, P Stephen Baenziger, RA Graybosch, Roy French, and Kulvinder S Gill 2011. Registration of seven winter wheat germplasm lines carrying *Wsm1* gene for wheat streak mosaic virus resistance. *Journal of Plant Registrations* 5 (3): 414-417. (5 citations) (Impact factor 0.65).
 77. ML Ali, PS Baenziger, ZA Ajlouni, BT Campbell, KS Gill, KM Eskridge, A Mujeeb-Kazi, and I Dweikat 2011. Mapping QTL for agronomic traits on wheat chromosome 3A and a comparison of recombinant inbred chromosome line populations. *Crop Science* 51: 553-566. (27 citations) (Impact factor: 1.69).
 76. Dilpreet S Riar, Sachin Rustgi, Ian C Burke, Kulvinder S Gill, and Joseph P Yenish 2011. EST-SSR development from five *Lactuca* species and their use in studying genetic diversity among *L. serriola* biotypes. *J Heridity* 102(1): 17-28. (42 citations) (Impact factor: 2.0).
 75. Xiaojuan Mi, Kent Eskridge, Dong Wang, P Stephen Baenziger, B Todd Campbell, Kulvinder S Gill, and Ismail Dweikat 2010. Bayesian mixture structural equation modeling in multiple-trait QTL mapping. *Genetics Research* 92: 239-250, doi:10.1017/S0016672310000236 (2 citations) (Impact factor: 0.17)
 74. Xiaojuan Mi, Kent Eskridge, Dong Wang, P Stephen Baenziger, B Todd Campbell, Kulvinder S Gill, Ismail M Dweikat, and JA Bovaird 2010. Regression-Based Multi-Trait QTL Mapping Using a Structural Equation Model. *Statistical Applications in Genetics and Molecular Biology* 9(1): 22 pages, DOI: 10.2202/1544-6115.1552 (1 citations) (Impact factor: 1.72).
 73. Jasdeep S Mutti, Devinder Sandhu, Deepak Sidhu, and Kulvinder S Gill 2010. Dynamic nature of a wheat centromere with a functional gene. *Molecular Breeding* 26 (2): 177-187. (5 citations) (Impact factor: 2.1).
 72. Harpinder S Randhawa, Jaswinder Singh, Peggy G Lemaux, and Kulvinder S Gill 2009. Mapping barley *Ds* insertions using wheat deletion lines reveals high insertion frequencies in gene-rich regions with high to moderate recombination rates. *Genome* 52: 566-575. (4 citations) (Impact factor: 1.42)

71. Ling Zhang, Lisa Lavery, Upinder Gill, Kulvinder Gill, Brian SteVenson, Guiping Yan, Xianming Chen, and Andris Kleinhofs 2009. A cation/proton-exchanging protein is a candidate for the barley *NecS1* gene controlling necrosis and enhanced defense response to stem rust. *Theoretical and Applied Genetics* 118: 385-397. (34 citations) (Impact factor: 3.9).
70. Harpinder S Randhawa, Jasdeep S Mutti, Kim Kidwell, Craig Morris, Xianming Chen and Kulvinder S Gill. 2009 Rapid And Targeted Introgression Of Genes Into Popular Cultivars Using Marker-Assisted Background Selection. *PLOS ONE* 4(6): e5752. (94 Citations) (Impact factor: 3.54)
69. R Brueggeman, A Druka, J Nirmala, T Cavileer, T Drader, N Rostoks, A Mirlohi, H Benny-paul, U Gill, D Kudrna, C Whitelaw, A Kilian, F Han, Y Sun, KS Gill, B Steffenson, and A Kleinhofs 2008. The stem rust resistance gene *Rpg5* encodes a novel protein with nucleotide binding site, leucine-rich and protein kinase domains. *Proc Natl Acad Sci USA* 105: 14970-14975. (149 Citations) (Impact factor: 9.42).
68. Gaganpreet K Sidhu, Sachin Rustgi, Mustafa N Shafqat, Diter von Wettstein, and Kulvinder S Gill 2008. Fine structure mapping of a gene-rich region of wheat carrying *Ph1*, a suppressor of crossing over between homoeologous chromosomes . *Proc Natl Acad Sci USA* 105(15): 5815-5820. (34 Citations) (Impact factor: 9.42)
67. M Ali, J Rajewski, PS Baenziger, KS Gill, KM Eskridge and I Dweikat 2008. Assessment of genetic diversity and relationship among a collection of US sweet sorghum germplasm by SSR markers. *Molecular Breeding* 21(4): 497-509. (215 Citation) (Impact factor: 2.10).
66. P Dhungana, KM Eskridge, PS Baenziger, BT Campbell, KS Gill, and I Dweikat 2007. Analysis of gene-by-environment interaction in wheat using a structural equational model and chromosome substitution lines. *Crop Science* 47: 477-484. (47 Citations) (Impact factor: 1.69).
65. S Chao, 13 co-authors, KS Gill, JP Gustafson, SF Kianian, NLV Lapitan, HT Nguyen, ME Sorrells, PE McGuire, CO Qualset, and OD Anderson 2005. Use of a Large-Scale Triticeae EST Resource to Reveal Gene Expression Profiles in Hexaploid Wheat (*Triticum aestivum* L.). *Genome* 49: 531-544. (27 Citations) (Impact factor: 1.42)
64. Muharrem Dilbirligi, Mustafa Erayman, B Todd Campbell, Harpinder S Randhawa, P Stephen Baenziger, Ismail Dweikat, and Kulvinder S Gill 2005. High-Density Mapping and Comparative Analysis of Agronomically Important Traits on Wheat Chromosome 3A. *Genomics* 88(1): 74-81. (56 Citations) (Impact factor: 2.39).
63. Muharrem Dilbirligi, Mustafa Erayman and Kulvinder S Gill 2005. Analysis of Recombination and Gene Distribution in 2L1.0 Region of Wheat (*Triticum aestivum* L.) and Barley (*Hordeum vulgare* L.). *Genomics* 86(1): 47-54. (9 Citations) (Impact factor: 2.39).
62. Gill KS 2004. Gene distribution in cereal genomes. *Cereal Genomics*: 361-384 (8 citations).
61. D Mahmood, PS Baenziger, H Budak, KS Gill, and I Dweikat 2004. The Use of micro-satellite markers for detection of genetic similarity among winter bread wheat lines for chromosome 3A. *Theor App Genet* 109: 1494-1503. (27 Citations) (Impact factor: 3.9)
60. Lijia Li, K Arumuganathan, KS Gill, and Yunchun Song 2004. Flow sorting and micro-cloning of maize chromosome 1. *Hereditas* 141: 55-60. (15 Citations) (Impact factor: 1.11).
59. GR Lazo, 20 co-authors, KS Gill, 14 co-authors. 2004. Development of an Expressed Sequence Tag (EST) Resource for Wheat (*Triticum aestivum* L.): EST Generation, Unigene

- analysis, Probe Selection and Bioinformatics for a 16,000-Locus Bin-Delineated Map. *Genetics* 168: 585-593. (118 Citations) (Impact factor: 5.96)
58. D Zhang, 37 co-authors, KS Gill, 6 co-authors 2004. Construction and evaluation of cDNA libraries for large scale EST sequencing in wheat (*Triticum aestivum* L.) *Genetics* 168: 595-608. (72 Citations) (Impact factor: 5.96)
 57. J Ramalingam, 22 co-authors, KS Gill, 14 co-authors 2004. Structure and functional analysis of wheat chromosomes based on expressed sequence tags (ESTs) related to abiotic stresses. *Genome* 49: 1324-1340. (32 Citations) (Impact factor: 1.42)
 56. L Qi, 22 co-authors, KS Gill, 21 co-authors 2004. A chromosome bin map of 16,000 EST loci and distribution of genes among the three genomes of polyploid wheat. *Genetics* 168: 701-712. (429 Citations) (Impact factor: 5.96)
 55. KG Hossain, 22 co-authors, KS Gill, 15 co-authors 2004. A 2148 EST loci map of group 7 chromosomes of wheat (*Triticum aestivum* L.). *Genetics* 168: 687-699. (85 Citations) (Impact factor: 5.96).
 54. Harpinder S Randhawa, 30 co-authors, and KS Gill 2004. Deletion mapping of homoeologous group 6-specific wheat ESTs. *Genetics* 168: 677-686. (94 Citations) (Impact factor: 5.96)
 53. AM Linkiewicz, 22 co-authors, KS Gill, 7 co-authors 2004. A 2500-loci map of wheat homoeologous group 5 provides new insights on gene distribution and colinearity with rice. *Genetics* 168: 665-676. (82 Citations) (Impact factor: 5.96).
 52. KR Miftahudin, 25 co-authors, KS Gill, 22 co-authors 2004. Analysis of Wheat EST Loci on Wheat Chromosome Group 4. *Genetics* 168: 651-663. (95 Citations) (Impact factor: 5.96).
 51. JD Munkvold, 8 co-authors, KS Gill, 17 co-authors 2004. Analysis of the Wheat Chromosome Group 3 Deletion Maps. *Genetics* 168: 639-650. (102 Citations) (Impact factor: 5.96).
 50. EJ Conley, 28 co-authors, KS Gill, 5 co-authors 2004. A 2600-loci map of wheat homoeologous group 2 reveals two interstitial gene-rich islands and provides insight into genome structure and colinearity with rice. *Genetics* 168: 625-637. (99 Citations) (Impact factor: 5.96).
 49. JH Peng, 8 co-authors, KS Gill, 17 co-authors 2004. A Physical Map of Expressed Sequence Tags and Functional Genomics in the Group 1 Chromosomes of Wheat, *Triticum aestivum*. *Genetics* 168: 609-623. (90 Citations) (Impact factor: 5.96).
 48. Mustafa Erayman, D Sandhu, D Sidhu, M Dilbirligi, S Baenziger, and Kulvinder S Gill 2004. Demarcating the Gene-Rich Regions of the Wheat Genome. *Nucleic Acid Research* 32 (12): 3546-3565. (228 Citations) (Impact factor: 9.2).
 47. Yahia M Mater, PS Baenziger, KS Gill, RA Graybosch, LC Whitcher, CA Baker, JE Specht, and Ismail Dweikat 2004. Linkage mapping of powdery mildew and greenbug resistance genes on recombinant 1RS from 'Amigo' and 'Kavkaz' wheat-rye translocations of chromosome 1RS.1AL. *Genome* 47: 292-298. (43 Citations) (Impact factor: 1.42).
 46. B Todd Campbell, PS Baenziger, KM Eskridge, H Budak, NA Streck, A Weiss, KS Gill, and M Erayman 2004. Using Environmental Covariates to Explain Genotype x Environment and QTL x Environment Interactions for Agronomic Traits on Chromosome 3A of Wheat. *Crop Science* 44: 620-627. (56 Citations) (Impact factor: 1.69).

45. Muharrem Dilbirligi, M Erayman, D Sidhu, D Sandhu, and KS Gill 2004. Identification of Wheat Chromosomal Regions Containing Expressed Resistance Genes. *Genetics* 166: 461-481. (103 Citations) (Impact factor: 5.96).
44. Muharrem Dilbirligi and Kulvinder S Gill 2004. Identification and Analysis of Expressed Resistance Gene Sequences in Wheat. *Plant Mol Biol* 53: 771-787. (59 Citations) (Impact factor: 3.9).
43. Deepak Sidhu, and Kulvinder S Gill 2004. Distribution Of Genes And Recombination In Wheat And Other Eukaryotes. *Plant Cell Tissue and Organ culture* 79: 257-270, (45 Citations) (Impact factor: 2.39).
42. Metin Tuna, KP Vogel, Kulvinder S Gill, and K Arumuganathan 2004. C-banding analyses of *Bromus inermis* genomes. *Crop Science* 44: 31-37. (18 citations) (Impact factor: 1.69).
41. Kumlay AM, PS Baenziger, KS Gill, DR Shelton, RA Graybosch, AJ Lukaszewski, and DM Wesenberg 2003. Understanding the effect of rye chromatin in bread wheat. *Crop Science* 43: 1643-1651. (75 Citations) (Impact factor: 1.69).
40. Mark E Sorrells, 33 co-authors, Kulvinder S Gill, C Steber, MK Walker-Simmons, PE McGuire, and CO Qualset 2003. Comparative DNA Sequence Analysis of Wheat and Rice Genomes. *Genome Res* 13(8): 1818-1827. (436 Citations) (Impact factor: 11.35).
39. Eduard D Akhunov, 26 co-authors, Kulvinder S Gill, MK Walker-Simmons, C Steber, Patrick E McGuire, Calvin O Qualset, and Jan Dvorak 2003. The organization and rate of evolution of wheat genomes are correlated with recombination rates along chromosome arms. *Genome Res* 13(5): 753-763. (342 Citations) (Impact factor: 11.35).
38. Eduard D Akhunov, 26 co-authors, Kulvinder S Gill, Patrick E McGuire, Calvin O Qualset, and Jan Dvorak 2003. Synteny perturbations between wheat homeologous chromosomes by gene insertions and deletions in regions of high- and low-recombination. *Proc Natl Acad Sci USA* 100(19): 10836-10841. (147 Citations) (Impact factor: 9.42).
37. B Todd Campbell, PS Baenziger, KS Gill, KM Eskridge, H Budak, M Erayman, I Dweikat, and Y Yen 2003. Identification of QTLs and Environmental Interactions Associated with Agronomic Traits on Chromosome 3A of Wheat. *Crop Science* 43: 1493-1505. (182 Citations) (Impact factor: 1.69).
36. Devinder Sandhu and KS Gill 2002. Gene-Containing Regions of Wheat and the Other Grass Genomes. *Plant Physiology* 128(3): 803-811. (159 Citations) (Impact factor: 6.28).
35. Nils Rostoks, Yong-Jin Park, Wusirika Ramakrishna, Jianxin Ma, Arnis Druka, Bryan A Shiloff, Phillip J SanMiguel, Zeyu Jiang, Robert Brueggeman, Devinder Sandhu, Kulvinder Gill, Jeffrey L Bennetzen, and Andris Kleinhofs 2002. Genomic sequencing reveals gene content, genomic organization, and recombination relationships in barley. *Functional and Integrative Genomics* 2: 51-59. (80 citations) (Impact factor: 2.83)
34. Devinder Sandhu, D Sidhu, and KS Gill 2002. Identification Of Expressed Sequence Markers For A Major Gene-Rich Region Of Wheat Chromosome Group 1 Using RNA Fingerprinting/Differential Display. *Crop Science* 42: 1285-1290. (11 Citations) (Impact factor: 1.69).
33. Devinder Sandhu and KS Gill 2002. Structural and functional organization of '1S0.8 gene-rich region' in Triticeae. *Plant Mol Biol* 48(5): 791-804. (32 Citations) (Impact factor: 3.9).
32. Nedim Mutlu, Dermot P Coyne, Kulvinder S Gill 2001. Cloning, sequencing, and mapping of P-loop containing genes for disease resistance in *Phaseolus vulgaris* L. *Hortscience* 36(3): 562-563. (Impact factor: 0.94).

31. Metin Tuna, KP Vogel, K Arumuganathan, and Kulvinder S Gill 2001. DNA contents and ploidy determination of bromegrass germplasm accessions by flow cytometry. *Crop Science* 41: 1629-1634. (86 Citations) (Impact factor: 1.69).
30. Devinder Sandhu, J Champoux, S Bondareva, and KS Gill 2001. Identification And Physical Localization Of Useful Genes And Molecular Markers To A Major Gene-Rich Region On The Short Arm Of Wheat Homoeologous Group 1 Chromosomes. *Genetics* 157: 1735-1747. (124 Citations) (Impact factor: 5.96).
29. Kulvinder S Gill and D Sandhu 2001. Candidate Gene Cloning And Targeted Marker Enrichment Of Wheat Chromosomal Regions Using RNA Fingerprinting/Differential Display. *Genome* 44: 1-7. (7 Citations) (Impact factor: 1.42).
28. Liza Li, K Arumuganathan, HW Rines, RL Phillips, O Riera-Lizarazu, D Sandhu, Y Zhou, and KS Gill 2001. Flow cytometric sorting of maize chromosome 9 from an oat-maize chromosome addition line *Theor Appl Genet* 102: 658-663. (43 Citations) (Impact factor: 3.9).
27. Metin Tuna, KS Gill, and KP Vogel 2001. Karyotype and C-banding patterns of mitotic chromosomes in diploid bromegrass (*Bromus riparius* Rehm). *Crop Science* 41: 831-834. (24 Citations) (Impact factor: 1.69).
26. K Arumuganathan, L Li, KS Gill, and Y Zhou 2000. Sorting maize chromosomes from oat maize addition lines. *Cytometry (suppl. 10)*: 9-10. (Impact factor: 3.0).
25. MM Shah, Y Yen, KS Gill, and PS Baenziger 2000. Comparisons of RFLP and PCR-Based Molecular Marker Systems to Detect Polymorphism in Wheat. *Euphytica* 114: 135-142. (28 Citations) (Impact factor: 1.61).
24. EV Boyko, KS Gill, L Mickelson-Young, S Nasuda, WJ Raupp, JN Ziegler, S Singh, DS Hasawi, AK Fritz, D Namuth, N.LV Lapitan, BS Gill 1999. A high-density genetic linkage map of *Aegilops tauschii*, the D-genome progenitor of bread wheat. *Theor Appl Genet* 99 (1/2): 16-26. (109 Citations) (Impact factor: 3.9).
23. MM Shah, PS Baenziger, Y Yen, KS Gill, B Moreno-Sevilla, and K Haliloglu 1999. Genetic analysis of agronomic traits controlled by wheat chromosome 3A. *Crop Science* 39: 1016-1021. (33 Citations) (Impact factor: 1.69).
22. MM Shah, KS Gill, PS Baenziger, Y Yen, SM Kaeppler, and HM Ariyaratne 1999. Molecular mapping of loci for Agronomic Traits on Chromosome 3A of bread wheat. *Crop Science* 39 (6): 1728-1732. (164 Citations) (Impact factor: 1.55).
21. Kulvinder S Gill, K Arumuganathan, and J-H Lee 1999. Isolating individual wheat (*Triticum aestivum*) chromosome arms by flow cytometric analysis of ditelosomic lines. *Theor Appl Genet* 98 (8): 1248-1252. (51 Citations) (Impact factor: 3.9).
20. Gill BS, KS Gill, B Friebe, and TR Endo 1997. Expanding genetic maps: reevaluation of the relationship between chiasmata and crossovers. *Chromosomes today*, 283-298.
19. S Naik, KS Gill, VS Prakasa Rao, VS Gupta, SA Tamhankar, S Pujar, BS Gill, and PK Ranjekar 1998. Identification of a STS marker linked to the *Aegilops speltoides*-derived leaf rust resistance gene Lr28 in wheat. *Theor Appl Genet* 97 (4): 535-540. (146 citations) (Impact factor: 3.9).
18. Kulvinder S Gill, BS Gill, TR Endo, and E Boyko 1996. Identification and high-density mapping of gene-rich regions in chromosome group 5 of wheat. *Genetics* 143: 1001-1012. (384 Citations) (Impact factor: 5.96).

17. B Friebe, KS Gill, NA Tuleen, and BS Gill 1996. Transfer of wheat streak mosaic virus resistance from *Agropyron intermedium* into wheat. *Crop Science* 36(4): 857. (47 Citations) (Impact factor: 1.69).
16. Kulvinder S Gill and BS Gill 1996. A PCR-based screening assay of *Ph1*, the chromosome pairing regulator gene of wheat. *Crop Science* 36: 719-722. (37 Citations) (Impact factor: 1.69).
15. Kulvinder S Gill, S Nasuda, and BS Gill 1996. A reliable method of HMW DNA isolation, cloning, and gel blot hybridization in wheat. *Bio/Techniques* 21: 572-576. (1 Citations) (Impact factor: 2.29).
14. Kulvinder S Gill, BS Gill, TR Endo, and T Taylor 1996. Identification and high-density mapping of gene-rich regions in chromosome group 1 of wheat. *Genetics* 144: 1883-1891. (316 Citations) (Impact factor: 5.96).
13. A Van Deynze, J Dubcovsky, KS Gill, M Sorrells, J Dvorak, BS Gill, ES Lagudah, S McCouch, and R Appels 1995. The molecular-cytogenetic map of chromosome 1 in Triticeae species and its relation to chromosomes in rice and oats. *Genome* 38: 45-59. (375 Citations) (Impact factor: 1.42).
12. D Namuth, NLV Lapitan, KS Gill, and BS Gill 1994. Comparative mapping between barley and *Triticum tauschii*. *Theor Appl Genet* 89(7/8): 865-874. (44 Citations) (Impact factor: 3.9).
11. Kulvinder S Gill and BS Gill 1994. Mapping in the realm of polyploidy: the wheat model. *BioEssays* 16: 841. (59 Citations) (Impact factor: 4.72).
10. Sukhwinder Singh, KS Gill, HS Dhaliwal, H Singh, and BS Gill 1994. Towards molecular tagging of karnal bunt resistance gene(s) in wheat. *Plant Biochem Biotech* 3: 79-83. (8 Citations) (Impact factor: 1.35).
9. U. Hohmann, TR Endo, KS Gill, BS Gill 1994. Comparison of genetic and physical maps of group 7 chromosomes from *Triticum aestivum* L. *Mol Gen Genet* 245: 644. (123 Citations) (Impact factor: 2.62).
8. Kulvinder S Gill, BS Gill, TR Endo, and Y Mukai 1993. Fine physical mapping of *Ph1*, a chromosome pairing regulator gene in polyploid wheat. *Genetics* 134: 1231-1236. (120 Citations) (Impact factor: 5.96).
7. Kulvinder S Gill, BS Gill, and TR Endo 1993. A chromosome region-specific mapping strategy reveals gene-rich telomeric ends in wheat. *Chromosoma* 102: 374-381. (206 Citations) (Impact factor: 4.3).
6. Rama S Kota, KS Gill, TR Endo, and BS Gill 1993. Construction of a cytogenetically based physical map of chromosome 1B of common wheat. *Genome* 36: 548-554. (101 Citations) (Impact factor: 1.42).
5. Kulvinder S Gill and BS Gill 1992. A strategy to identify probes that detect a high degree of polymorphism in bread wheat. *Plant Biochem Biotech* 1(2): 81-85. (1 citation) (Impact factor: 1.35).
4. Kulvinder S Gill, EL Lubbers, BS Gill, WJ Raupp, and TS Cox 1991. A genetic linkage map of *Triticum tauschii* (DD) and its relationship to the D genome of bread wheat (AABBDD). *Genome* 34: 362-374. (383 Citations) (Impact factor: 1.42).

3. Kulvinder S Gill and BS Gill 1991. A DNA fragment mapped within the submicroscopic deletion of *Ph1*, a chromosome pairing regulator gene in polyploid wheat. *Genetics* 129: 257-259. (38 Citations) (Impact factor: 5.96).
2. EL Lubbers, KS Gill, TS Cox, and BS Gill 1991. Variation of molecular markers among geographically diverse accessions of *Triticum tauschii*. *Genome* 34: 354-361. (172 Citations) (Impact factor: 1.42).
1. Harcharn S Dhaliwal, B Friebe, KS Gill, and BS Gill 1990. Cytogenetic identification of *Aegilops squarrosa* chromosome additions in durum wheat. *Theor Appl Genet* 79: 769-774. (19 Citations) (Impact factor: 3.9)

Book Chapters/Conference Proceedings (Total 40)

1. NA Kuravadi, S Verma, S Pareek, P Gahlot, S Kumari, UK Tanwar, P Bhatele, M Choudhary, KS Dhugga, KS Gill, V Pruthi, SK Tripathi, and GS Randhawa 2012. Guar: An industrial crop from marginal farms, pages 47 - 62. In: *Agricultural Sustainability: Progress and Prospects in Crop Research*, Gurbir S. Bhullar and Navreet K. Bhullar (Editors), 310 pages. (16 pages).
2. Kulvinder S Gill 2012. Designer Cultivars: Protecting and Increasing Crop Yield In The Changing Climate. Proceedings of the Sustainable Agriculture for Food and Livelihood Security meeting, Ludhiana, India, Nov 27-29, 2012 (Plenary talk proceedings and invited paper)
3. William F Schillinger, Amita Mohan, and Kulvinder S Gill 2012. Winter Wheat Seedling Emergence from the World's Deepest Sowing Depths. Proceedings 12th Congress of the European Society of Agronomy held in Helsinki, Finland, August 20-24, 2012.
4. Kulvinder S Gill 2011. Perfecting variety development. *July issue of the Wheat Life magazine* <http://www.wheatlife.org/>.
5. P Stephen Baenziger, Ismail Dweikat, Kulvinder Gill, Kent Eskridge, Terry Berke, Maroof Shah, B Todd Campbell, ML Ali, Neway Mengistu, A Mahmood, A Auvuchanon, Y Yen, S Rustgi, B Moreno-Sevilla, A Mujeeb-Kazi, and M Rosalind Morris 2010. Understanding Grain Yield: It is a Journey, Not a Destination. 8th International Wheat Conference, St. Petersburg, Russia, 6 pages.
6. Jasdeep S Mutti, Harpinder S Randhawa, and Kulvinder S Gill 2010. Comparison of Conventional Backcross Breeding with Targeted Marker-Assisted Background Selection Based Backcrossing. International Wheat Quality Conference IV, Saskatoon, Canada, June 2-6, 2009, 10 pages.
7. Sachin Rustgi, Neeraj Kumar, and Kulvinder S Gill 2009. Fine mapping and characterization of *Ph1*, the principal regulator of chromosome pairing in wheat. Proceedings of Indo-Chinese workshop on genomics in plant breeding, Meerut, India, Feb 19-23, 2009, four pages.
8. CF Morris, S Li, AD Bettge, GE King, K Garland-Campbell, and KS Gill 2008. Arabinoxylan content of hard winter and spring wheat's of the U.S. Pacific Northwest. The 11th International Wheat Genetics Symposium proceedings Edited by Rudi Appels Russell Eastwood Evans Lagudah Peter Langridge Michael Mackay Lynne, Sydney University Press (3 pages) (4 citations).

9. S Rustgi, MN Shafqat, ML Ali, I Dweikat, PS Baenziger, KS Gill 2008. Genetic dissection of agronomically important traits in bread wheat (*Triticum aestivum* L.) using a chromosome 3A specific RICL population. The 11th International Wheat Genetics Symposium proceedings Edited by Rudi Appels Russell Eastwood Evans Lagudah Peter Langridge Michael Mackay Lynne, Sydney University Press (3 pages)
10. HS Randhawa, JS Mutti, KS Gill 2008. Optimizing marker-assisted background selection for rapid introgression of desirable genes. The 11th International Wheat Genetics Symposium proceedings Edited by Rudi Appels Russell Eastwood Evans Lagudah Peter Langridge Michael Mackay Lynne, Sydney University Press (3 pages)
11. JS Mutti, KS Gill 2008. Fate of duplicated genes in polyploid wheat. The 11th International Wheat Genetics Symposium proceedings Edited by Rudi Appels Russell Eastwood Evans Lagudah Peter Langridge Michael Mackay Lynne, Sydney University Press (8 pages) (1 citation).
12. Kulvinder S Gill 2005. Structural Organization of the wheat genome. In: Frontiers of Wheat Bioscience, pages 151-167, Editor: K. Tsunewaki, Wheat Information Service Press, Japan.
13. Kulvinder S Gill 2004. Gene distribution in cereal genomes. In: Cereal Genomics, p. 361-384 (P.K. Gupta and R. K. Varshney, eds) Kluwer Press, 639 p., ISBN: 1-4020-2358-8. (8 citations)
14. ED Akhunov, 23 co-authors, KS Gill, PE McGuire, CO Qualset, and J Dvorak' 2003. GC composition and codon usage in genes of inbreeding and outcrossing Triticeae species. In: Tenth International Wheat Genetics Symposium, (N.E. Pogna, M. Romaro, E.A. Pogna, and G. Galterio, Eds), SIMI, Italy, pp. 203-206.
15. Jan Dvorak' 28 co-authors, KS Gill, D-W Choi, TJ Close, PE McGuire, and CO Qualset 2003. New insights into the organization and evolution of wheat genomes. In: Tenth International Wheat Genetics Symposium, (N.E. Pogna, M. Romaro, E.A. Pogna, and G. Galterio, Eds), SIMI, Italy, pp. 247-253.
16. Devinder Sandhu, M Erayman, M Dilbirligi, D Sidhu, and KS Gill 2003. The gene-rich regions of the wheat genome. In: Tenth International Wheat Genetics Symposium, (N.E. Pogna, M. Romaro, E.A. Pogna, and G. Galterio, Eds), SIMI, Italy, pp. 308-312.
17. BS Gill, 17 co-authors, KS Gill, 20 co-authors 2003. A transcriptome map of wheat. In: Tenth International Wheat Genetics Symposium, (N.E. Pogna, M. Romaro, E.A. Pogna, and G. Galterio, Eds), SIMI, Italy, pp. 261-264.
18. Muharrem Dilbirligi and KS Gill 2003. Identification and characterization of candidate expressed resistance genes of wheat. In: Tenth International Wheat Genetics Symposium, (N.E. Pogna, M. Romaro, E.A. Pogna, and G. Galterio, Eds), SIMI, Italy, pp. 940-942.
19. Deepak. Sidhu, D Sandhu, and KS Gill 2003. Genes mapping in the functional centromere of the wheat chromosomes. In: Tenth International Wheat Genetics Symposium, (N.E. Pogna, M. Romaro, E.A. Pogna, and G. Galterio, Eds), SIMI, Italy, pp. 1056-1058.
20. JH Peng, 8 co-authors, KS Gill, 17 co-authors 2003. A physical map of expressed sequence tags and functional genomics in the group 1 chromosomes of wheat *Triticum aestivum*. In: Tenth International Wheat Genetics Symposium, (N.E. Pogna, M. Romaro, E.A. Pogna, and G. Galterio, Eds), SIMI, Italy, pp. 1035-1037.

21. AM Linkiewicz, 16 co-authors, KS Gill, 11 co-authors 2003. A two thousand loci physical map of wheat homoeologous group 5. In: Tenth International Wheat Genetics Symposium, (N.E. Pogna, M. Romaro, E.A. Pogna, and G. Galterio, Eds), SIMI, Italy, pp. 986-988.
22. MM Shah and KS Gill 2001. High-density mapping of a gene-rich region present on homoeologous group 5L of wheat and barley. *Barley Genetic Newsletter* 31:18-20.
23. Devinder Sandhu, Svetlana Bondareva, Julie Champoux, and Kulvinder S Gill 2001. Molecular Characterization of a Major Gene –Rich region present on the Short Arm of Wheat Group 1 Chromosomes. *Wheat Genetic Newsletter* 47:287-288.
24. Kulvinder S Gill, PS Baenziger, MM Shah, H Budak, TB Campbell, and M Erayman 2001. Chromosome substitution lines of wheat chromosome 3A. *Wheat Genetic newsletter* 47:285- 286.
25. MM Shah and KS Gill 2000. Marker enrichment and fine mapping of the barley 5H(7) chromosomal region homologous to the *Ph1* gene region of wheat. *Barley Newsletter* 43:21- 23.
26. K Arumuganathan, L Li, KS Gill, and Y Zhou 2000. Sorting maize chromosomes from oat maize addition lines. Proceeding of the XX Congress of the International Society for Analytical Cytology, pp. (88), 20-25 May 2000 at Le Corum in Montpellier, France.
27. K Arumuganathan and KS Gill 2000. Sorting individual chromosomes of corn and wheat. *Genomes*, (J. Perry Gustafson, Ed.), Kluwer Academic/Plenum publishers, pp. 64.
28. Kulvinder S Gill 1999. Chromosome sorting in functional genomics of wheat. Proceedings of the International Triticeae Mapping Initiative (ITMI) meetings, Viterbo, Italy, pp. 26-29.
29. Kulvinder S Gill 1999. Coordinator's report – Consensus composite maps of the Triticeae homoeologous group 6. Proceedings of the International Triticeae Mapping Initiative (ITMI) meetings, Viterbo, Italy, pp. 52-54.
30. Kulvinder S Gill and BS Gill 1998. Molecular cytogenetic explorations into the genome of wheat. In: Proceedings of the 9th International Wheat Genetics Symposium, Saskatoon, Canada, (A.E. Slinkard, Ed), pp. 29-32, University Extension Press, University of Saskatchewan, Canada.
31. EV Boyko, KS Gill, and BS Gill 1998. A high density genetic linkage map of the *Aegilops tauschii* genome and its application in wheat breeding. In: Proceedings of the 9th International Wheat Genetics Symposium, Saskatoon, Canada, (A.E. Slinkard, Ed), pp. 167-169, University Extension Press, University of Saskatchewan, Canada.
32. V Gupta, PK Ranjekar, VSP Rao, BS Gill, S Naik, A Galande, SA Tamhankar, MD Lagu, KS Gill, and R Tiwari 1998. Molecular marker assisted wheat improvement in India: A progress report. In: Proceedings of the 9th International Wheat Genetics Symposium, Saskatoon, Canada, (A.E. Slinkard, Ed), pp. 138-142, University Extension Press, University of Saskatchewan, Canada.
33. BS Gill, KS Gill, B Friebe, and TR Endo 1997. Expanding genetics maps: reevaluation of the relationship between chiasmata and crossovers. In: *Chromosomes Today* 12:283-300, (J.S. Parker and M.J. Puertas, eds), Chapman & Hall, London, UK.
34. PS Baenziger and KS Gill 1996. How biotechnology is changing plant breeding. In: Proceedings of National Plant Breeding Study Workshop, St. Louis, MO, October 1-3, 1996.

35. BS Gill, KS Gill, and B Friebe 1995. Cytogenetic ladder maps and cereal chromosome structure, function and manipulation. In: Classical and Molecular Cytogenetic Analysis. Proceedings of a U.S.-Japan Symposium (W.J. Raupp and B.S. Gill, eds), Kansas Ag Exp Sta Rep 95-352-D, Kansas Ag Exp Sta, Manhattan.
36. BS Gill, B Friebe, KS Gill, and TR Endo 1995. Chromosome engineering and crop improvement in bread wheat. In: Induced mutations and molecular techniques for crop improvement. Proceedings of an International Symposium on the use of induced Mutations and molecular techniques for crop improvement (IAEA-FAO), International Atomic Energy Agency, Vienna, pp. 171-177.
37. BS Gill, KS Gill, WJ Raupp, DE Delaney, RS Kota, LA Young, D Hassawi, AK Fritz, TS Cox, SH Hulbert, RG Sears, TR Endo, D Namuth, and NLV Lapitan 1993. Genetic and physical mapping in *Triticum tauschii* and *Triticum aestivum*. In: Progress in Genome Mapping of wheat and Related Species (D. Hoisington and A. McNab, eds), CIMMYT, El Batan, Mexico, pp. 10-17. (9 citations)
38. S Singh, KS Gill, TS Cox, and BS Gill 1993. An RFLP-based inter- and intra-chromosomal mapping of disease resistance gene(s) in wheat. Proc. 8th International Wheat Genet. symposium, Beijing, China, (Z.S. Li & Z.Y. Xin, eds), pp. 557-567.
39. DM Namuth, NLV Lapitan, KS Gill, and BS Gill 1991. Comparative RFLP mapping between barley and *Triticum tauschii*. Barley Genet Newsletter 21:57-60.
40. Kulvinder S Gill, BS Gill, and EB Snyder 1988. *Triticum araraticum* chromosome substitutions in common wheat, *Triticum aestivum* cv. Wichita. Proc. 7th International Wheat Genetics symposium, Cambridge, (R. Koebner & T.E. Miller), pp. 87-92. (11 Citations).