

***Dr. Bikram S. Gill***  
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Wheat Genetics Resource Center  
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Education:

B.S. Hons	1963	Punjab University, India	Botany
M.S. Hons	1966	Punjab University, India	Botany
Ph.D.	1973	University of California, Davis	Genetics/Plant Breeding

Professional experience:

Visiting Professor	Gurdev Singh Khush Institute of Genetics, Breeding and Biotechnology, PAU, India	2025-present
Bikram S Gill Chair	Kansas State University	2022-present
University Distinguished Professor Emeritus	Kansas State University	2018-present
Honorary Distinguished Professor	King Abdulaziz Univeristy, Saudi Arabia	2011-14
University Distinguished Professor	Kansas State University	1997-2018
Professor of Plant Pathology	Kansas State University	1987-2018
Associate Professor of Plant Pathology	Kansas State University	1982-1987
Director, Wheat Genetics Resource Center	Kansas State University	1984-2018
Assistant Professor of Plant Pathology	Kansas State University	1979-1982
Research Plant Pathologist	Kansas Agricultural Experiment Station	1979-2018
Assistant Professor	Univ of Florida, Gainesville	1978-1979
Lecturer	Univ of California, Riverside	1976-1978
Research Associate	Washington Univ, St. Louis	1975-1976
D.F. Jones Post-doctoral Fellow	Univ of Missouri, Columbia	1973-1974
Graduate Research Assistant	University of California, Davis	1969-1973

Significant Honors, Awards and Service:

Phi Kappa Phi Award for Academic Excellence (U.C. Davis), 1972

D.F. Jones Post-doctoral Fellowship Award, 1973-75.

Editorial board, *Journal of Heredity*, 1982-87.

Visiting Professor, Peoples Republic of China-visited Nanjing Agriculture University, NW Agricultural University and CAAS-Beijing.1986.

Visiting Professor, CSIRO, Division of Plant Industry, Canberra, Australia, 1986-87.

Visiting Professor German Democratic Republic, U.S. National Academy of Sciences, 1987.

Member, International Wheat Genetics Symposium Organizing Committee, 1988-1998.

Chair, International Committee on Wheat Chromosome Banding Nomenclature, 1988-1993.

Founding Member International Triticeae Mapping Initiative, 1989.

Editorial board member, *Plant Breeding*, 1990-2000.

Conoco Distinguished Graduate Faculty Award, Kansas State University, Spring 1990.

Elected Fellow, American Society of Agronomy, 1991.

Visiting Scholar to India, UNESCO-TOKTEN, 1991.

Visiting Professor, Russia and the Ukraine, U.S. National Academy of Sciences, 1992.

UNDP Visiting Scholar, People's Republic of China, July 1993.

Board of Directors, Crop Science Society of America, 1994-1997, Cell Biology and Molecular Genetics,

Elected Fellow, Crop Science Society of America, 1994.

Associate Editor, *Crop Science*, 1995–1998.

Editorial board member, *Theoretical and Applied Genetics*, 1995–2001.

Visiting Professor, Ludwig Maximillian University, Munich, Germany (DAAD Fellow, Germany–U.S. Exchange Program). 1995–96.

University Distinguished Professor, Kansas State University, May 1997.

Higuchi Research Achievement Award/Irvin E. Youngberg Award in the Applied Sciences, University of Kansas, 9 September 1997.

Wheat Man of the Year, Kansas Association of Wheat Growers, 1997.

Fellow, American Phytopathological Society, November 1998.

Crop Science Research Award, Crop Science Society of America, October 1998.

Editorial board member, *Genetics*, 1999–2002.

Outstanding Scientist Award, American Association of Agricultural Scientists of Indian Origin, 1999.

Listed among the "Century's top 10 Sikh Scientists", Panj Darya ([www.panjdarya.com](http://www.panjdarya.com)), a Punjabi magazine (India) special issue on "Sikh history of 20th Century", April 1999.

Founding Member, International Fusarium Head Scab Symposium, 2000–2018.

Fellow, National Academy of Agricultural Sciences of India, December 2001.

Co-founder and co-chair of International Wheat Genome Sequencing Consortium (IWGSC), 2003–2015.

Named among the top 0.5% highly cited scientists in Animal and Plant Sciences by Thomson Reuters, 2006,

Member Working Group on Global Biodiversity Trust on Cereals subcommittee, 2006–2018.

Foreign Fellow, National Academy of Sciences, India, December 2006.

Visiting Professor, INRA, Clermont-Ferrand, France, 2009-10 (4 months),

Associate Editor, G3. Genes/Genomes/Genetics, 2011–2018.

Frank N. Meyer Medal for Plant Genetic Resources, Crop Science Society of America, October 2011.

Honorary Distinguished Professor, King Abdul Aziz University, Kingdom of Saudi Arabia; 2011-2013.

Editorial Board, Agricultural Research, official publication of the National Academy of Agricultural Sciences, India, 2012.

China Friendship Award, Beijing, PR China, September 2012, “China’s highest award given to a foreign scientist for contributing to economic development of China”.

MS Swaminathan Prize, Indian Society for Plant Sciences, New Delhi, India, 2012.

Borlaug lifetime achievement award, CIMMYT, Mexico, citation, “Bikram Gill who has brought valued diversity to global wheat community”, 2013.

Dedicatory Chapter Plant Breeding Reviews: Raupp WJ and Friebe B (2013). Bikram S. Gill, Cytogeneticist and Wheat Man. Plant Breeding Rev 37:1-34. (Edited by J. Janick, Wiley-Blackwell), Citation “Vol 37 of Plant Breeding Reviews is dedicated to Bikram Gill’s illustrious and extraordinary career”, 2013.

Bikram S Gill Chair established by Kansas State University, 2013

Research with full page photo featured in **National Geographic Magazine** October 2014 issue article, “How to feed 9 billion people by 2050”.

Lifetime Achievement Award “Wheat Cytogenetics”, University of Agricultural Sciences, Dharwad and Dr. SW Mensinkai Memorial Educational and Research Foundation, 2016

Inaugural Bikram S Gill Chair Professor, 2022.

Visiting Professor, Gurdev Singh Khush Institute of Genetics, Breeding, and Biotechnology, PAU, India. 2025.

### **International Service, Program Reviews:**

India-USAID Program Review.  
Pakistan-USAID Program Review.  
ICRISAT/Rockefeller Rice Genome Project Review, Hyderabad, India (multiple).  
Rockefeller Rice Genome Project Review, Madras, India, 1994.  
Rockefeller Rice Genome Project Review, Pune, India, 1995.  
IAEA Vienna Project Review, Rabat, Morocco, 1995.  
McKnight Foundation Project Review, Nanjing, China, 1996.  
USDA-India project, 1998.  
Indo-Swiss Collaboration in Biotechnology Project Reviews, IARI, India 2003.  
Indo-Swiss Collaboration in Biotechnology Project Reviews, IARI, India 2004.

### **Research Scholarship Ranking**

Google Scholar profile: h-index 126, citations 60156.  
Research.Com (<https://research.com/u/bikram-s-gill>): Best scientists in Genetics world rank 273 and US rank 143; D-index 125, citations 55154, publications 559,

### **Refereed journal articles:**

1. Rick CM and Gill BS. 1973. Reproductive errors in aneuploids: generation of extra-chromosomal types by tomato primary trisomics. *Can J Genet Cytol* 15:299-308.
2. Gill BS. 1974. A novel ditertiary tetrasomic in tomato. *Genetics* 77:61-70.
3. Gill BS. 1974. Dosage-dependent epistasis in tomato and its bearing on trisomy abnormalities and evolution. *J Hered* 65:130-132.
4. Gill BS and Kimber G. 1974. A Giemsa C-banding technique for cereal chromosomes. *Cereal Res Comm* 2:87-94.
5. Gill BS and Kimber G. 1974. Giemsa C-banding and the evolution of wheat. *Proc Natl Acad Sci USA* 71:4086-4090.
6. Gill BS and Kimber G. 1974. A Giemsa C-banded karyotype of rye. *Proc Natl Acad Sci USA* 71:1247-1249.
7. Gill BS and Srivastava PK. 1974. A simple technique for demonstrating heterochromatin in *Nigella*. *Experientia* 30:1483.
8. Dhaliwal HS, Gill BS, and Waines JG. 1977. Analysis of induced homoeologous pairing in a ph mutant wheat x rye hybrid. *J Hered* 68:206-209.
9. Gill BS and Kimber G. 1977. The recognition of translocations and alien chromosome transfers in wheat by the Giemsa C-banding technique. *Crop Sci* 27:264-266.
10. Zeller FJ, Kimber G, and Gill BS. 1977. The identification of rye trisomics by translocations and Giemsa staining. *Chromosoma* 62:279-289.

11. Gill BS. 1978. Cytogenetics of an unusual tertiary trisomic in tomato. *Caryologia* 31:257-269.
12. Gill BS and Waines JG. 1978. Paternal regulation of seed development in wheat hybrids. *Theor Appl Genet* 51:265-270.
13. Waines JG, Labanauskas CL, Handy MF, Gill BS, and Lehman WG. 1978. Protein amino acid profiles of normal and yellow-berry bread wheat. *Crop Sci* 18:590-592.
14. Robertson BM, Waines JG, and Gill BS. 1979. Genetic variability for seedling root number in wild and domesticated wheats. *Crop Sci* 19:843-847.
15. Tai PY, Dean JL, Miller JD, and Gill BS. 1979. Frequency of rust susceptibility in the sugarcane variety development program at Canal Point. *Proc Am Soc Sugar Cane Technol* 9:40-43.
16. Gill BS, Burnham CR, Stringham GR, Stout JT, and Weinheimer WH. 1980. Cytogenetic analysis of chromosomal translocations in the tomato: preferential breakage in heterochromatin. *Can J Genet Cytol* 22:333-341.
17. Hatchett JH, and Gill BS. 1980. D-genome sources of resistance in *Triticum tauschii* to Hessian fly. *J Hered* 72:126-127.
18. Sharma HC and Gill BS. 1980. Effects of kinetin on vernalization and seedling height in winter wheat. *Cereal Res Comm* 8:615-617.
19. Tai PYP, Miller JD, Gill BS, and Chew V. 1980. Correlations among characters of sugarcane in two intermediate selection stages. *Proc Int Soc Sugarcane Technol* 17:1119-1128.
20. Gill BS. 1981. Evolutionary relationships based on heterochromatin bands in six grass species of the Triticinae. *J Hered* 72:391-394.
21. Gill BS, Waines JG, and Sharma HC. 1981. Endosperm abortion and the production of viable *Aegilops squarrosa* x *Triticum boeoticum* hybrids by embryo culture. *Plant Sci Let* 23:181-187.
22. Sharma HC and Gill BS. 1981. New hybrids between *Agropyron* and wheat. I. Wheat Inf Serv 52:10 22.
23. Gill BS and Miller JD. 1982. Chromosome mosaics in clones of sugarcane and *S. spontaneum* L. hybrids. *Sugarcane Breed Newslet* 44:1-8.
24. Sharma HC and Gill BS. 1982. Variability in spikelet disarticulation in *Agropyron* species. *Can J Bot* 60:1771-1775.
25. Sharma HC and Gill BS. 1982. Effect of embryo age and culture media on plant growth and vernalization response in winter wheat. *Euphytica* 31:629-634.
26. Sharma HC and Gill BS. 1983. Current status of wide hybridization in wheat. *Euphytica* 32:17-31.
27. Sharma HC and Gill BS. 1983. New hybrids between *Agropyron* and wheat. II. Production, morphology, and cytogenetic analysis of F1 hybrids and backcross derivatives. *Theor Appl Genet* 66:111-121.
28. Endo TR and Gill BS. 1984. The heterochromatin distribution and genome evolution in diploid species of *Elymus* and *Agropyron*. *Can J Genet Cytol* 26:669-678.
29. Endo TR and Gill BS. 1984. Somatic karyotype, heterochromatin distribution, and nature of chromosome differentiation in common wheat, *Triticum aestivum* L. *Chromosoma* 89:361-369.

30. Lapitan NLV, Sears RG, and Gill BS. 1984. Translocations and other karyotypic structural changes in wheat x rye hybrid plants regenerated from tissue culture. *Theor Appl Genet* 68:547-554.
31. Muthukrishnan S, Gill BS, Swegle M, and Chandra GR. 1984. Structural genes for [alpha]-amylases are located on barley chromosomes 1 and 6. *J Biol Chem* 259:13637-13640.
32. Schlegel R and Gill BS. 1984. N-banding analysis of rye chromosomes and the relationship between N-banded and C-banded heterochromatin. *Can J Genet Cytol* 26:765-769.
33. Sharma HC and Gill BS. 1984. Somatic chromosome counts from leaf meristems in the tribe *Triticeae*. *Stain Tech* 59:197-200.
34. Sharma HC, Gill BS, and Sears RG. 1984. Inflorescence culture of wheat-*Agropyron* hybrids: Callus induction, plant regeneration, and potential in overcoming crossability barriers. *Plant Cell Tissue Organ Cult* 3:247-256.
35. Sharma HC, Gill BS, and Uyemoto JK. 1984. High levels of resistance in *Agropyron* species to barley yellow dwarf and wheat streak mosaic viruses. *Phytopath Z* 110:143-147.
36. Gill BS, Sharma HC, Raupp WJ, Browder LE, Hatchett JH, Harvey TL, Moseman JG, and Waines JG. 1985. Evaluation of *Aegilops* species for resistance to wheat powdery mildew, wheat leaf rust, Hessian fly, and greenbug. *Plant Dis* 69:314-316.
37. Gill BS, Kam-Morgan LNW, and Shepard JF. 1985. An apparent meiotic mutation in a mesophyll cell protoclone of the 'Russet Burbank' potato. *J Hered* 76:17-20.
38. Rayburn AL and Gill BS. 1985. Molecular evidence for the origin and evolution of chromosome 4A in polyploid wheats. *Can J Genet Cytol* 27:246-250.
39. Rayburn AL and Gill BS. 1985. Use of biotin-labeled probes to map specific DNA sequences of wheat chromosomes. *J Hered* 76:78-81.
40. Gill BS and Grassl CO. 1986. Pathways of genetic transfer in sugarcane hybrids. *Sugarcane* 2:2-7.
41. Gill BS, Kam-Morgan LNW, and Shepard JF. 1986. Origin of chromosomal and phenotypic variation in potato protoclones. *J Hered* 77:13-16.
42. Gill BS, Raupp WJ, Sharma HC, Browder LE, Hatchett JH, Harvey TL, and Moseman JG. 1986. Resistance in *Aegilops squarrosa* to wheat leaf rust, wheat powdery mildew, greenbug, and Hessian fly. *Plant Dis* 70:553-556.
43. Lapitan NLW, Sears RG, Rayburn AL, and Gill BS. 1986. Wheat-rye translocations: detection of breakpoints by in situ hybridization with a biotin-labelled DNA probe. *J Hered* 77:415-419.
44. Rayburn AL and Gill BS. 1986. Molecular identification of the D-genome chromosomes of wheat. *J Hered* 77:253-255.
45. Rayburn AL and Gill BS. 1986. Isolation of a D-genome specific repeated DNA sequence from *Aegilops squarrosa*. *Plant Molec Biol Repr* 4:102-109.
46. Sharma HC and Gill BS. 1986. The use of *ph1* gene in direct genetic transfer and search for *Ph*-like genes in polyploid *Aegilops* species. *Z Pflanzenzuchtung* 96:1-7.
47. Gill BS and Chen PD. 1987. Role of cytoplasm-specific introgression in the evolution of the polyploid wheats. *Proc Natl Acad Sci USA* 84:6800-6804.
48. Gill BS and Raupp WJ. 1987. Direct genetic transfers from *Aegilops-squarrosa* L to hexaploid wheat. *Crop Sci* 27:445-450.

49. Gill BS, Hatchett JH, and Raupp WJ. 1987. Chromosomal mapping of Hessian fly resistance gene *H13* in the D genome of wheat. *J Hered* 78:97-100.
50. Gill BS, Kam-Morgan LNW, and Shepard JF. 1987. Cytogenetic and phenotypic variation in mesophyll cell derived tetraploid potatoes. *J Hered* 78:15-20.
51. Lapitan NLV, Gill BS, and Sears RG. 1987. Genomic and phylogenetic relationships among rye and perennial species in the Triticeae. *Crop Sci* 27:682-686.
52. Morris KLD and Gill BS. 1987. Genomic affinities of individual chromosomes based on C-banding and N banding analysis of tetraploid *Elymus* species and their progenitor diploid species. *Genome* 29:247-252.
53. Rayburn AL and Gill BS. 1987. Use of repeated DNA sequences as cytological markers. *Am J Bot* 74:574-580.
54. Rayburn AL and Gill BS. 1987. Molecular analysis of the D-genome of the Triticeae. *Theor Appl Genet* 73:385-388.
55. Sharma HC, Aylward SA, and Gill BS. 1987. Partial amphiploid from *Triticum aestivum* x *Agropyron scirpeum*. *Bot Gaz* 148:258-267.
56. Stoddard SL, Gill BS, and Lommel SA. 1987. Genetic expression of wheat streak mosaic virus resistance in 2 wheat-wheatgrass hybrids. *Crop Sci* 27:514-518.
57. Stoddard SL, Lommel SA, and Gill BS. 1987. Evaluation of wheat germ plasm for resistance to wheat streak mosaic virus by symptomatology, ELISA, and slot-blot hybridization. *Plant Dis* 71:714-719.
58. Gill BS, and Appels R. 1988. Relationships between Nor-loci from different Triticeae species. *Plt Syst Evol* 160:77-90.
59. Gill BS, Morris KLD, and Appels R. 1988. Assignment of the genomic affinities of chromosomes from polyploid *Elymus* species added to wheat. *Genome* 30:70-82.
60. Lapitan NLV, Sears RG, and Gill BS. 1988. Amplification of repeated DNA sequences in wheat-rye hybrids regenerated from tissue culture. *Theor Appl Genet* 75:381-388.
61. Mitchell LE, Gill BS, and Appels R. 1988. Fractionation of alcohol dehydrogenase and alpha-amylase alleles from wheat in actinomycin-D/CsCl gradients. *Plt Syst Evol* 160:61-64.
62. Rayburn AL and Gill BS. 1988. Repeated DNA sequences in *Triticum*: chromosomal mapping and its bearing on the evolution of B and G genomes. *Plant Syst Evol* 159:229-235.
63. Scoles GJ, Gill BS, Xin Z-Y, Clarke BC, McIntyre CL, Chapman C, and Appels R. 1988. Frequent duplication and deletion events in the 5S RNA genes and the associated spacer regions of the Triticeae. *Plt Syst Evol* 160:105-122.
64. Kaleikau EK, Sears RG, and Gill BS. 1989. Control of tissue culture response in wheat (*Triticum aestivum* L.) *Theor Appl Genet* 78:783-787.
65. Kaleikau EK, Sears RG, and Gill BS. 1989. Monosomic analysis of tissue culture response in wheat (*Triticum aestivum*). *Theor Appl Genet* 78:625-632.
66. Kam-Morgan LNW, Gill BS, and Muthukrishnan S. 1989. DNA restriction fragment length polymorphisms: A strategy for genetic mapping of of D genome of wheat. *Genome* 32:724-732.
67. Negrutiu I, Hinnisdaels S, Mouras A, Gill BS, Gharti-Chhetri GB, Davey MR, Gleba YY, Sidorov V, and Jacobs M. 1989. Somatic versus sexual hybridization: features, facts, and future. *Acta Bot Neerl* 38:253-272.

68. Amri A, Cox TS, Gill BS, and Hatchett JH. 1990. Chromosomal location of the Hessian fly resistance gene-*H20* in Jori durum wheat. *J Hered* 81:71-72 (Brief Communication).
69. Amri A, Cox TS, Hatchett JH, and Gill BS. 1990. Complementary action of genes for Hessian fly resistance in the wheat cultivar 'Seneca'. *J Hered* 81:224-227 (Brief Communication).
70. Cox TS, Hatchett JH, Gill BS, Raupp WJ, and Sears RG. 1990. Agronomic performance of hexaploid wheat lines derived from direct crosses between wheat and *A. squarrosa*. *Plant Breed* 105:271-277.
71. Dhaliwal HS, Friebe B, Gill KS, and Gill BS. 1990. Cytogenetic identification of *Aegilops squarrosa* chromosome additions in durum wheat. *Theor Appl Genet* 79:769-774.
72. Friebe B, Hatchett JH, Sears RG, and Gill BS. 1990. Transfer of Hessian fly resistance from 'Chaupon' rye to hexaploid wheat via a 2BS/2RL wheat-rye chromosome translocation. *Theor Appl Genet* 79:385-389.
73. Friebe B, Kim NS, Kuspira J, and Gill BS. 1990. Genetic and cytogenetic analyses of the A genome of *Triticum monococcum*. VI. Production and identification of primary trisomics using the C-banding technique. *Genome* 33:542-555.
74. Morris KLD, Raupp WJ, and Gill BS. 1990. Isolation of H<sup>1</sup> genome chromosome additions from polyploid *Elymus trachycaulus* (S'S'H'H<sup>1</sup>) into common wheat (*Triticum aestivum*). *Genome* 33:16-22.
75. Mukai Y, Endo TR, and Gill BS. 1990. Physical mapping of 5S rRNA multigene family in common wheat. *J Hered* 81:290-295.
76. Tyagi BR and Gill BS. 1990. C-banded karyotype of *Hyoscyamus muticus* L. *J Hered* 81:401-402 (Brief Communication).
77. Cox TS, Harrell LG, Chen PD, and Gill BS. 1991. Reproductive behavior of hexaploid/diploid wheat hybrids. *Plant Breed* 107:105-118.
78. Endo TR, Mukai Y, Yamamoto M, and Gill BS. 1991. Physical mapping of a male-fertility gene of common wheat. *Japanese J Genet* 66:291-296.
79. Friebe B, Hatchett JH, Mukai Y, Gill BS, and Sebesta EE. 1991. Transfer of Hessian fly resistance from rye to wheat via radiation-induced terminal and intercalary chromosomal translocations. *Theor Appl Genet* 83:33-40.
80. Friebe B, Mukai Y, Dhaliwal HS, Martin TJ, and Gill BS. 1991. Identification of alien chromatin specifying resistance to wheat streak mosaic and greenbug in wheat germplasm by C-banding and *in situ* hybridization. *Theor Appl Genet* 81:381-389.
81. Gill KS and Gill BS. 1991. A DNA fragment mapped within the submicroscopic deletion of *Ph1*, a chromosome pairing regulator gene in polyploid wheat. *Genetics* 129:257-260.
82. Gill BS, Friebe B, and Endo TR. 1991. Standard karyotype and nomenclature system for description of chromosome bands and structural aberrations in wheat (*Triticum aestivum*). *Genome* 34:830-839.
83. Gill KS, Lubbers EL, Gill BS, Raupp WJ, and Cox TS. 1991. A genetic linkage map of *Triticum tauschii* (DD) and its relationship to the D genome of bread wheat (AABBDD). *Genome* 34:362-374.
84. Jauhar PP, Riera-Lizarazu O, Dewey WG, Gill BS, Crane CF, and Bennett JH. 1991. Chromosome pairing relationships among the A, B, and D genomes of bread wheat. *Theor Appl Genet* 82:441-449.

85. Lubbers EL, Gill KS, Cox TS, and Gill BS. 1991. Variation of molecular markers among geographically diverse accessions of *Triticum tauschii*. *Genome* 34:354-361.
86. Masoud SA, Gill BS, and Johnson LB. 1991. C-banding of alfalfa chromosomes - standard karyotype and analysis of a somoclonal variant. *J Hered* 82:335-338.
87. Mukai Y, and Gill BS. 1991. Detection of barley chromatin added to wheat by genomic *in situ* hybridization. *Genome* 34:448-452.
88. Mukai Y, Endo TR, and Gill BS. 1991. Physical mapping of the 18S.26S rRNA multigene family in common wheat: identification of a new locus. *Chromosoma* 100:71-78.
89. Tsujimoto H and Gill BS. 1991. Repetitive DNA sequences from polyploid *Elymus trachycaulus* and the diploid progenitor species - detection and genomic affinity of *Elymus* chromatin added to wheat. *Genome* 34:782-789.
90. Cox TS, Raupp WJ, Wilson DL, Gill BS, Leath S, Bockus WW, and Browder LE. 1992. Resistance to foliar diseases in a collection of *Triticum tauschii* germ plasm. *Plant Dis* 76:1061-1064.
91. Dhaliwal HS, Tyagi BR, White FF, and Gill BS. 1992. Attempted transformation of wheat and tobacco by plasmid DNA uptake via the pollen-tube pathway. *J Plant Biochem Biotech* 1:127-128.
92. Friebe B, Mukai Y, and Gill BS. 1992. C-banding polymorphisms in several accessions of *Triticum tauschii* (*Aegilops squarrosa*). *Genome* 35:192-199.
93. Friebe B, Mukai Y, Gill BS, and Cauderon Y. 1992. C-banding and *in situ* hybridization analyses of *Agropyron intermedium*, a partial wheat x *Ag. intermedium* amphiploid, and 6 derived chromosome addition lines. *Theor Appl Genet* 84:899-905.
94. Gill KS and Gill BS. 1992. A strategy to identify probes that detect a high degree of polymorphism in bread wheat. *J Plant Biochem Biotechnol* 1:81-85.
95. Jiang J, Raupp WJ, and Gill BS. 1992. *Rf* genes restore fertility in wheat lines with cytoplasm of *Elymus trachycaulus* and *E. ciliaris*. *Genome* 35:614-620.
96. Mukai Y, Friebe B, and Gill BS. 1992. Comparison of C-banding patterns and *in situ* hybridization sites using highly repetitive and total genomic rye DNA probes of Imperial rye chromosomes added to Chinese Spring wheat. *Japanese J Genet* 67:71-84.
97. Stein IS, Sears RG, Gill BS, Hoseney RC, and Cox TS. 1992. Heterogeneity of the Wichita wheat monosomic set for grain quality and agronomic traits. *Crop Sci* 32:581-583.
98. Stein IS, Sears RG, Hoseney RC, Cox TS, and Gill BS. 1992. Chromosomal location of genes influencing grain protein concentration and mixogram properties in 'Plainsman V' winter wheat. *Crop Sci* 32:573-580.
99. Werner JE, Kota RS, Gill BS, and Endo TR. 1992. Distribution of telomeric repeats and their role in the healing process of broken chromosome ends in wheat. *Genome* 35:844-848.
100. Werner JE., Endo TR, and Gill BS. 1992. Toward a cytogenetically based physical map of the wheat genome. *Proc Natl Acad Sci USA* 89:11307-11311.
101. Friebe B, Gill BS, Mukai Y, and Maan SS. 1993. A noncompensating wheat-rye translocation maintained in perpetual monosomy in alloplasmic wheat. *J Hered* 84:126-129 (Brief Comm.).

102. Friebe B, Jiang J, Gill BS, and Dyck PL. 1993. Radiation-induced nonhomoeologous wheat-*Agropyron intermedium* chromosomal translocations conferring resistance to leaf rust. *Theor Appl Genet* 86:141-149.
103. Friebe B, , Jiang J, and Gill BS. 1993. Standard karyotype of *Triticum longissimum* and its cytogenetic relationship with *T. aestivum*. *Genome* 36:731-742.
104. Gill BS. 1993. Molecular cytogenetic analysis in wheat. *Crop Sci* 33:902-908.
105. Gill KS, Gill BS, and Endo TR. 1993. A chromosome region-specific mapping strategy reveals gene-rich telomeric ends in wheat. *Chromosoma* 102:374-381.
106. Gill KS, Gill BS, Endo TR, and Mukai Y. 1993. Fine physical mapping of *Ph1*, a chromosome pairing regulator gene in polyploid wheat. *Genetics* 134:1231-1236.
107. Jiang J and Gill BS. 1993. A 'zebra' chromosome arising from multiple translocations involving nonhomoeologous chromosomes. *Chromosoma* 102:612-617 [with cover photo].
108. Jiang J and Gill BS. 1993. Sequential chromosome banding and *in situ* hybridization analysis. *Genome* 36:792-795.
109. Jiang J, Friebe B, Dhaliwal HS, Martin TJ, and Gill BS. 1993. Molecular cytogenetic analysis of *Agropyron elongatum* chromatin in wheat germplasm specifying resistance to wheat streak mosaic virus. *Theor Appl Genet* 86:41-48.
110. Jiang J, Chen PD, Friebe B, Raupp WJ, and Gill BS. 1993. Alloplasmic wheat-*Elymus ciliaris* chromosome addition lines. *Genome* 36:327-333.
111. Kota RS, Gill KS, Gill BS, and Endo TR. 1993. A cytogenetically based physical map of chromosome-1B in common wheat. *Genome* 36:548-554.
112. Ma Z-Q, Gill BS, Sorrells ME, and Tanksley SD. 1993. RFLP markers linked to 2 Hessian fly-resistance genes in wheat (*Triticum aestivum*) from *Triticum tauschii* (Coss)Schmal. *Theor Appl Genet* 85:750-754.
113. Mukai Y, Friebe B, Hatchett JH, Yamamoto M, and Gill BS. 1993. Molecular cytogenetic analysis of radiation induced wheat-rye terminal and intercalary chromosomal translocations and the detection of rye chromatin specifying resistance to Hessian fly. *Chromosoma* 102:88-95 (with cover photo).
114. Raupp WJ, Amri A, Hatchett JH, Gill BS, Wilson DL, and Cox TS. 1993. Chromosomal location of Hessian fly-resistance genes *H22*, *H23*, and *H24* derived from *Triticum tauschii* in the D genome of wheat. *J Hered* 84:142-145 (Brief Comm).
115. Badaeva ED, Badaev NS, Gill BS, and Filatenko AA. 1994. Intraspecific karyotype divergence and speciation in *Triticum araraticum* Jakubz. (Poaceae). *Plant System Evol* 192:117-145.
116. Chen PD, Tsujimoto H, and Gill BS. 1994. Transfer of *Ph1* genes promoting homoeologous pairing from *Triticum speltoides* to common wheat. *Theor Appl Genet* 88:97-101.
117. Cox TS, Raupp WJ, and Gill BS. 1994. Leaf rust-resistance genes *Lr41*, *Lr42*, and *Lr43* transferred from *Triticum tauschii* to common wheat. *Crop Sci* 34:339-342.
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**Research Patents:**

**1. Wheat lines, plants, and grain with increased beta-glucan content**

- U.S. Patents: **US 10,827,702** (issued Nov 10, 2020), **US 11,445,674** (issued Sept 20, 2022), **US 11,785,907** (issued Oct 17, 2023)
- Inventors: **Jesse Poland, Bernd Friebe, Tatiana Danilova, Bikram S. Gill, Eric Jackson**
- Assignees: **General Mills, Inc. and Kansas State University Research Foundation.**

**2. Gene encoding FHB1 resistance to fusarium head blight disease and uses thereof**

- **Patent No.: 11,072,799**
- **Filed:** July 8, 2019
- **Issued:** July 27, 2021
- **Assignees:** Kansas State University Research Foundation; Regents of The University of Minnesota
- **Inventors:** Bikram S. Gill, Nidhi Rawat, Eduard Akhunov, Michael Pumphrey, James A. Anderson, Sixin Liu

- **Focus:** Methods and recombinant vectors for increasing Fusarium head blight resistance in plants using exogenous Fhb1 nucleic acids.

### 3. *Genetic system for promoting recombination and gene transfer in wheat*

- **Type:** Granted patent (US 11,122,758)
- **Filed:** October 7, 2017
- **Issued:** September 21, 2021
- **Assignee:** Kansas State University Research Foundation
- **Inventors:** Bikram S. Gill, Bernd Friebe, **Dal-Hoe Koo**

### 4. *Extra-chromosomal circular DNA-mediated engineering of plant traits*

- **Type:** Granted patent (US 11,492,629)
- **Filed:** March 6, 2020
- **Issued:** November 8, 2022
- **Assignee:** Kansas State University Research Foundation
- **Inventors:** Mithila Jugulam, **Dal-Hoe Koo**, Bikram S. Gill, Bernd Friebe

#### *International Symposium Proceedings:*

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223. Kuraparthi V, Sood S, Brown-Guedira GL, and Gill BS. 2010. Development of PCR assays and marker-assisted transfer of rust resistance genes *Lr57/Yr40* and *Lr58* into adapted winter wheats. PAG XVIII Abstr P287.

224. Liu S, Sehgal SK, Bai G, and Gill BS. 2010. Toward cloning of a major QTL for preharvest sprouting resistance in white wheat. Natl Wheat Genomics Workshop, Ann Wheat Newslett 56:16.
225. Liu W, Friebe B, Gill BS, and Pumphrey MO. 2010. Transfer of stem rust resistance from *Aegilops searsii* into common wheat by molecular and cytogenetic approaches. PAG XVIII Abstr P293.
226. Liu W, Friebe B, Gill BS, and Pumphrey M. 2010. Development and characterization of wheat–alien translocation lines conferring stem rust resistance from *Aegilops searsii* and *Ae. geniculata*. Natl Wheat Genomics Workshop, Ann Wheat Newslet 56:21.
227. Luo MC, Ma Y, You FM, Anderson OD, Kopecky D Simkova H, Safar J, Dolezel J, Gill BS, McGuire PE, and Dvoark J. 2010. Feasibility of physical map construction from fingerprinted bacterial artificial chromosome libraries of polyploid plant species. PAG XVIII Abstr P110.
228. Olson EL, Pumphrey MO, Rouse M, Jin Y, Bowden RL, and Gill BS. 2010. Introgression and characterization of stem rust resistance from *Aegilops tauschii* Coss. 2010 Hard Winter Wheat Workers Workshop, Ann Wheat Newslet 56:37.
229. Qi LL, Friebe B, Gu YQ, Qian C, and Gill BS. 2010. Genome-wide sequence comparison of centromeric regions and BAC-landing on chromosomes provide new insights into centromere evolution among wheat, *Brachypodium*, and rice. PAG XVIII Abstr P236.
230. Rothe N, Rawat N, Sehgal SK, Li WL, and Gill BS. 2010. Characterizing the lignocellulose pathway in wheat by TILLING *Triticum monococcum* subsp. *monococcum*. 2010 Natl Wheat Genomics Workshop, Ann Wheat Newslet 56:22.
231. Sehgal SK, Akhunov E, Li WL, Kaur G, Catana V, Parimi R, Faris J, Reddy L, Devos KM, Rabinowicz PD, Chan AP, Maiti R, Dolezel J, Simkova H, Safar J, Ma YQ, Luo MC, and Gill BS. 2010. Towards an integrated physical and genetic map of chromosome 3A of wheat. PAG XVIII Abstr W352.
232. Friebe B, Cainong JC, Qi LL, Chen PD, Bockus WW, and Gill B.S. 2010. Chromosome engineering and transfer of alien sources for Fusarium head blight resistance in hard red winter wheat. Natl Fusarium Head Blight Forum, 7-9 December, Milwaukee, WI.
233. Akhunov E, Sehgal S, Akhunova A, Liang G, Catana V, Kaur G, Luo MC, Simkova H, Dolezel J, and Gill BS. 2011. Sequencing and analysis of the wheat chromosome 3A gene space. PAG XIX Abstr W352.
234. Choulet F, Wincker P, Quesneville H, Brunel D, Gill BS, Appels R, Keller B, and Feuillet C. 2011. Sequencing and analyses of the hexaploid wheat chromosome 3B. PAG XIX Abstr W220.
235. Olson E, Poland J, Bowden R, Rouse M, Jin Y, Friebe B, Gill BS, and Pumphrey M. 2011. Characterization of a stem rust resistance gene from *Aegilops tauschii* effective against stem rust race Ug99. PAG XIX Abstr P310.
236. Rawat N, Sehgal SK, Joshi A, Rothe N, Li W, and Gill BS. 2011. Dissecting the lignocellulose pathway in *Triticum monococcum* using TILLING. PAG XIX Abstr P726.
237. Sehgal SK, Aknunov E, Li W, Kaur G, Catana V, Pillamari J, Faris J, Reddy L, Devos KM, Rabinowicz PD, Chan A, Maiti R, Dolezel J, Simkova H, Safar J, Luo MC, Ma Y, You FM, and Gill BS. 2011. Towards a physical and genetic framework map of chromosome 3A of bread wheat (*Triticum aestivum* L.). PAG XIX Abstr P019.

238. Abbasov M, Bowden RL, Raupp WJ, Sehgal SK, St. Amand P, Babayeva S, Poland J, and Gill BS. 2011. Resistance of Azerbaijani durum and bread wheat accessions to leaf and stem rust. Field Crop Rust Symp, 14-16 December, San Antonio, TX.
239. Friebe B, Cainong JC, Chen PD, Bockus WW, and Gill B.S. 2011. Utilizing alien sources of resistance to Fusarium head blight for wheat improvement. 2011 National Fusarium Head Blight Forum.
240. Aknunov E, Sehgal SK, Liang H, Wang S, Akunova A, Li W, Forrest K, See D, Simkova H, Hayden M, Luo M, Faris J, Dolezel J, and Gill BS. 2012. Alternative splicing and coding sequence evolution in polyploid wheat. PAG XX Abstr W268.
241. Brenchley R, Spannagl M, Pfeifer M, Barker GLA, D'Amore R, Allen AM, McKenzie N, Kramer M, Bolser D, Kay S, Waite D, Gu Y, Huo N, Luo M-C, Sehgal S, Kianian S, Trick M, Bancroft I, Gill BS, Anderson O, Dvorak J, Kersey P, McCombie R, Hall A, Mayer KFX, Edwards KJ, Bevan MW, Hall N, Martis M, Simkova H, Vrana J, Dolezel J, König S, Zhou R, Schmutzer T, Scholz U, Korzun V, Stein N, Schön C-C, Bauer E, and Haseneyer G. 2012. Same, same but different: complementary analytical approaches highlight the different shades of polyploidy in rye and wheat. Proc ITMI Workshop, Fargo, ND. Ann Wheat Newslett 58:4-5.
242. Danilova TV, Friebe B, and Gill BS. 2012. Physical mapping of the wheat and Triticeae genomes using single gene FISH. Proc ITMI Workshop, Fargo, ND. Ann Wheat Newslett 58:18.
243. Dvorak J, Luo M, Deal KR, McGuire P, Wang J-R, You F, Huo N, Gu YQ, Anderson O, Li W, Sehgal SK, Gill BS, Stein J, Pasternak S, Olson A, Ware D, McCombie WR, Martis MM, Mayer K, and Dolezel J. 2012. Physical map and shotgun sequence of the *Aegilops tauschii* genome. PAG XX Abstr W426.
244. Joshi A, Rawat N, Wilson DL, Sehgal SK, and Gill BS. 2012. Isolation of wheat starch pathway mutants using TILLING. PAG XX Abstr P0293.
245. Joshi A, Sehgal SK, Kaur G, Stuart JJ, Liu X, Chen M-S, and Gill BS, Towards fine mapping and cloning of the Hessian fly resistance gene, *H13*. Proc US Wheat Genomics Workshop, Fargo, ND. Ann Wheat Newslett 58:45-46.
246. Kalia B, Bowden RL, Wilson DL, and Gill BS. 2012. Identification and mapping of genes expressing and suppressing resistance to stripe rust in synthetic hexaploid wheat. Proc US Wheat Genomics Workshop, Fargo, ND. Ann Wheat Newslett 58:52.
247. Li W, Zhu H, Wang J, Challa GS, and Gill BS. 2012. A cytoplasmic view of polyploid wheat evolution. PAG XX Abstr P0292.
248. Liu W, Danilova TV, Jin Y, Rouse M, Friebe B, Gill BS, and Pumphrey MO. 2012. Development of a wheat-*Thinopyrum intermedium* Robertsonian translocation stock with *Sr44* resistance to stem rust (Ug99).<sup>[L1]</sup><sub>[SEP]</sub> PAG XX Abstr P0234.
249. Olson E, Poland J, Bowden RL, Friebe B, and Gill BS. 2012. Simultaneous transfer, genomic localization and introgression of genes for resistance to stem rust race Ug99 from the wheat D-genome progenitor species, *Aegilops tauschii*, to cultivated wheat, *Triticum aestivum*. Proc US Wheat Genomics Workshop, Fargo, ND. Ann Wheat Newslett 58:51.
250. Rawat N, Sehgal SK, Joshi A, Rothe N, Li W, and Gill BS. 2012. Diploid wheat (*Triticum monococcum*) as a model for gene discovery in wheat. PAG XX Abstr P0340.

251. Rawat N, Kalia B, Sehgal S, Li W, and Gill BS. 2012. Molecular mapping of the brittle rachis (*Br-A1*) gene in *Triticum timopheevii*. Proc US Wheat Genomics Workshop, Fargo, ND. Ann Wheat Newslett 58:38.
252. Sehgal SK, Aknunov E, Li W, Kaur G, Catana V, Pillamari J, Faris JD, Reddy L, Devos KM, Rabinowicz PD, Chan A, Maiti R, Simkova H, Safar J, Dolezel J, Luo M-C, Ma Y, You FM, and Gill BS. 2012. Physical and genetic framework of chromosome 3A of bread wheat. <sup>[L]</sup><sub>SEP</sub> PAG XX Abstr P0028.
253. Sehgal SK, Kaur G, Luo M-C, Safar J, Simkova H, Dolezel J, Dvorak J, and Gill BS. 2012. Sequence-ready, physical maps of chromosomes 1D, 4D, and 6D of hexaploid wheat. PAG XX Abstr P0027.
254. Zhang Z, Belcram H, Gornicki P, Charles M, Just J, Huneau C, Magdelenat G, Couloux A, Samain S, Rasmussen JB, Barbe V, Chalhoub B, Gill BS, and Faris JD. 2012. The pleiotropic effects of the master regulator *Q* and its homoeologous loci in polyploid wheat. Proc US Wheat Genomics Workshop, Fargo, ND. Ann Wheat Newslett 58:37-38.
255. Danilova TV, Friebe B, and Gill BS. 2013. Development of single-copy gene FISH for wheat and its application in studying chromosomal rearrangements in wild relatives and mapping of the wheat genome. PAG XXI Abstr P0913.
256. Dvorak J, Luo MC, Gu YQ, You FM, Deal KR, Ma Y, Hu Y, Huo N, Wang Y, Wang J-R, Chen S, Jorgensen C, Zhang Y, McGuire P, Pasternak S, Stein J, Ware D, Kramer M, McCombie WR, Kianian S, Martis MM, Mayer K, Sehgal SK, Gill BS, Bevan M, Doležel J, Lazo GR, Anderson O, Massa AN, Rabinowicz PD, and Devos KM. 2013. A 4-gigabase comparative physical map of *Aegilops tauschii*, the wheat D-genome progenitor, opens the window into the evolution of gene content and meaning of genome size in grasses. PAG XXI Abstr W197.
257. Olson E, Rouse M, Pumphrey M, Bowden RL, Gill BS, and Poland J. 2013. Integrated genetic mapping and transfer of genes for Ug99 wheat stem rust resistance from the D genome of *Aegilops tauschii* to bread wheat, *Triticum aestivum*. PAG XXI Abstr P0256.
258. Tiwari VK, Sehgal SK, Friebe B, Kalia B, Doležel J, Simkova H, and Gill BS. 2013. Alien chromosome-specific SNP discovery for monitoring alien chromosome introgression in wheat. PAG XXI Abstr P0272.
259. Akhunov E, Sehgal SK, Jordan K, Akhunova A, Lun Y, Liang H, Gill BS, and Wang S. 2014. Genomic redundancy in young polyploids: does it play an important role in adaptation? PAG XXII Abstr W412. <sup>[L]</sup><sub>SEP</sub>
260. Danilova TV, Friebe B, and Gill BS. 2014. Development of wheat cDNA FISH markers for detecting homoeology within the Triticeae and application as chromosome specific molecular markers. PAG XXII Abstr P223. <sup>[L]</sup><sub>SEP</sub>
261. Danilova TV, Friebe B, and Gill BS. 2014. Development of a wheat cytogenetic map for detecting chromosome rearrangements and homoeology within the Triticeae. PAG XXII Abstr W342.
262. <sup>[L]</sup><sub>SEP</sub> Doležel J, Simkova H, Safar J, Kubalaková M, Vrana J, Cihaliková J, Sperková R, Kianian SF, Sourdille P, Lukaszewski AJ, Endo TR, Gill BS, and IWGSC. 2014. A complete set of chromosome BAC libraries for genomics of wheat (*Triticum aestivum*). PAG XXII Abstr P225. <sup>[L]</sup><sub>SEP</sub>

263. Koo D-H, Liu W, Danilova TV, Sehgal SK, Friebe B, and Gill BS. 2014. Insights into homoeologous recombination between wild and cultivated wheat. PAG XXII Abstr P224.
264. <sup>[1]</sup><sub>SEP</sub> Tiwari VK, Wang S, Sehgal SK, Friebe B, Vrana J, Kubalaková M, Doležal J, Chhuneja P, Akhunov E, Rawat N, Kalia B, Sabir J, Gill BS. 2014. Sequence-based analysis of flow-sorted *Aegilops geniculata* chromosome 5M<sup>s</sup> using a Next Generation sequencing approach. PAG XXII Abstr P217.
265. Kalia B, Singh RP, Bowden RL, Eade E, Poland J, and Gill BS. 2015. Detection of adult plant resistance (APR) to *Puccinia triticina* in native wheat species, transfer and mapping in wheat. The American Phytopathological Society meetings 2015, Pasadena, California. *Phytopathology* 105(Suppl. 4):S4.68.
266. Singh N, Gill BS, and Poland J. 2015. *Identifying genetically diverse representative core set from Aegilops tauschii collection using genotyping-by-sequencing*. National Association of Plant Breeders (NAPB), Pullman, WA, July 2015.
267. Raupp WJ, Wu S, Singh N, Poland J, and Gill BS. 2015. The Wheat Genetics Resource Center Genebank and the rapid curation of germplasm Collections using Genotyping-by-Sequencing. Seeds for future generations – determinants of longevity. Book of Abstracts International Society for Seed Science (Lohwasser U and Börner A, Eds). P. 9.
268. Danilova TV, Friebe B, and Gill BS. 2016. Homoeologous relationships of *Aegilops caudata* and wheat chromosomes as determined by single gene FISH mapping. PAG XXIV Abstr W683.
269. Gu YQ, Wang Y, Tiwari VK, Rawat N, Gill BS, Huo N, You FN, and Coleman-Derr D. 2016. GSP: a web-based platform for designing genome-specific primers in polyploids. PAG XXIV Abstr P0305.
270. Rawat N, Pumphrey M, Akhunov E, Anderson JA, and Gill BS. 2017. Map-based cloning reveals the origin of *Fhb1* gene in wheat. PAG XXIV Abstr W786.
271. Rawat N, Pumphrey M, Liu S, Zhang X, Tiwari VK, Trick HN, Bockus WW, Akhunov E, Anderson JA, and Gill BS. 2016. Positional cloning of *Fhb1* gene in wheat. PAG XXIV Abstr W976.
272. Singh N, Sehgal S, Wu S, Tiwari V, Raupp J, Gill B, and Poland J. 2016. Efficient selection of donor lines from gene banks using genomic approaches. Agron Abstr. Crop Science Society of America, Phoenix, AZ, November.
273. Singh N, Wu S, Raupp J, Gill BS, and Poland J. 2016. Efficient curation of gene banks using next-generation sequencing. PAG XXIV Abstr P0297.
274. Tiwari VK, Rawat N, Wang S, Chhuneja P, Friebe B, Doležal J, Poland J, Akhunov E, Liu S, Bowden RL, and Gill BS. 2016. A comparative genomics based approach to target alien chromosome specific genes. PAG XXIV Abstr W198.
275. Danilova TV, Hřibová E, Friebe B, Gill BS, Vrána J, and Doležal J. 2017. The karyotype of *Agropyron cristatum* and its comparison with that of bread wheat using FISH and single gene probes. PAG XXV Abstr P0297.
276. Danilova TV, Zhang G, Friebe B, and Gill BS. 2017. Homoeologous recombination-based transfer of a wheat streak mosaic virus and Triticum mosaic virus resistance gene *Wsm3* from *Thinopyrum intermedium* to wheat. PAGXXV Abstr P0897.
277. Zhao H, Zeng Z, Koo DH, Gill BS, Han F, Birchler JA, and Jiang J. 2017. Recurrent activation of a latent centromere in the centromeric region of maize chromosome 3. PAG XXV Abstr W397.

278. Tiwari VK, Meier N, Joshi A, Rawat N, Leonard JM, Gill BS, Poland J, Datla R, Wang S, Quilichini T, Venglat P, and Xiang D. 2017. Towards map-based cloning of C locus in hexaploid wheat. PAG XXV Abstr P0870.

*Special lectures, seminars:*

1. Gill BS. 1974. Giemsa C-banding in cereal species: chromosome identification and phylogeny. Special Genetics Seminar, University of California, Davis; 2 July.
2. Gill BS and Kimber G. 1974. Giemsa C-banding in wheat. European Wheat Workers Annual Meeting, Belgrade, Yugoslavia.
3. Gill BS and Kimber G. 1974. Identification of wheat chromosomes by a C banding technique. Genetics Society of America Meetings, Bloomington, IN; 11–14 August.
4. Gill BS. 1976. Somatic chromosome identifications Botany Seminar, Univ California, Riverside, 22 November.
5. Gill BS. 1976. Small stable RNA metabolism in mouse L cells. Seminar, University of Missouri-Columbia; February.
6. Gill BS, and Apirion D. 1976. Cellular distribution of small stable RNA molecules in mouse L cells. American Society of Biological Chemists, 67th Annual Meeting, San Francisco, CA.
7. Gill BS and Kimber G. 1976. New evolutionary approaches in the triticeae. Genetics Society of America Meeting, University of Utah, Salt Lake City; 15–18 August.
8. Gill BS. 1978. Potential cytogenetic approaches in sugarcane breeding. American Society of Sugarcane Technol, 8th Annual Meeting, Orlando, FL; 23 June.
9. Gill BS. 1978. Giemsa C-banding identification of chromosomes in the wheat group. Joint Agronomy and Plant Genetics/Genetics and Cell Biology Seminar, University of Minnesota, St. Paul; 27 February.
10. Gill BS. 1981. Disease and insect resistance in wild wheats. Eastern Wheat Workers Conference, Lexington, KY; 15 April.
11. Gill BS. 1981. New sources for wheat breeding in wild germ plasm. Fall Cereals Conference, Kansas State University, Manhattan, KS; 5–6 August.
12. Gill BS. 1981. Cytogenetic basis of protoclonal variation in potato. Gordon Research Conference, Plant Cell and Tissue Culture, Proctor Academy, Andover, NH; 22–26 June.
13. Gill BS. 1982. Chromosome engineering in wheat improvement. Conference on Genetic Coop, NC AES, NRRC, USDA-ARS, Peoria, IL; 18–19 October.
14. Gill BS. 1982. Heterochromatin differentiation and genome evolution in cereal species. Genetics Seminar Series, University of California, Riverside; 5 May.
15. Gill BS. 1982. Uses of chromosome identification in plant improvement. International Plant Research Institute, San Carlos, CA; 3 May.
16. Gill BS. 1982. A perspective on Professor Charles M. Rick's contributions to plant genetics. Special Symposium, University of California, Davis; 7 May.
17. Gill BS. 1982. Rapid genetic transfer of pest resistance and other traits from wild progenitor species into common wheat. Symp on Wide Hybridization in Wheat, Agronomy Society of America, Anaheim, CA; 1 December.

18. Gill BS. 1983. Improved germplasm for disease and insect resistance from wild wheats. Department of Plant Breeding, Punjab Agricultural University, Ludhiana, India, 24 December.
19. Gill BS. 1983. Studies on heterochromatin structure, phylogeny, and genome evolution in some cereal species. Post-International Congress Symposium "Advances in Chromosome Genetics and Self-incompatibility", Department of Botany, Punjab Agricultural University, India; 23 December.
20. Gill BS. 1984. Insect resistance and evolution of wheat. Entomological Society of America, NC Branch, Wichita, KS; 27 March.
21. Gill BS. 1984. Current research. KKSU radio interview.
22. Gill BS. 1984. New sources for wheat breeding. KS Crop Improvement Association Annual Meeting of Certified Seed Growers, Manhattan, KS; 26 January.
23. Gill BS. 1984. Participant in Ag Media Days; in-depth interviews and lab tours to reporters from six Kansas newspapers and magazines.
24. Gill BS. 1985. Current research. KKSU radio interview.
25. Gill BS. 1985. Towards a molecular-cytogenetic description of wheat chromosomes. Monsanto Co, St. Louis, MO; 21 November.
26. Gill BS. 1985. Wild relatives as a source of pest resistance in wheat. NC Branch, American Society of Agronomy, Manhattan, KS, 13 June.
27. Gill BS. 1985. Harvesting the genetic wealth of goatgrass. Seminar, Department of Plant Pathology, Kansas State University; 14 February.
28. Gill BS. 1986. Heterochromatin structure of wheat chromosomes. Department of Plant Breeding and Biometry, Sydney University, Australia; November.
29. Gill BS. 1986. Cytogenetic manipulations in resistance transfer in wheat. Genetics Society of Australia, 33rd Annual Meeting, Adelaide; 28 August.
30. Gill BS. 1986. Current research. KKSU radio interview.
31. Gill BS. 1986. Genome evolution in wheat and its relatives. Plant Breeding Institute, Castle Hill, Sydney University, Sydney, Australia; 9 November.
32. Gill BS. 1987. Modern plant chromosome analysis. EWAC (European Wheat Aneuploid Coop), Agricultural Research Institute, Hungarian Academy of Science, Martonvásár, Hungary; 1 July.
33. Gill BS. 1987. Impact of new concepts: chromosomal structure and manipulation in cereal species. University of Missouri, Columbia; invited speaker, 16 March.
34. Gill BS. 1987. Molecular-cytogenetic description of wheat chromosomes. Gatersleben Institute, Germany; 9 June.
35. Gill BS. 1987. Wheat evolution. Gatersleben Institute, Germany; 15 June.
36. Gill BS. 1987. New techniques in diagnosing chromosomes. University of Halle, Germany; 16 June.
37. Gill BS. 1987. Wheat evolution and alien variation. Plant Breeding Institute, Hohenthum, Germany; 17 June.
38. Gill BS. 1987. Modern chromosome identification methods in the analysis of the triticale genome. EUCARPIA Triticale Conference, Schwerin, Germany; 22 June.
39. Gill BS. 1987. The role of introgressive hybridization in genome evolution and speciation in polyploid plants. Plant Breeding Institute, Cambridge, England; 7 July.

40. Gill BS. 1987. Plant genetic resources and biotechnology: recent impressions from foreign travel. International Activities Luncheon, Kansas State University Union, 5 October.
41. Gill BS. 1987. Molecular methods in cytogenetics: *In situ* hybridization and staining. Speaker, workshop on Molecular Methods in Crop Research, American Society of Agronomy Annual Meetings, Atlanta, GA; 29 November.
42. Gill BS. 1988. The use of chromosome banding and *in situ* hybridization for the study of alien introgression. 2nd International Symposium on Genetic Manipulation in Crops, CIMMYT, Mexico; 29-31 August.
43. Gill BS. 1988. Towards a cytogenetic and molecular description of wheat chromosomes. 7th International Wheat Genetics Symposium, Cambridge, England, 13-19 July.
44. Gill BS. 1988. Cytogenetic and molecular analysis of an alien chromosome segment carrying a leaf rust resistance gene in wheat. Colloquium on Applications of Biotechnology for Crop Improvement, Amercam Phytopathological Society Annual Meeting, San Diego, CA; 16 November.
45. Gill BS. 1988. Chromosome banding nomenclature. Discussion leader, Wheat Cytogenetic Stocks Workshop, American Society of Agronomy Annual Meeting, Anaheim, CA; 29 November–3 December.
46. Gill BS. 1988. Cytogenetic and molecular assays for subgenomic affinities in the Triticeae. Workshop on Genome Analysis in Higher Plants, G. Kimber, organizer. 16th International Congress of Genetics, Toronto, Canada; 20-27 August.
47. Gill BS. 1989. Wheat genetics resources and host plant resistance. Invited lecture, NC Division, American Phytopathological Society Meeting, Manhattan, KS; 20 June.
48. Gill BS. 1989. Cytogenetic analysis and genome evolution in polyploid plants using the wheat model system. Seminar, Department of Plant Breeding and Biometry, Cornell University, Ithaca, NY; 8 December.
49. Gill BS. 1989. Chromosome engineering in wheat improvement. Seminar in Department of Anatomy and Physiology, Kansas State University, Manhattan; 28 September.
50. Gill BS. 1990. The rice genome and the evolution of cytogenetics via molecular tools. National Rice Biotechnology Network Meeting, National Chemical Laboratory, Pune, India; 6 July.
51. Gill BS. 1990. Chromosome banding patterns in plants: basis and utility. Invited lecture, 2nd International Symposium on Chromosome Engineering in Plants, University of Missouri, Columbia; 13-15 August.
52. Gill BS. 1990. Cytogenetic stocks for collaborative mapping in wheat. Invited speaker, International Triticeae Mapping Initiative Workshop, Davis, CA; 31 August–2 September.
53. Gill BS. 1990. Molecular cytogenetics of wheat. Invited lecture, Chromosome Engineering in Wheat: E.R. Sears 80th Birthday, Amer Soc Agron, San Antonio, TX, Oct. 27-Nov. 1.
54. Gill BS. 1990. Cytogenetic analysis and mechanisms of genome evolution in polyploid plants using the allopolyploid wheat model. Invited lecture, Department of Genetics, University of Alberta, Canada; 29–31 March.
55. Gill BS. 1990. Safeguards for planned introduction of transgenic crops. Invited participant, USDA-APHIS, Keystone, CO; 6-8 December.

56. Gill BS. 1991. Wheat genetics resource center: home to world wheats from the Middle East. Conoco Distinguished Graduate Faculty Award Lecture, Kansas State Univ, Manhattan, 25 March..
57. Gill BS. 1991. Cytogenetic analysis and genome evolution in polyploid plants using the wheat model system. Invited seminar, Faculty of Genetics, Texas A&M University, 4 April.
58. Gill BS. 1991. Invited seminar, Plant Breeding Institute, Sydney University, Australia; June.
59. Gill BS. 1991. Molecular and cytogenetic mapping of the polyploid genome of wheat. Invited seminar, Plant Molecular Genetics Institute, St. Paul, MN; 11 November.
60. Gill BS. 1991. Physical mapping of the wheat genome. Invited lecture, National and Internat Efforts in Plant Genome Mapping, American Association for the Advancement of Science Symposium, Washington, DC; 19 February.
61. Gill BS. 1991. Molecular mapping of the D genome of wheat. Invited seminar, Kihara Institute for Biological Research, Yokohama, Japan; 9 July.
62. Gill BS. 1991. Experimental evidence for cytoplasm-specific introgression and its role in the evolution of polyploid wheats. Invited seminar, Kihara Memorial Institute Symposium on Cytoplasmic Engineering in Wheat, Hokkaido University, Japan; 4 July.
63. Gill BS. 1991. Approaches towards cytogenetic and molecular mapping of the polyploid genome of wheat. Invited seminar, Laboratory of Genetics, Kyoto University, Japan; 12 July.
64. Gill BS. 1991. Molecular cytogenetic analysis of the polyploid genome of bread wheat. Invited lecture, University of Wisconsin, Madison, 14 March.
65. Gill BS. 1991. Invited seminar, Waite Agricultural Institute, Adelaide, Australia; June.
66. Gill BS. 1992. RFLP mapping in wheat. Invited seminar, Genetics Division, Indian Agricultural Research Institute, New Delhi, India.
67. Gill BS. 1992. Recent progress in plant molecular cytogenetic analysis. Invited seminar, Cytogenetics symposium, ASA/CSSA Annual Meeting, Minneapolis, MN; 2 November.
68. Gill BS. 1992. Molecular cytogenetics of wheat. Invited seminar, Russian Academy of Science, Engelhardt Institute of Molecular Biology, Moscow, Russia; 19 June.
69. Gill BS. 1992. Molecular cytogenetics of wheat. Invited seminar, Department of Crop and Weed Science, North Dakota State University, Fargo; 30 October.
70. Gill BS. 1992. Wheat biotechnology: applications of banding, *in situ* hybridization, and RFLP mapping in crop improvement. Invited seminar, Plant Breeding/Genetics Division, Punjab Agricultural University, Ludhiana, India.
71. Gill BS. 1992. Genetic and physical mapping in *Triticum tauschii* and *T. aestivum*. ITMI Workshop, CIMMYT, Mexico; 23 September.
72. Gill BS. 1992. RFLP mapping in wheat. Two-week course, 30 December, 1991–14 January, under UNDP-TOKTBN Program, Biochemistry Division, Indian Agricultural Research Institute, New Delhi, India.
73. Gill BS. 1992. Molecular cytogenetic mapping of wheat genome. Vavilov Institute of Research, St. Petersburg, Russia, Jul. 2.
74. Friebe B, Jiang J, Raupp WJ, and Gill BS. 1993. Molecular cytogenetic analysis of radiation-induced alien genetic transfers in wheat. 8th International Wheat Genetics Symposium, Beijing, PR China; 20–25 July.

75. Gill BS. 1993. Cytogenetic ladder maps: construction and applications in molecular mapping of wheat genome. Invited speaker, opening session, 8th International Wheat Genetics Symposium, Beijing, PR China; 20 July.
76. Gill BS. 1993. Molecular and cytogenetic analysis of the wheat genome. Invited speaker, Plant Molecular Biology and Genetics Seminar Series, Montana State University, Bozeman; 29 October.
77. Gill BS. 1993. Cytogenetic ladder maps: insights into chromosome structure, function, and behavior. Invited speaker, American Society of Agronomy Symposium "Micro-and Macro-mapping of Plant Genomes", Cincinnati, OH; 11 November.
78. Gill BS. 1993. Chromosome deletion mutants in wheat. Invited speaker, International Workshop on Molecular Biology of the Plant Genome, Yokohama City University, Japan; 4 September .
79. Gill BS. 1993. Wheat Genetics Resource Center. Invited speaker, Living Collections Workshop, National Science Foundation, Washington, DC; 25 October.
80. Gill BS. 1993. *In situ* hybridization: techniques and applications. Invited speaker, State Key Laboratory of Plant Cell and Chromosome Engineering, Institute of Genetics, Chinese Academy of Science, Beijing; 17 July.
81. Gill BS. 1993. *In situ* cytogenetics: an integrated approach for evolutionary, structural, and functional analysis of plant chromosomes. Invited speaker, 15th International Botanical Congress, Yokohama, Japan; 31 August.
82. Gill BS. 1993. Wheat Genetics Resource Center at Kansas State University. Talk to Russian delegation headed by Gen Col Vladimir Semenov, Commander-in-chief of the Ground Forces of the Russian Federation, to K-State, 15 February.
83. Gill BS. 1993. Chromosome banding and *in situ* hybridization workshop. Two week course, Chinese Academy of Agricultural Science, sponsored by UNDP and China International Center, 4–16 July.
84. Gill BS. 1994. Physical mapping of chromosomes. Invited speaker, TABS Minisymposium "New Genetic Tools for Crop Improvement", sponsored by Programs for Plant Genetics and Plant Breeding, Crop Biotech Center and the Institute of Bioscience and Technology Texas A&M University, College Station; 12 January.
85. Gill BS. 1994. Diagnostic assays for genomes, chromosomes, and chromosome segments: implications for sugarcane improvement. Invited speaker, International Consortium of Sugarcane Biotechnology, San Diego, CA; 23 January.
86. Gill BS. 1994. Molecular cytogenetic mapping and manipulation of the polyploid genomes: the wheat model. Invited speaker, Plant Genome III, 2nd International Conference on the Plant Genome, San Diego, CA; 24 January.
87. Gill BS. 1994. Molecular cytogenetic analysis and chromosome manipulation in wheat. Invited speaker, Oat Biotech VIII, Quaker Oats Co, Chicago, IL, 1 February.
88. Gill BS. 1994. Plant molecular cytogenetics: insights into chromosome structure, function, and manipulation. Invited seminar, Texas Tech University, Lubbock; 11 April.
89. Gill BS. 1994. Recognition of species-specific translocations and genes that drive genome evolution and speciation in polyploid plants: the wheat model. Invited speaker, Botanical Society of America Annual Meeting, Knoxville, TN; 9 August.
90. Gill BS. 1994. Molecular cytogenetic analysis of economically important traits in plants. Invited speaker, Kew Chromosome Conference, Kew Botanical Gardens, London, United Kingdom; 1 September.

91. Gill BS. 1995. *In situ* hybridization and plant genome analysis: universal system for rapid molecular, cytogenetic, and phylogenetic identification of individual chromosomes. Plant Breeding and Genetics Program, Michigan State University, East Lansing; 19 January.
92. Gill BS. 1995. Progress on molecular mapping of disease and insect resistance genes in wheat. 20th Hard Red Winter Wheat Workers Workshop, Oklahoma City, OK; 25–27 January.
93. Gill BS. 1995. A perspective on wheat genetics research. Botanical Institute, LM University, Munich, Germany; March.
94. Gill BS. 1995. Molecular cytogenetic analyses in wheat. Gaterslebener Kolloquium, Institut für Pflanzengenetik und Kulturpflanzenforschung, Gatersleben, Germany; 4 June.
95. Gill BS. 1995. History, objectives, and future of the Wheat Genetics Resource Center (WGRC). 1995 Fall Cereals Conference, Kansas State University, Manhattan, KS; 3–4 August.
96. Gill BS. 1995. Tools for physiological mapping of cereal genomes. ITMI Workshop, John Innes Centre, Norwich, 1–3 September.
97. Gill BS. 1995. Expanding genetic maps: re-evaluation of the relationship between chiasmata and crossovers. 12th International Chromosome Conference, San Lorenzo de El Escorial, Madrid, Spain; 11–15 September.
98. Gill BS. 1995. Opportunities for biotechnology and cytogenetics research in wheat improvement. Morocco/ICARDA Planning Meeting, Rabat, Morocco; 22–24 September.
99. Gill BS. 1995. Frontiers in molecular cytogenetics research. Seminar, Plant Breeding Discussion Group, University of Minnesota, St. Paul; 3 November.
100. Gill BS. 1995. A sabbatical leave in Deutschland. Seminar, Department of Plant Pathology, Kansas State University, Manhattan; 9 November.
101. Gill BS. 1995. Wheat genetic maps – relevance to grain quality. Seminar, Department of Grain Science, Kansas State University, Manhattan, 27 November.
102. Gill BS and Seifers D. 1995. From wild relatives of wheat. 1995 Kansas Commodity Classic, Great Bend, KS; 3–5 December.
103. Gill BS. 1996. Unique contributions of classical and molecular cytogenetics research. Seminar, Gatersleben Research Conference on Molecular Markers in Plant Genome Analysis and Crop Plant Improvement, Institut für Pflanzenforschung, Gatersleben, Germany; 8 June.
104. Gill BS. 1996. Genetics, genome evolution, and speciation in polyploid plants: wheat model. Seminar, Academy of Sciences of the Czech Republic, Institute of Experimental Botany, Department of Plant Biotechnology, Olomouc, Czech Republic; 12 June.
105. Gill BS, Friebe B, Gill KS, and Endo TR. 1995. Chromosomal engineering and crop improvement in bread wheat. Seminar, FAO/IAEA International Symposium “Use of Induced Mutations and Molecular Techniques for Crop Improvement”, Vienna, Austria; 19–23 June.
106. Gill BS, Gill KS, and Friebe B. 1996. Chromosome biology: insights from comparative genetic and physical mapping. Seminar, AIBS Annual Meeting, Seattle, WA; 5 August.
107. Gill BS. 1996. Genome analysis and crop improvement. Seminar, 5th Annual Meeting, National Rice Biotechnology Network, IARI, New Delhi, India; 15 November.
108. Gill BS. 1996. What is new in plant cytogenetics? Seminar, Nanjing Agricultural University, PR China; 12 December.

109. Gill BS. 1997. Genetic improvement of wheat. Description of purpose and activities of the Wheat Genetics Resource Center to Cargill Steering Committee, Kansas State University, Manhattan; 7 January.
110. Friebe B, Raupp WJ, and Gill BS. 1997. Alien sources for disease and pest resistance in wheat improvement. Seminar, International Symposium on Current Topics in Plant Cytogenetics Related to Plant Improvement, IFA, Tullin, Austria, 21–22 February.
111. Gill BS. 1997. Unique contributions of plant molecular cytology. A historical perspective and some recent results. Invited seminar to International Workshop on Analysis and Utility of Plant Chromosome Information, Joetsu University of Education, Nigata, Japan; 17 March.
112. Gill BS. 1997. Where is rice in wheat? Invited lecture to Rice Genome Project, Tsukuba, Japan; 21 March.
113. Gill BS. 1997. New frontiers in plant genetics and crop improvement: contributions using the wheat model. Invited lecture to Kihara Institute of Biological Research, Yokohama, Japan, 21 March.
114. Friebe B, Raupp WJ, and Gill BS. 1997. Alien sources for disease and pest resistance in wheat improvement. Seminar, Agricultural Research Institute of the Hungarian Academy of Science, Martonvásár, Hungary, March 28.
115. Gill BS. 1997. Meiosis under the microscope: chromosomal, structural, and functional differentiation and physical ends dictate the distribution of chiasmata. Invited lecture to 3rd European Conference on Meiosis, Wageningen, The Netherlands, 7 April.
116. Gill BS. 1997. Where are genes in wheat? Crops and Plant Pathology Special Seminar, Washington State University, Pullman; 29 April.
117. Gill BS. 1997. Wheat Genetics Resource Center. Description of purpose and activities of the Wheat Genetics Resource Center to Congressional Aides Tour, Kansas State University, Manhattan; 4 August.
118. Gill BS and Sears RG. 1997. Exportable hard white wheat? Partnership at the Texas Gulf, Kansas State University; 15 October.
119. Gill BS. 1997. Careers in biotechnology. Talk to 8th grade class, Eisenhower Middle School, Manhattan, KS; 12 December.
120. Badaeva ED, Friebe B, Zoshchuk SA, Zelenin AV, and Gill BS. 1998. Genome differentiation in diploid and polyploid *Aegilops* species. 9th International Wheat Genetics Symposium, Saskatoon, Canada; 2 August.
121. Gill BS. 1998. Wheat genetics in the wheat state. Seminar, Division of Biology, Kansas State University; 6 November.
122. Gill BS. 1998. Interdisciplinary programs. Invited lecture, Provost's Lecture Series, Research and Graduate Education, Kansas State University, Manhattan; 13 November.
123. Gill BS. 2000. Polyploidy. Workshop organizer. Plant and Animal Genome Meetings VIII, San Diego, CA; 11 January.
124. Gill BS. 2000. Transgenes in wheat: FISH mapping and expression. ITMI–Applications of molecular genetics in the Triticeae, Plant and Animal Genome Meetings VIII, San Diego, CA; 9 January.
125. Gill BS. 2000. Molecular and cytogenetic analysis in wheat. Symposium on wheat molecular and cytogenetics, State Key Laboratory of Plant Cell and Chromosome Engineering, Institute of Genetics, Chinese Academy of Sciences, Beijing; 26 April.

126. Gill BS. 2000. Recent advances in wheat genetics. Cytogenetics Institute, Nanjing Agricultural University, PR China; 29 April.
127. Gill BS. 2000. Wheat genome analysis. South China Agricultural University, Guangzhou; 2 May.
128. Gill BS. 2000. Molecular cytogenetics of wheat. National Key Laboratory of Crop Genetics Improvement, Huazhang Agricultural University; Wuhan, PR China; 4 May.
129. Gill BS. 2000. Analysis of genes induced in wheat spikes upon infection with *Fusarium graminearum* and their manipulation to improve wheat plant resistance to Fusarium head scab. International Symposium on Wheat Improvement for Scab Resistance, Suzhou, PR China; 7 May.
130. Gill BS. 2000. Genomics of wheat, the polyploid genetic model. Keynote speaker, Minisymposium “Model organisms and lessons learned from DNA”, Department of Biochemistry and Molecular Biology, Oklahoma State University, Stillwater; 20 July.
131. Gill BS. 2000. Current status and prospects for resistance gene transfers by cytogenetics and chromosome engineering. Great Plains Cereals Biotechnology Consortium Symposium, Sheraton Four Points Hotel, Kansas City, MO; 14 September.
132. Gill BS. 2001. Polyploidy. Workshop organizer. Plant and Animal Genome Meetings IX, San Diego, CA; 11–17 January.
133. Qi LL, Friebe B, and Gill BS. 2001. Manipulation of genetic recombination in wheat. ITMI workshop, Plant and Animal Genome Meetings IX, San Diego, CA; 13 January.
134. Gill BS. 2001. Highlights of genomics and biodiversity research integration at the Wheat Genetics Resource Center. International workshop “Integration of Biodiversity and Genome Technology for Crop Improvement”, Ipochal International Congress Center, Tsukuba, Japan; 30 November.
135. Gill BS. 2001. Chromosome engineering and wheat improvement.” Warren E. Kronstad Symposium, CIMMYT, Cd. Obregon, Mexico; 16 March.
136. Gill BS. 2001. Genome analysis and crop improvement in bread wheat. Dept Bot and Plant Path, Purdue University, West Lafayette, IN; 21 March.
137. Gill BS. 2001. Polyploid genome analysis: the wheat model. Texas A&M Univ, College Station, TX; 29 March. Invited presentation.
138. Gill BS. 2001. Impact of chromosome and genetic engineering in wheat improvement. The First International Conference on Biotechnology–Applications for the arid regions, Kuwait Institute for Scientific Research; State of Kuwait; 9–11 April. Invited presentation.
139. Gill BS. 2001. Wheat Genetics Resource Center–Developing useful collaborations. Ann Mtg Northcentral Div Amer Phytopath Soc; Manhattan, KS; 19–21 June. Invited presentation.
140. Gill BS. 2002. Polyploidy. Workshop organizer. Plant and Animal Genome Meetings X, San Diego, CA; 13–18 January.
141. Gill BS. 2002. Chromosome archeology and the mechanisms of origin, evolution, and speciation of cultivated and wild wheats. Biotechnology Seminar Series, University of Lincoln, Nebraska; 5 February.
142. Gill BS. 2002. Organization of genetic diversity in the Triticeae tribe of grasses with particular reference to the wheat species complex. 6th Gatersleben Research Conference, Plant Genetic Resources in the Genomics Era: genetic diversity, genome evolution and

- new applications, Dedicated to the centenary of Hans Stubbe (1902–1989), the founder of the Gatersleben Institute, IPK Gatersleben-Meinsdorf, Germany; 8 March.
143. Gill BS. 2002. Past, present, and future of wheat genome analysis. INRA–CNRS–UNGV, Genopole, Evry, Cedex, France. 12 March.
  144. Gill BS. 2002. International Wheat Genomics Program: A Proposal. Annual ITMI meeting, Winnipeg, Canada, 3 June.
  145. Gill BS. 2002. Biodiversity, cytogenetics, genome analysis, the 21st century biology and crop improvement. International Rice Congress, Beijing, China. 7 September. Invited speaker.
  146. Gill BS. 2002. A wheat physical map of 10,000 EST loci and the IGROW 2010 project. Nanjing Agricultural University, Nanjing, China. 11 September. Invited speaker.
  147. Gill BS. 2002. Wheat genomics. Institute of Genetic Resources, Chinese Academy of Agricultural Sciences, Beijing. 18 September. Invited speaker.
  148. Gill BS. 2002. Wheat genomics. Genetics Institute, Chinese Academy of Sciences, Beijing, China. 19 September. Invited speaker.
  149. Gill BS. 2002. Wheat genomics. 2<sup>nd</sup> International Group meeting on Wheat Technologies for Warmer Areas, Pune India. 25 September. Invited speaker.
  150. Gill BS. 2002. Charley's clan and modern cytogenetics. University of California, Davis. 27 September. Invited speaker. Gill BS. 2003. Biodiversity is our bread and butter and genomics is the key to unlock the pantry. Punjab Agriculture University (PAU) Ludhiana Campus-wide seminar, 11 March.
  151. Gill BS. 2003. Leveraging biotechnology and biodiversity for a doubly green revolution in agriculture. PAU-Ludhiana Plant Breeding seminar, 13 March.
  152. Gill BS. 2003. Perfect markers for wheat breeding: Genes cloned, lessons learned and future prospects. PAU-Ludhiana Molecular Markers in Plant Breeding seminar, 14 March.
  153. Gill BS. 2003. A review of wheat biotechnology research at KSU. IARI, New Delhi, 17 March.
  154. Gill BS. 2003. Agribiotechnology: Molecular Breeding. Plenary speaker. 'Knowledge Millennium III: The Business of Biotechnology' organized by ASSOCHAM. 21–23 March 2003, New Delhi, India.
  155. Gill BS. 2003. Wheat gene discovery: a tale of three genes. Tenth International Wheat Genetics Symposium, Paestum, Italy, 1-6 September. Invited speaker.
  156. Gill BS. 2003. A transcriptome map of wheat. Tenth International Wheat Genetics Symposium, Paestum, Italy. 1-6 September. Invited speaker.
  157. Gill BS. 2004. International Genome Research on Wheat. Rice Genome Program Meeting, Tshkuba, Japan. 6 February. Invited speaker.
  158. Gill BS. 2004. Research program for FHB resistance in NSF Wheat Genome Project in USA. Japan International Research Center for Agricultural Sciences Workshop on Collaborative Research for Fusarium Head Blight Resistance in Wheat and Barley, Tsukuba, Japan. 11 February. Invited speaker.
  159. Gill BS. 2004. International Genome Research on Wheat (IGROW). National Wheat Worker's Workshop, Kansas City, MO. 23 February. Invited speaker.
  160. Gill BS. 2004. Cereal comparative genetics reveals patterns of chromosome conservation and novelty. International Triticeae Mapping Initiative 2004 Summer Workshop, University of Minnesota, Minneapolis, MN. 24 May. Invited speaker.

161. Gill BS. 2004. International Genome Research on Wheat (IGROW): current status and future prospects. Canada Agriculture, Ottawa, Ontario. 2 June. Invited speaker.
162. Gill BS. 2004. The International Genome Research on Wheat (IGROW) project. 2004 Kansas Wheat Day, Agricultural Research Center, Hays, KS. Invited speaker.
163. Gill BS. 2004. Why I work on wheat . . . or we ought to work on wheat—the staff of life? Crops Seminar Series, Department of Crop and Soil Sciences, Washington State University, Pullman. 22 September. Invited speaker.
164. Gill BS. 2005. IGROW. Plant and Animal Genome Meetings XIII, San Diego, CA. 15–19 January. Workshop organizer.
165. Gill BS. 2005. Wheat Genetic Resource Center—review of impact on agrobiodiversity during the first 25 years and future plan. International Conference on Promoting Community-driven Conservation and Sustainable Use of Dryland Agrobiodiversity. ICARDA, Aleppo, Syria. 18 April.
166. Gill BS. 2005. Genome physical mapping and sequencing, ITMI Workshop, Bozeman, Montana. 31 May. Workshop organizer.
167. Gill BS. 2005. Wheat genome mapping and sequencing. Genomics: Concepts and Applications for Cereal Grain Quality Improvement. Amer Assoc Cereal Chem Annual meetings, Orlando, Florida. September.
168. Gill BS. 2005. Wheat rust disease management: Host genetic resources, cytogenetic transfer and molecular analysis. Intern Rust Conf, Sydney, Australia. 20 September.
169. Gill BS. 2005. Crop plant resources: Genetics and genomic research suggest a model for biodiversity. Internat Council on Sustainable Agric, Toronto, Canada. Banquet address. 25 September.
170. Gill BS. 2005. Management and utilization of wild relatives of wheat in germplasm enhancement: current status and future prospects. Keynote talk, 7th Intern Wheat Conf Abstracts, Mar del Plata, Argentina.
171. Gill BS. 2006. Wheat Genetic and Genomic Resources Center: management of host plant resistance for leaf rust. Northern Crop Science Laboratory, Fargo, ND. 15 August.
172. Gill BS. 2007. Differential gene expression in hexaploid wheat. PAG, San Diego, CA, January.
173. Gill BS. 2007. Sequencing the wheat genome. 2007 Bayer Cereal Crops Media Summit, Tampa Bay, FL. 9 February.
174. Gill BS. 2007. Wheat Genetic and Genomic Resources Center: Research highlights and genome sequencing project. Pant Nagar Agricultural Univ, UP, India. 24 March.
175. Gill BS. 2007. Wheat Genetic and Genomic Resources Center: Research highlights and genome sequencing project. Punjab Agricultural Univ, Ludhiana, PB, India. 28 March.
176. Gill BS. 2007. Wheat gene and genome analysis. Biology Department, Wichita State Univ, Wichita, KS. 9 April.
177. Gill BS. 2007. Genetics and genomics of wheat-domestication driven evolution. International Triticeae Mapping Initiative Workshop, Maria del Plata, Israel. 15 April.
178. Gill BS. 2007. Wheat chromosome and genome analysis. Weizmann Inst Science, Rehovot, Israel. 23 April.
179. Gill BS. 2007. Rules (genetic mechanisms) for allopolyploid genome evolution and speciation. International Conference on Polyploidy, Heterosis and Epigenetics, Beijing, China. 22 May.

180. Gill BS. 2007. Update on IWGSC project and genomics of wheat domestication-driven evolution. Chinese Academy of Agricultural Sciences, Beijing, China. 27 May.
181. Gill BS. 2007. Cryptic wheat-alien translocations: Bonanza for agriculture. International Conference on Molecular Breeding, Beijing, China. 22 September.
182. Gill BS. 2007. IWGSC. A sequence ready physical map of the wheat genome. First National Wheat Genomics Conference, Kansas City, MO. 28 December.
183. Gill BS. 2008. IWGSC–A physical map and sample sequencing of group 3 chromosomes of wheat. 4 January.
184. Gill BS. 2008. Wheat Gene and Genome Analysis. KSU College of Veterinary Medicine. 6 March.
185. Gill BS. 2008. Wheat Genome, Chromosome, and Gene Analysis. Colorado State University-Fort Collins. 1 May.
186. Gill BS. 2008. Resources for Wheat Genome, Chromosome, and Gene Analysis. South Dakota State University, Brookings. 18 April.
187. Gill BS. 2008. Wheat Genomic Mapping – Historical Review. Nanjing Agricultural University, PR China. 12 May.
188. Gill BS. 2008. Wheat Genomic Mapping – Sequence ready BAC-contig map. Nanjing Agricultural University, PR China. 12 May.
189. Gill BS. 2008. IWGSC–Towards the construction of a sequence ready map of chromosome 3AS arm of wheat. In : From Seed to Pasta, Proceedings of an International Meeting, Bologna, Italy. 30 June.
190. Gill BS. 2008. Wheat genetics history–A Pioneer’s Overview: Part I. Classical Genetic Analysis (1900-60). INRA Institute of Genetics, Diversity and Eco-physiology of Cereals, Clermont-Ferrand, France. 5 November.
191. Gill BS. 2008. Wheat genetics history–A Pioneer’s Overview: Part II: Modern Genetic Analysis to Genomics Era (1970-current). INRA Institute of Genetics, Diversity and Eco-physiology of Cereals, Clermont-Ferrand, France. 11 November.
192. Gill BS. 2008. Wheat genetics history–A Pioneer’s Overview: Part III: Post Genomics Era and Back to Biology? INRA Institute of Genetics, Diversity and Eco-physiology of Cereals, Clermont-Ferrand, France. 27 November.
193. Gill BS. 2008. Wheat Genetic and Genomic Resources Center–Research Program and Products. Biogemma World Research Headquarters, Riom, France. 26 November.
194. Gill BS. 2008. Triggers and genetic mechanisms of chromosome evolution–Lessons from the wheat model. Perpignan University, France. 28 November.
195. Gill BS. 2009. Carving a Career in Science and Current Scientific Scenario in Agriculture. Punjab Agricultural University Science Club, Ludhiana, India. 22 January.
196. Gill BS. 2009. International Genome Mapping and Sequencing Project. BARC (Bhabha Atomic Research Complex), Mumbai, India. 3 February.
197. Gill BS. 2009. Crop Improvement Strategies–Wheat model. ICRISAT (International Center for Improvement of Semi-Arid Crops), Hyderabad, India. 4 February.
198. Gill BS. 2009. Mapping and gene discovery in wheat: Historical perspective, recent results and future outlook. IndoChina Workshop, Meerut University, India. 15 February.
199. Gill BS. 2009. Cytogenetics and genomics facilitate efficient management of genetic resources for crop improvement. CIMAP (Central Institute of Medicinal and Aromatic Plants), Lucknow, India. 17 February.

200. Gill BS. 2009. Wheat gene and genome analysis. Current status and future prospects. International Wheat Quality Conference, Saskatoon, Canada. 6 June.
201. Gill BS. 2009. Triggers and mechanisms of chromosome evolution: Case histories in wheat. 17<sup>th</sup> International Chromosome Conference, Boone, NC. 26 June.
202. Gill BS. 2009. Conquering Mt. Everest-mapping the 17Gb wheat genome: A historical and autobiographical account. Plant Pathology, Kansas State Univeristy, Manhattan. 17 September.
203. Gill BS. 2010. Molecular markers for efficient management and utilization of plant genetic resources. National Bureau of Plant Genetic Resources, New Delhi, India. 5 January.
204. Gill BS. 2010. Slicing a loaf of bread—the wheat genetic system. Stowers Institute, Kansas City, MO. 21 April.
205. Gill BS. 2010. Genetic Stocks Maintenance—the case for wheat. Genetic Stocks Management Workshop (organizad by Bioversity International), Bologna, Italy. 28-29 April.
206. Gill BS. 2010. TILLING for wheat functional genomics analysis. Nanjing Agricultural University, China. 24 August.
207. Gill BS. 2010. Nature of mutation and phenotypic variation in polyploid wheat. ITMI Annual meeting, Beijing, China. 2 September.
208. Gill BS. 2011. TILLING for wheat functional genomics analysis. Punjab Agricultural University, India. 3 February.
209. Gill BS. 2011. Genomic perspective on dual threats of imperiled native agroecosystems and climate change to world food security. Interantional meeting on climate change, Punjab Agricultural University, India. 8 February.
210. Gill BS. 2011. Wheat productivity enhancement under changing climate. Third International Group Meeting in Wheat, Directorate of Wheat Research (DWR), Dharwar, India. 10 February.
211. Gill BS. 2011. TILLING for wheat functional genomics analysis. National Agri-food Biotechnology Institute, Mahauli, Punjab, India. 18 February.
212. Gill BS. 2011. Advances in the Wheat Genetic System and Impact on Crop Improvement. PGEM, Istanbul, Turkey. 5 May.
213. Gill BS. 2011. Integrated molecular cytogenetics and genomic approaches to wide hybridization: Alien introgression libraries of individual Triticeae species open exciting prospects for crop improvement. Henan Agriculture University, China. 13 June.
214. Gill BS. 2011. Integrated molecular cytogenetics and genomic approaches to wide hybridization: Let us have fun! It is more than crop improvement! Nanjing Agricultural University, China. 16 June.
215. Gill BS. 2012. Protecting crop plants naturally: sources and utilization of genetic resistance for crop improvement. 3rd Global Conference: Plant Pathology for Food Security. Udaipur, India. 10 January.
216. Gill BS. 2012. Sources of genetic variation and a system for high throughput genetic and genomic analysis for wheat crop improvement. National Agro Biotechnology Institute, Chandigarh, India. 23 January.
217. Gill BS. 2012. Sources of genetic variation and a system for high throughput genetic and genomic analysis for wheat crop improvement. Punjab Agricultural University, Ludhiana, India. 31 January.

218. Gill BS. 2012. Genomics of complex genomes and bioinformatics challenges (pre- and post- genomic). Jammu, India. 2 February.
219. Gill BS. 2012. Wheat genome and trait analysis: Applications to OCE and improving wheat heat and drought tolerance. King Abdulaziz University, Jeddah, Saudi Arabia. 12 March.
220. Gill BS. 2012. A wheat genetic and genomic system for analyzing plant and seed productivity traits. Canadian Wheat Improvement Workshop, NRC, Saskatoon. 22 March.
221. Gill BS. 2012. Overview of WGRC research in germplasm, genetic and genomic analysis for wheat crop improvement. Directorate of Wheat Research, Karnal, India. 19 January
222. Gill BS. 2012. Wild sex, crop genetics and crop improvement. Raymond F. Baker Center for Plant Breeding Lecture Series 2012, Evaluation and Utilization of Genetic Resources, Ames, Iowa. 29 June.
223. Gill BS. 2012. Overview of WGRC research in germplasm, genetic and genomic analysis for wheat crop improvement. Tbilisi, Georgia. 15 June.
224. Gill BS. 2012. In situ conservation of crop genetic resources for wheat: Current status and future prospects. Crop Science Society of America Symposium, Putting Collections to work: Focused and Adaptive Strategies, Cincinnati, Ohio. 23 June.
225. Gill BS. 2012. Interspecific gene transfer for native traits in crop improvement: State-of-the art and future prospects. International Conference on Biotechnology, New Delhi, India. 26 December.
226. Gill BS. 2013. Climate change, genomics and crop improvement. National Institute of Plant Genome Research, New Delhi, India. 9 January.
227. Gill BS. 2015. Alien introgression for Fusarium scab resistance in wheat. US Barley Wheat FHB Initiative Meetings, Jan., St. Louis Mo.
228. Gill BS. 2016. Wheat Genetics Resource Center Industry University Cooperative Research Center (WGRC I/UCRC): The Program, Progress and Opportunities. Directorate of Wheat Research, Karnal, India, Jan. 22.
229. Gill BS. 2016. Advanced Molecular Cytogenetic tools for germplasm analysis and crop trait improvement. University of Agricultural Sciences, Dharwar, India, Feb. 2.
230. Raupp WJ, Wu S, Singh N, Tiwari V, Poland J, and Gill BS. 2016. Rapid curation of germplasm collections using genotyping-by-sequencing. EWG Wheat Genetic Resources Steering Group Meeting, Rabat, Morocco, 2-3 February.
231. Raupp WJ, Poland J, Gill BS, Singh N, Wu S, Sehgal S, Tiwari V, Chunneja P, Arora S, Vikram P, and Singh S. 2016. Using genomic resources to rationalize genebank collections. Use case: *Aegilops* diversity and duplication. Genomics for Genebanks meeting, CIMMYT, El Batan, Mexico. 5-8 December.
232. Gill BS. 2016. New methods for enhancing homoeologous chromosome recombination and alien gene transfer efficiency for crop improvement. Plant cytogenetics, cytogenomics, Gene discovery and Crop Improvement Workshop, Nanjing, China, May 14.

233. Gill BS. 2016. Wheat Genetics Resource Center Industry University Cooperative Research Center (WGRC I/UCRC): The Program, Progress and Opportunities, Wheat Breeders Meeting San Antonio, April 19.
234. Singh N, Sehgal S, Wu S, Tiwari V, Raupp WJ, Gill BS, and Poland J. 2016. Efficient donor selection from genebanks. National Association for Plant Breeders Meeting, Raleigh, NC, Aug.
235. Gill BS. 2016. Sears to sequencing: wheat genome and comparative mapping, chromosome manipulation and crop improvement, International Agrobiodiversity Congress, New Delhi, India, Nov. 8.
236. Gill BS. 2016. Wheat Genetics Resource Center Industry/University Cooperative Research Center, The Eternal University Baru Sahib, HP, India, Nov. 12.
237. Gill BS. 2016. Wheat Genetics Resource Center Industry/University Cooperative Research Center: Conserving and deploying genetic diversity for sustainable crop improvement. Punjab Agricultural University, Ludhiana, India, Nov. 15.
238. Gill BS. 2017. Wheat Genetics Resource Center Industry/University Cooperative Research Center: Conserving and deploying genetic diversity for sustainable crop improvement. Arcadia bioSciences, Davis, Ca, Jan. 10.
239. Gill BS. 2017. WGRC I/UCRC. Syngenta monthly Breeders Meeting, Junction City, KS, March 28.
240. Gill BS. 2017. The dynamic wheat, Triticeae and grass genomes: Rapid chromosome evolution and speciation. Kyoto University, Sept. 13.
241. Gill BS. 2017. Wheat Genetics Resource Center Industry University Cooperative Research Center (WGRC I/UCRC): The Program, Progress and Opportunities. Tottori University, Japan. Sept.17.
242. Gill BS. 2017. Cytogenetic explorations into staff of life and life of weeds. Plant Science Dept, Univ. Maryland, Nov.
243. Gill BS. 2018. Wheat Cytogenetics Journey. Sahmyook Univ., Seoul, Korea. Aug. 20.
244. Gill BS. 2018. Gold standard sequence of the wheat genome. Seoul National University, Korea, August 21.
245. Gill BS. 2018. Dynamic sporophytic genomes, inheritance of acquired soma genomic variation into germline, and rapid adoptive evolution in higher organisms. Plenary lecture, Korea Association of Biological Sciences, Peocheng, Korea. August 22.
246. Gill BS. 2018. Molecular cytogenetic evidence on the Lamarckian inheritance of acquired traits and McClintock genome response to challenge driving rapid adaptive evolution in higher organisms. 100 yrs of wheat cytogenetics Research, Meerut, India, November 3.
247. Gill BS. 2018. Conquering Mt. Everest: Gold standard sequence of the wheat genome. PAU, Ludhiana, India. November 5.
248. Gill BS. 2018. Wheat genetic resources conservation and utilization: Vision for the future. National Bureau of Plant Genetic Resources, New Delhi, India. November 15.
249. Gill BS. 2019. Homoeologous recombination in wheat. Plant and Animal Genome (PAG) Meetings, Cytogenetics Workshop, San Diego, CA. January 19.
250. Gill BS. 2019. Towards a futuristic elite wheat/CWR (crop wild relative) germplasm enhancement program. Rabat, Morocco. April 24.
251. Gill BS. 2019. Garden of Eden in Peril. Plant Pathology, KSU. November 9.

252. Gill BS. 2020. FISHing ecc (extrachromosomal circular) DNA elements that defy chromosome control of mitosis and meiosis and drive rapid adaptive evolution. PAG-Cytogenetics Workshop. January 11.
253. Gill BS. 2021. Shifting Paradigms in Crop Improvement Research. Nanjing Agricultural University Workshop, “The New Era in Wheat Genomics”, Decembe 3.
254. Gill BS. 2022. Cytogenetic basis of acquired herbicide resistance and relevance to crop breeding. Henan Agricultural University Golden Jubilee workshop, June 29.
255. Gill BS. 2022. Chromosome Mechanisms and Acquired Herbicide Resistance in Weeds. European Molecular Biology Organization Workshop, Ascona, Switzerland. July 17.
256. Gill BS. 2022. A Career in Science at the Cutting Edge. Association of American Scientists of Indian Origin (AASIO). October 16.
257. Gill BS. 2022. Acquired inheritance in weeds and wheat and its plant breeding potential. Seed to Pasta V1, Bologna, Italy, October 29.
258. Gill BS. 2023. Extra-chromosomal circular-mediated engineering of plant breeding traits. International Conference on Innovations to Transform Drylands. ICRISAT, Hyderabad, India, February 23.
259. Gill BS. 2023. Acquired inheritance in weeds and wheat and its plant breeding potential. Punjab Agriculture University (PAU), Ludhiana, March 13.
260. Gill BS. 2023. Rules governing evolution of structural and numerical chromosomal diversity during speciation. Asian Pacific Chromosome Conference, Takirdag, Turkey, September 18.
261. Gill BS. 2023. WGRC and its contributions to the wheat industry. Workshop organized by the Union of Seed companies and the University of Takirdag, Turkey, September 22.
262. Gill BS. 2023. Webinor. A genome odyssey: Navigating the evolution from cytogenetics to cytogenomics in wheat breeding. Department of Plant Breeding and Genetics, University of Agricultural Sciences, Faisalabad, Pakistan, October 18.
263. Gill BS. 2024. Climate Change and Food Security. Climate Change Forum, Dhudike, Punjab. January 23.
264. Gill BS. 2024. A Career in science at the cutting edge: Conquering Mt. Everest-mapping the 17Gb wheat genome. A historical and autobiographical account. Punjab University, Lahore, Pakistan. February 14.
265. Gill BS. 2024. Conquering Mt. Everest-mapping the 17Gb wheat genome. University of Faisalabad, Pakistan. February 18.
266. Gill BS. 2024. Acquired Inheritance and Plant Breeding for Climate Change. Keynote Speaker, Emerging Technologies in Crop Improvement Symposium, University of Faisalabad, Pakistan. February 19.
267. Gill BS. 2024. Genomics of Alien Variation for Crop Improvement. Keynote Speaker, Genomics Innovations to Foster Advances and Innovations in Crop Improvement Symposium, Punjab Agricultural Univesity, Ludhiana. February 27.
268. Gill BS. 2024. Wheat Productivity Enhancement under Changing Climate. IIWBR, Karnal, India. April 12.

269. Gill BS. 2024. Genetic Resources Conservation and Valorization. INRA Technical Workshop, Genetic Innovation as a Lever for Sustainable and Resilient Agriculture, Rabat, Morocco. April 16.
270. Gill BS. 2024. Wheat Production, Export, Consumption and Outlook in N. America. Panel Presentation, 3<sup>rd</sup> International Wheat Congress, Perth, Australia. September 24.
271. Gill BS. 2025. Herbicide Resistance in Crop Weeds is a Response of McClintock's Dynamic Genome to Challenge. Inaugural Seminar Gurdev S Khush Institute of Genetics, Plant Breeding, and Biotechnology, PAU, Ludhiana. February 19.
272. Gill BS. 2025. A Career at the Cutting Edge of Science-Conquering Mt. Everest, the 17 Gb Wheat Genome. Dept Botany, Punjab University Chandigarh. February 21.
273. Gill BS. 2025. Chromosome and Genome Manipulations since Mendel. Keynote Address, McGill Univ and PAU International Symposium on "Harnessing Genome Editing for Resilient Agriculture", Gurdev S Khush Institute of Genetics, Plant Breeding, and Biotechnology, PAU, Ludhiana. March 4.
274. Gill BS. 2025. Our Biological World and Why We Study Biology. International Science and Technology Week Seminars, Punjab University Chandigarh. August 18.

### ***Popular articles:***

1. Anonymous; with Gill BS. 1984. Goatgrass helps wheat breeders. **Kansas Farmer**, Dec., 1984 (Ag Media Days material).
2. Duffens KL and Gill BS. 1984. The use of *Agropyron* species for germplasm enhancement of common wheat. Amer Soc Agron, 76th Ann Mtg; interpretive summary for press release.
3. Rich D; with Gill BS. 1984. Germplasm bank contains the future of the wheat industry. **High Plains J**, Nov. 5, 1984. (Ag Media Days material).
4. Tarpy C; with Gill BS. 1985. **In: National Geographic**, "Home to Kansas", p. 377.
5. Wittwer S. 1986. Agriculture. **In: World Book Encyclopedia, Annual Science Supplement, 1987**. P. 212; photo, with caption mentioning work of Gill BS with wild wheats.
6. Markley A. 1987. Wheat research: a growing tradition. **In: Kansas State Agriculturist** (Bredow L ed.). **32:6-7**; article based on interview with Gill BS.
7. Howell K. 1988. Breeders seek varieties resistant to wheat virus. **Kansas Farmer**, Jan. 16, p. 16; quoting Willis WG, Wilson DL, and Gill BS.
8. Cox B. 1989. A route to the roots. Scientists looking for breed apart. Newspaper article citing work of Gill BS, **Wichita Eagle-Beacon**, January 1.
9. Kersenbrock K. 1989. Scientists researching wheat traits. **In: Kansas State Collegian**, June 29, p. 3A; article citing work of Gill BS.
10. Steimel D. 1989. Protecting precious seeds. **In: Kansas City Star**, June 11, 1989, pp. F10-11; article with photo about Gill BS and his work on wild wheat germ plasm at KSU.
11. Steimel D. 1989. Helping wheat to flourish. **In: Kansas City Star** June 11, 1989, pp. F1 and F10; article with photo about Gill BS and his work on wild wheat germplasm at KSU.

12. Anonymous. 1991. Center provides exotic germplasm for wheat breeding. **In: K-State Agriculturalist** article on Wheat Genetics Resource Center, Gill BS. 36:4.
13. Anon. 1991. The Plant Science Center - keeping KSU agriculture research and teaching on the cutting edge. **In: KSU Ag Report**, Fall 1991, cover photo and article, including work of Gill BS, Sears RG, and Ham G.
14. Anonymous. 1991. Agronomists honor three scientists. **In: Topeka Capital Journal**; report on ASA Fellowship awards, including Gill BS, Nov. 11.
15. Canby T. 1991. **National Geographic** article on Persian Gulf, cites work of Gill BS.
16. Gerrietts, M. 1991. Wheat tough enough to take the Hessian fly. **Agricultural Research**, Sept., 1991, pp. 22-23; article cites work of Gill BS and others.
17. Plett C. 1991. Wild wheat germplasm valuable to current development. **In: Grass and Grain**, April 2, 1991; featuring Gill BS, Wheat Genetics Resource Center.
18. Walter DKH and Jones T. 1991. Environment: Eastern German seed bank - a living legacy for the world. **Los Angeles Times**, Sept. 24, cites visit of Gill BS to Germany.
19. Anonymous. 1992. Scientists evaluating concept of goat grass. **Manhattan Mercury**, June 21, p. C-3; quoting Gill BS, Cox TS (Agron.), and Sears RG (Agron.).
20. Engler, M. 1992. Scientists creating food of future. **Kansas State University Collegian**, June 18, pp. 13, 20; quoting Gill BS and Hulbert SH.
21. Anderson N. 1993. Russians visit land of Oz. **Kansas State Collegian**, Feb. 16, 1993, p. 1,3; article on visit by Gen Col Vladimir Semenov, Commander-in-chief of the Ground Forces of the Russian Federation, to K-State, including tour of program of the Wheat Genetics Resource Center in Throckmorton Hall.
22. Frey DE. 1993. Russian wheat scientists share science, sacrifice. **In: High Plains Journal**, Feb. 22, p. 5-B; article citing Gill BS.
23. Ernst H. 1995. The rust busters. **Kansas Farmer**, p. 8, August 1995; includes work of R.L. Bowden and Gill BS.
24. AP Wireservices. 1997. Manhattan researchers try to crack crucial genetic code of grains. **The Manhattan Mercury**, Oct. 1, p. A-7; article on Wheat Genetics Resource Center and featuring Gill BS, along with Chen WP and Faris J; with picture.
25. Corey A. 1997. Scientists create more disease resilient wheat. **Kansas State Collegian**, Wednesday, Oct. 8, 1997; article on Wheat Genetics Resource Center, quotes and cites work of Gill BS, Friebe B, Faris J.
26. Suber J. 1997. Blueprint of life. **The Topeka Capital**, 14 September, pp. C-1, C 2; article on Wheat Genetics Resource Center and featuring Gill BS, along with Chen WP and Faris J; with pictures.
27. Anon. 1998. Special research funding headed for Kansas State. **In: The Farmer Stockman of the Midwest**, January 26, 1998, p. 11; mentions work and program of, and cites, Gill BS.
28. Ohlde B. 1998. Clearing a hurdle; transgenic wheat held back by low returns, new stuff still years away from your fields. Pp. 8-9 **In: Kansas Farmer**, January 1998; cites Gill BS, Sears RG.
29. Anonymous. 2002. Wheat gene bank promotes security. **In: Manhattan Free Press**, 14 March. p. 7; mentions WGRC gene bank and cites Gill, BS.
30. Hall E. 2002. Wheat center stores grains for research. **In: Kansas State University Collegian**. p. 10; 28 March.

31. Gaines, Tharran E. 2003. Banking on wheat. **In: AGCO Advantage**. Pp. 4-6; Summer 2003. Article on the Wheat Genetics Resource Center gene bank cites Gill BS and Raupp WJ.
32. Johnson, Angie. 2003. Kansas State develops wheat varieties for Kansas. **In: Manhattan Free Press**. Thursday, 25 December, p. 2. Article on wheat cites Gill, BS.
33. Anonymous. 2005. KWC to complete sequence of common wheat genome. **In: High Plains Journal**, 16 June. Article on wheat genome sequencing cites B.S. Gill.
34. Anonymous. 2009. K-State researchers play major role in fighting new strain of devastating wheat fungus. **In: Kansas City Star**, 23 June. Article on Ug99 stem rust cites B.S. Gill.
35. Gill BS. 2011. PAU on the rebound, Punjab Agriculture University on the rebound. **In: Punjabi Tribune**, India, 27 February.
36. Anonymous. 2012. **In: CSA News**. Transferring high-temperature tolerance in *Aegilops* species to wheat. February, pp. 11, 13.
37. Gill BS. 2014. Research featured in **National Geographic Magazine** with full page photo, October 2014 issue.

Graduate students, post-doctoral fellows, visiting scientists:

M.S. students

Stoddard, Sara L.	1986
Morris, Kay L. D.	1987
Henry, Janet K.	1988
Mickelson-Young, Leigh	1994
Miller, Douglas L.	1994
Zhang, Juan	1995
Wang, Ying Jie	1995
Huang, Li	1998
Maleki, Lili	2000
Khlaasen, Darcey L.	2002
Echalier, Benjamin R.	2003
Wilson, Jamie J.	2008
Rothe, Noland	2010

Ph.D. students

Kam-Morgan, Lauren N.W.	1987
Gill, Kulvinder S.	1990
Jiang, Jiming	1993
Brown, Gina L.	1995
Nasuda, Shuhei	1999

Faris, Justin D.	1999
Ferrahi, Moha	2001
Huang, Li	2002
Brooks, Steven A.	2002
Zhang, Peng	2002
Narasimhamoorthy, Bhrinda	2003
Cox, Cindy M.	2004
Mateos-Hernandez, Maria	2004
Simons, Kristin	2005
Vijayalakshmi, Kolluru	2006
Kurapathy, Vasu	2007
Pumphrey, Michael O.	2007
See, Deven R.	2007
Sood, Shilpa	2008
Olsen, Eric L.	2012
Carcallas, Ronell	2014
Kalia, Bhanu	2015
Joshi, Anupama	2018

#### Post-doctoral Fellows

Sharma, Hari	80/02–83/06	India
Rayburn, A. Lane	83/10–85/12	USA/Oklahoma
Johnson, Jodie	85/08–86/02	USA/Kansas
Randhawa, Jatinder	87/06–88/05	India
Werner, Joanna E.	90/02–92/02	Poland
Kota, Rama	90/05–93/11	India
Lubbers, Edward	90/05–90/06	USA/Arizona
Jiang, Jiming	93/03–95/06	PR China
Gill, Kulvinder	91/01–96/08	India
Jellen, Eric N.	94/09–96/08	USA/Utah
Kynast, Ralf G.	96/10–98/12	Germany
Faris, Justin D.	01/01–01/06	USA/North Dakota
Boyko, Elena	96/12–01/06	Ukraine
Zhang, Peng	02/12–05/03	PR China
Huang, Li	05/02–09/07	PR China
Kurapathy, Vasu	05/07–07/08	India
Sehgal, Sunish	09/06–14/09	India
Kaur, Gaganpreet	10/08–08/11	India

Quarishi, Umar	10/09–02/12	Pakistan
Danilova, Tatiana	09/10–07/16	Russian Federation
Rawat, Nidhi	10/09–?	India
Tiwari, Vijay	10/12–?	India
Koo, Dal-Hoe	03/13–07/18	Korea
Kalia, Bhanu	01/16–07/18	India

#### Visiting Scientists with formal appointment at Kansas State University

Endo, Takashi R.	81/04–82/09	Japan
Chen, Peidu	82/07–83/11	PR China
Schlegel, Rolf	84/02–84/07	East Germany
Fan, Lu	84/04–84/06	PR China
Endo, Takashi R.	88/07–88/10	Japan
Tsujimoto, Hisashi	88/08–89/06	Japan
Friebe, Bernd Ralf	89/01–89/12	West Germany
Dhaliwal, Harcharan	89/02–89/06	India
Jauhar, Prem P.	89/04–89/05	India
Mukai, Yasuhiko	89/07–90/04	Japan
Tyagi, Bali Ram	89/07–90/03	India
Endo, Takashi R.	89/07–89/09	Japan
Badaev, Nikolai S.	89/11–90/11	Russia
Badaev, Ekaterina	90/07–90/12	Russia
Chen, Peidu	90/07–92/01	PR China
Endo, Takashi R.	90/07–90/08	Japan
Mukai, Yasuhiko	90/07–90/09	Japan
Friebe, Bernd Ralf	91/04–(current)	Germany
Bluethner, W. Dieter	91/05–91/07	Germany
Singh, Sukwinder	91/12–94/03	India
Hohmann, Uwe	92/05–92/12	Germany
Endo, Takashi R.	92/07–92/08	Japan
Mukai, Yasuhiko	92/07–92/09	Japan
Boiko, Elena	93/07–95/08	Ukraine
Badaeva, Ekaterina	93/08–95/08	Russia
Cabrera, Adoracion	93/08–93/11	Spain
Deol, Gurdev S.	93/11–94/06	India
Plaha, P.K.	94/01–94/08	India
McIntosh, Robert A.	94/03–94/04	Australia
Cai, Xiwen	94/06–94/06	PR China
Wen, Yuxiang	95/02–95/05	PR China

Li, Bin	95/02–95/05	PR China
Chen, Peidu	95/10–96/01	PR China
Liu, Dajun	95/10–96/01	PR China
Köszegi, Bela	95/10–95/10	Hungary
Laddomada, Barbara	95/12–96/09	Italy
Qi, Lili	96/01–96/10	PR China
Wang, Suling	96/01–97/01	PR China
Sutka, Jozsef	96/07–96/07	Hungary
Chen, Qin	96/07–96/07	PR China
Smith, C. Michael	96/08–97/06	KSU/Entomology
Chen, Wenpin	96/08–98/12	PR China
Sacco, Francisco	97/01–97/03	Argentina
Li, Wanlong	97/01–09/06	PR China
Liu, Dajun	97/06–97/07	PR China
Chen, Peidu	97/06–97/07	PR China
Linc, Gabriella	97/08–98/07	Hungary
Qi, Lili	97/08–09/06	PR China
Dhar, Manoj Kumar	98/04–99/04	India
Ram, Sewa	98/06–98/08	India
Nayak, Pritilata	98/11, 01/02	India
Fang, Shi	01/01–01/03	PR China
Chahal, Gulzar Singh	02/07–02/12	India
Lamouroux, Didier	02/10–03/04	France
Kumar, Sundip	04/04–05/04	India
Chen, Peidu	04/12–05/02	PR China
Bi, Caili	09/07–09/09	PR China
Bocchieri, Francesco	09/07–02/08	Italy
Chang, Zhijian	03/07–03/09	PR China
Zhao, Wanchun	03/07–04/08	PR China
Kumar, Sundeep	06/08–07/09	India
Liu, Cheng	09/08–11/10	PR China
Chen, Qian	06/07–02/11	PR China
Liu, Wenxuan	09/09–11/03	PR China
Laddomada, Barbara	10/11–11/06	Italy
Abbasov, Mehraj	11/10–11/12	Azerbaijan
Li, Chunxin	12/11–12/12	PR China
Liu, Wenxuan	09/13–01/15	PR China
Bruschi, Martina	11/15–07/16	Italy

Extra-mural support:

Support Agency	Start	End	Level	Title
NSF	80/07	83/06	\$70,000	Cytogenetic analysis of regenerated plant populations from mesophyll protoplasts of potato. [Gill]
NSF	81/05	84/10	\$131,681	Genetic engineering in alfalfa through protoplast fusion and regeneration of somatic hybrids. [Johnson, Stuteville, Gill]
KS Wheat Comm.	81/07	87/06	\$142,441	Establishment of a germplasm resource bank and production of disease resistant wheat breeding lines for Kansas. [Gill]
KCIA	81/08	86/06	\$25,850	New sources of improved germplasm in wheat breeding. [Gill]
USDA	82/08	85/07	\$125,000	Wheat- <i>Agropyron</i> hybrids: cytogenetic analysis of genome in polyploid <i>Agropyron</i> species. [Gill]
USDA	83/07	85/06\$	70,000	Tissue culture as a tool for alien gene transfer in wheat. [Sears (Agron), Gill]
NSF	84/10	87/09	\$255,000	Organization and control of gibberellic acid-inducible genes in barley. [Muthukrishnan (Biochem), Gill]
USDA	85/07	87/06	\$81,000	Genome evolution in polyploid species: cytogenetic analysis of wheat- <i>Elymus</i> addition lines. [Gill]
KS Dept. Econ. Dev.	86/02	87/01	\$16,000	Plant biotechnology: biotechnological applications in wheat germplasm enhancement. [Gill]
Pioneer	86/02	87/01	\$24,000	Biotechnological applications in wheat germplasm enhancement. [Gill]
CIMMYT	86/04	86/12	\$5,000	Development of synthetic wheats and their use in broadening the genetic base for wheat improvement at CIMMYT [Gill]
USDA-CRGP	86/07	89/06	\$100,000	Physical mapping of the genome of

KS Wheat Comm.	87/07	90/06	\$92,326	wheat. [Gill] Wheat Genetics Resource Center and its contributions to Kansas Wheat Industry. [Gill]
KTEC	88/07	89/0	\$15,000	Development of the hard white wheat industry in Kansas. [Gill]
KS Wheat Comm.	88/07	89/06	\$31,419	Wheat Genetics Resource Center and its contributions to Kansas wheat industry. [Gill]
USDA-CRGP	88/07	91/06	\$110,000	Cytogenetic analysis of fertility, vitality and resistance genes in a polyploid plant. [Gill]
CIMMYT	88/10	89/09	\$6,000	Development of synthetic wheats and their use in broadening the genetic base for wheat improvement at CIMMYT. [Gill]
USDA	89/05	90/04	\$94,800	Wheat Genetics Resource Center at Kansas State University. [Gill]
KTEC	89/07	90/06	\$16,000	Development of the hard white wheat industry in Kansas. [Gill]
KS Wheat Comm.	89/07	90/06	\$33,728	Wheat biotechnology: construction of chromosome maps. [Gill]
US-Japan Coop. RP	89/07	90/10	\$20,000	Genetically-induced chromosome deletion mapping in common wheat. [Gill, Endo (Japan)]
USDA-CRGP	89/09	91/08	\$100,000	Genetically-induced chromosome deletion mapping in wheat. [Gill]
USDA	90/05	91/04	\$93,852	Wheat Genetics Resource Center at Kansas State University. [Gill]
KS Wheat Comm.	90/07	91/06	\$35,000	Wheat Genetics Resource Center and its contributions to Kansas Wheat Industry. [Gill]
USDA	91/05	92/04	\$148,000	Wheat Genetics Resource Center at Kansas State University. [Gill]
KCIA	91/07	92/06	\$3,000	Cultivar identification using DNA fingerprinting in wheat. [Gill, Gill]
KS Wheat Comm.	91/07	92/06	\$50,000	Wheat Genetics Resource Center and its contributions to Kansas wheat industry. [Gill]
USDA	91/08	93/07	\$96,000	Molecular cytogenetic analysis in wheat. [Gill, Kota, Werner]

Rockefeller Found.	91/12	92/12	\$10,000	Research funds for Sukwinder Singh. [Gill, Singh]
USDA	92/05	93/04	\$150,608	Wheat Genetics Resource Center at Kansas State University. [Gill]
KCIA	92/07	93/06	\$5,000	Cultivar identification using DNA fingerprinting in wheat. [Gill, Gill]
KS Wheat Comm.	92/07	93/06	\$50,000	Wheat Genetics Resource Center and its contributions to Kansas wheat industry. [Gill]
MPBC-USDA	92/07	94/06	\$141,178	Gene tagging and Qlt mapping in hexaploid/diploid wheat crosses. [Cox (Agron), Gill, Sears (Agron)]
UC Davis (USDA)	92/08	94/07	\$64,875	Development of an RFLP linkage map for cultivated wheat. [Gill]
USDA (Albany, CA)	92/09	94/09	\$30,000	Compilation of a wheat cytogenetic mapping database. [Gill]
USDA	92/08	95/07	\$300,000	Cytogenetically based physical map of wheat genome. [Gill]
UC Davis	92/09	94/08	\$15,278	Research collaboration group on molecular mapping in wheat and its relatives. [Gill]
USDA	92/09	95/08	\$127,500	Development of a high-density chromosome map using region-specific libraries. [Hulbert, Gill, Delaney]
USDA Spec. Grant	93/05	94/04	\$150,121	Wheat Genetics Resource Center at Kansas State University. [Gill]
MPBC-USDA	93/07	94/06	\$70,756	Gene tagging and QTL mapping in hexaploid/diploid wheat crosses. [Cox (Agron), Gill, Sears (Agron)]
KS Wheat Comm.	93/07	94/06	\$55,000	Wheat Genetics Resource Center and its contributions to Kansas wheat industry. [Gill]
USDA	93/07	5/06	\$100,000	The sub-arm aneuploids of common wheat. [Gill]
KCIA	93/07	95/06	\$7,700	Characterization and mapping of five new leaf rust resistance genes from wild relatives of wheat. [Bowden, Cox (Agron), Gill]

USDA	93/07	95/06	\$100,000	Inheritance of mycorrhizal dependence in wheat: impact on yield sustainability. [Hetrick, Cox (Agron), Gill]
NSF	94/01	94/06	\$11,000	U.S. Japan Seminar: Classical and molecular cytogenetic analysis of cereal genomes. [Gill]
McKnight Found.	94/04	94/12	\$5,000	Collaborative crop research program - planning grant. [Gill]
UC Davis	94/04	96/09	\$6,000	Development of DNA probes and stocks, and coordination of wheat genome mapping. [Gill]
USDA Spec. Grant	94/05	95/04	\$185,044	Wheat Genetics Resource Center at Kansas State University. [Gill]
USDA-CRGP	94/07	95/06	\$64,000	Molecular cytogenetics and plant genome mapping. [Gill, Jiang]
KS Wheat Comm.	94/07	95/06	\$55,000	Wheat Genetics Resource Center and its contributions to Kansas wheat industry. [Gill]
McKnight Found.	95/04	97/05	\$546,000	Collaborative crop research program. [Gill, Chen (PROC), Liu (PROC)]
USDA Spec. Grant	95/05	96/04	\$165,333	Wheat Genetics Resource Center at Kansas State University. [Gill]
KS Wheat Comm.	95/07	96/06	\$55,000	Wheat Genetics Resource Center and its contributions to Kansas wheat industry. [Gill]
USDA Spec. Grant	96/05	97/04	\$165,398	Wheat Genetics Resource Center at Kansas State University. [Gill]
KS Wheat Comm.	96/07	97/06	\$51,000	Wheat Genetics Resource Center and its contributions to Kansas wheat industry. [Gill]
USDA	96/07	98/07	\$97,147	Origin and healing of chromosomal breaks induced by gametocidal genes. [Friebe, Gill]
USDA Spec. Grant	97/05	98/04	\$164,491	Wheat Genetics Resource Center at Kansas State University. [Gill]
KS Wheat Comm.	97/07	98/06	\$80,000	Wheat Genetics Resource Center and its contributions to Kansas wheat industry. [Gill]
KCIA	97/07	98/06	\$4,000	Agronomic and physiological traits

UC Davis	97/09	98/08	\$9,180	from wild relatives for developing improved wheat cultivars. [Paulsen (Agron), Sears (Agron), Gill]
USDA Spec. Grant	98/05	99/04	\$243,976	Research collaboration group on molecular mapping in wheat and its relatives [extension]. [Gill]
McKnight Found.	98/07	01/05	\$805,000	Wheat Genetics Resource Center at Kansas State University. [Gill]
KCIA	98/07	99/06	\$2,800	Collaborative crop research program/USA-KSU. [Gill, Chen (PROC), Liu (PROC)]
KSWheat Comm.	98/07	99/06	\$80,000	A seed splitter for more efficient planting of disease screening nurseries. [Bockus, Gill]
USDA Spec. Grant	99/05	00/04	\$243,976	Wheat Genetics Resource Center and its contributions to Kansas wheat industry. [Gill]
USDA Spec. Grant	00/05	01/04	\$238,517	Wheat Genetics Resource Center at Kansas State University. [Gill]
KS Wheat Comm.	99/07	00/06	\$80,000	Wheat Genetics Resource Center at Kansas State University. [Gill]
NSF	99/09	03/08	\$222,000	Wheat Genetics Resource Center and its contributions to Kansas wheat industry. [Gill]
USDA	00/05	03/09	\$60,203	Structure and function of the expressed portion of the wheat genome. [Gill]
KS Wheat Comm.	00/07	01/06	\$80,000	Microsatellite marker development and construction of a microsatellite size database. [Gill]
USDA	00/09	04/08	\$289,790	Wheat Genetics Resource Center and its contributions to Kansas wheat industry. [Gill]
NSF	01/07	03/06	\$62,386	Assessment of the insular organization of the wheat D genome by physical mapping. [Gill]
USDA	01/09	03/08	\$140,000	Microarray scanner and phosphoimager as capital improvements for plant genomic infrastructure. [Trick, Hulbert, Gill]
				Mutational analysis of a gametocidal

USDA Spec. Grant	01/05	02/04	\$244,165	gene, <i>Gc2</i> , of wheat [Friebe, Gill] Wheat Genetics Resource Center at Kansas State University. [Gill]
USDA USWBSI	01/05	02/04	\$58,408	Enhanced resistance to scab by genetic engineering with genes for PR-proteins. [Muthukrishnan (Biochem), Gill, Trick]
KS Wheat Comm.	01/07	02/06	\$85,000	Wheat Genetics Resource Center and its contributions to Kansas wheat industry. [Gill]
USDA-IFAFS	01/10	05/09	\$305,834	Bringing genomics to the wheat fields. [Fritz (Agron), Gill]
USDA Spec. Coop	02/06	05/07	\$20,116	Development and characterization of genetic mutants in durum and common wheat. [Faris (NDSU), Gill]
USDA Spec. Grant	02/07	03/06	\$243,000	Wheat Genetics Resource Center at Kansas State University. [Gill]
USDA Spec. Agr.	02/07	07/06	\$33,000	Facilitate development of new molecular markers for wheat. [Zeigler, Gill]
McKnight Found.	02/04	06/04	\$920,000	Better understanding and further utilization of genes for wheat scab resistance-Collaborative Crop Research Program/USA-KSU. [Gill, Chen (PROC), Liu (PROC), Ma (PROC)]
NSF	03/09	08/07	\$323,662	VCA: Dealing in the wheat genome: development and application of large-scale reverse genetic tools for crop plants. [Gill, Nelson]
NSF	03/09	07/08	\$266,176	Haplotype polymorphism in polyploidy wheats and their diploid ancestors. [Gill]
NSF	03/11	04/10	\$20,000	Workshop on wheat genome sequencing. [Gill]
USDA	03/11	04/10	\$20,000	Workshop on wheat genome sequencing. [Gill]
KS Wheat Comm.	04/07	05/06	\$90,000	Wheat Genetics Resource Center and its contributions to Kansas wheat industry. [Gill]

USDA Spec. Grant	04/07	05/06	\$238,517	Wheat Genetics Resource Center at Kansas State University. [Gill]
KSU	04/07	09/06	\$925,000	Bioinformatics [Wallentine, Gill]
USDA	04/09	07/05	\$70,342	Map-based cloning of a major QTL for Fusarium head blight resistance in wheat. [Gill]
USDA Spec. Agr.	04/09	09/08	\$22,317	Karnal bunt germplasm quarantine and grow out. [Gill]
KSU Plant Biotech Center	05/01	07/12	\$60,000	Identification of components required for <i>Lr21</i> -mediated resistance in wheat. [Gill, Huang]
USDA	05/06	10/05	\$36,000	Positional cloning of the <i>Lr46/ Yr29</i> gene of wheat. [Gill]
KS Wheat Comm.	05/07	06/06	\$100,000	Wheat Genetics Resource Center at Kansas State University. [Gill]
USDA Spec. Grant	05/07	06/06	\$264,000	Wheat Genetics Resource Center at Kansas State University. [Gill]
KS Wheat Comm.	06/07	07/06	\$100,000	Wheat Genetics Resource Center at Kansas State University. [Gill]
USDA Spec. Grant	06/07	07/06	\$272,863	Wheat Genetics Resource Center at Kansas State University. [Gill]
USDA	06/09	08/08	\$1,000,000	IWGSC: a physical map and sample sequencing of the homoeologous group-3 chromosomes of wheat. [Gill, Li]
USDA-DOE	06/08	08/07	\$700,000	Genetic dissection of the lignocellulosic pathway of wheat to improve biomass quality of grasses as a feedstock for biofuels. [Gill, Li]
KS Wheat Comm.	07/06	08/06	\$100,000	Wheat Genetics Resource Center at Kansas State University. [Gill]
USDA Spec. Grant	07/07	08/06	\$238,905	Wheat Genetic & Genomic Resources Center at Kansas State University. [Gill]
USDA Spec. Grant	08/07	09/06	\$238,905	Wheat Genetic & Genomic Resources Center at Kansas State University. [Gill]
USDA	08/08	10/08	\$1,000,000	IWGSC: Integrated Genetic and physical map of chromosome 3A of

USDA	08/01	11/01	\$250,450	wheat. Chromosome engineering of stem rust resistance in wheat. [Gill]
NSF	08/08	11/08	\$1,149,139	TRPGR: Physical mapping of the wheat D genome. [Gill]
USDA Spec. Grant	09/07	10/07	\$223,749	Wheat Genetic & Genomic Resources Center at Kansas State University. [Gill]
KS Wheat Comm.	09/07	10/06	\$100,000	Wheat Genetics Resource Center at Kansas State University. [Gill]
KS Biosci. Auth.	09/07	11/10	\$1,000,000	Trait discovery pipeline for wheat. [Gill]
KS Wheat Comm.	10/07	11/06	\$100,000	Wheat Genetics Resource Center at Kansas State University. [Gill]
KS Wheat Comm.	10/07	11/06	\$40,000	Using new sequencing technologies for discovery agronomically important genes for the Kansas wheat industry. [Gill]
USDA Spec. Grant	10/08	11/08	\$930,668	Wheat Genetic & Genomic Resources Center at Kansas State University. [Gill]
USDA-Wheat/Barley Scab Initiative	10/06	13/07	\$90,000	Alien chromosome engineering for scab resistance. [Gill]
Monsanto Beachell- Borlaug	09/08	13/01	\$187,167	Methodology for efficient mapping of alien introgression for adult-plant resistance to leaf rust and other agronomic traits in wheat- <i>Aegilops tauschii</i> hybrids. [Gill]
KS Wheat Comm.	12/06	13/07	\$100,000	Wheat Genetics Resource Center at Kansas State University. [Gill]
Heartland Plant Innovations	11/10	12/12	\$300,000	Wheat trait pipeline.
University of Saskatchewan	11/06	14/06	\$150,000	Wheat genome sequencing.
King Abdulaziz	11/06	14/12	\$550,000	Wheat genomics.
NSF	12/07	13/06	\$14,000	WGRC/NSF/I-UCRC Industry/University Cooperative Research Center planning grant.
NSF/I-UCRC	13/07	18/06	\$2,950,500	NSF/I-UCRC Industry/University Cooperative Research Center (PI)

USDA	14/05	18/05	\$78,051	New sources of resistance to FHB and DON
KS Wheat Comm.	17/07	18/06	\$41,200	Chromosome Engineering and Development of Wheat Germplasm Resistant to BYDV
KS Wheat Comm.	17/07	18/06	\$35,000	New Technology for Rapid Molecular Mapping and Development of Yellow Rust Resistance in Wheat