

P. Stephen Baenziger
Department of Agronomy
University of Nebraska
Lincoln, Nebraska 68583-0915
e-mail: pbaenziger1@unl.edu

PRESENT ACADEMIC RANK: Nebraska Wheat Growers Presidential Chair and Professor

Education

B.A. *magna cum laude*, 1972, Harvard University (Biochemical Sciences)
M.S. 1975, Purdue University (Plant Breeding and Genetics)
Ph.D. 1975, Purdue University (Plant Breeding and Genetics)

Employment

Interim Associate Dean for Graduate Education, College of Agriculture and Natural Resources,
2017-2019
Interim-Head, Department of Agronomy, University of Nebraska, 1993-1996
Nebraska Wheat Growers Presidential Chair and Professor, 2011-Present
Eugene W. Price Professor, University of Nebraska, 1993-2011
Professor, University of Nebraska, 1991-1993.
Associate Professor, University of Nebraska, 1986-1991.
Research Manager, Monsanto Agricultural Products Company, St. Louis,
Missouri, 1983-1986.
Research Geneticist, United States Department of Agriculture, Beltsville,
Maryland, 1976-1983.

Teaching Interests

Is the primary instructor for Agronomy 815A, and B, two of three modules that comprise Introduction to Plant Breeding. These modules are the first graduate level courses that many plant breeding students will take and may be the only course that students in collateral fields will take. The instructor is keenly interested in using web based technology to teach his course in traditional and nontraditional ways.

Research Interests

Is the primary small grains breeder for Nebraska. Cultivar and germplasm development are the main goals of the program. Developing improved breeding methodology, emphasizing on biotic and abiotic stress tolerance, and the use of biotechnology are two of his basic research goals.

Honors and Awards

Prem Paul Innovator of the Year, 2017
Lifetime Achievement Award, National Association of Plant Breeders, 2015
Fellow, Daugherty Water for Food Institute, 2014
Genetics and Plant Breeding Award, National Council of Commercial Plant Breeders, 2013
Fellow, Great Plains Center, University of Nebraska, 2013
Wheat Quality Council "Best of Show" (awarded for the highest quality winter wheat entered into the 2013 Wheat Quality Council trials, Kansas City, Missouri) - 2013
2011 U.S. Department of Agriculture (USDA) Secretary's Honor Award for Excellence
2011 Person of the Year Award, Nebraska Wheat Growers Association
Outstanding Research and Creativity Award, University of Nebraska, 2011
Innovator of the Year, University of Nebraska, 2011

Nebraska Agri-business Club, Public Service Award, 2010
Darrell W. Nelson Excellence in Graduate Student Advising Award, 2010
Omtvedt Innovation Award, 2009
Honoree, Nebraska Hall of Agricultural Achievement, 2009
Distinguished Alumnus Award, Maine West High School, 2007
Distinguished Agriculture Alumnus Award, Purdue University, 2002,
Crop Science Research Award, Crop Science Society of America, 2000
Distinguished Service Award, Nebraska Crop Improvement Association, 2000
Agronomic Achievement Award-Crops, American Society of Agronomy, 1997
Elected Member, Nebraska Hall of Agricultural Achievement, 1997
Outstanding Scientist, Sigma Xi, Nebraska Chapter, 1997
Research Award of Merit, Gamma Sigma Delta, 1994
Achievement Award, Nebraska Wheat Growers Association, 1993
Eugene W. Price Distinguished Professor in Biotechnology, 1993
Honorary Professor, Ningxia Academy of Agricultural and Forestry Sciences, 1992
Fellow, American Association for the Advancement of Science, 1991
Fellow, American Society of Agronomy, 1990
Fellow, Crop Science Society of America, 1990
Member, IANR Interdisciplinary Team Research Award, 1989
Crop Science Society of America Young Crop Scientist Award, 1987
Monsanto Management Incentive Awards in 1985 and 1986

Elective Offices

Chair, Hard Winter Wheat Improvement Committee and member of National Wheat Improvement Committee, 2015-2017
Elected member, Agriculture Builders of Nebraska, Inc. 2009- present
Chair, Wheat Genomics Subcommittee, National Wheat Improvement Committee, 2007-2012.
Chair, Past Chair, Plant Breeding Coordinating Committee, 2007 - 2010
Sigma Xi Chapter Secretary, (2004-2006)
President-elect, President, and Past-President of Crop Science Society of America, 2001-2004.
Chair-elect, Chair, and Past Chair, Section O (Agriculture, Food, and Renewable Resources), American Association for the Advancement of Science, 2001-2003
Sigma Xi Chapter President, (1999-2000)
Member, National Wheat Improvement Committee (1995-2001, 2015-2017)
Member-at-Large, Section O, American Association for the Advancement of Science, 1995-1999.
Councilmember-at-Large, American Institute of Biological Sciences (1993-1996)
Secretary-Treasurer, North Central Branch American Society of Agronomy (1989-1992)
Chair-elect and Chair, Division C-7 (biotechnology) of the Crop Society of America (1987-88)

Committee or Other Special Assignments

Co-Chair, Committee on “The Need for Agricultural Innovation to Sustainably Feed the World by 2050: Plant Breeding and Genetics.” Council of Agricultural Science and Technology
Member and Vice Chair, Board of Trustees, International Rice Research Institute, (2010-2015)
Member, Scientific Advisory Board, CIMMYT Wheat Yield Initiative, 2011-2014
Member, Scientific Advisory Board, BREADWHEAT, 2011-2014,

Member of Board, Plain Grains Initiative, 2008-2012
Scientific Advisory Board, Crop Adaptation Genomics, Saskatoon, Canada (2006-2011)
External Program and Management Review, ICARDA (2006)
Chair, Host Genetic Resource Group, US Wheat and Barley Scab Initiative (2005-2007)
Member, NSF Genome Grant Review Panel (2005)
Scientific Advisory Board, Grain Biotech Australia, Pty., Ltd. (2000-2004)
Scientific Advisory Board, 7th & 8th International Wheat Conference (2000-2010)
Member, Committee on Genetically Modified Crops Containing Pesticide Genes,
National Research Council (1999)
Member, National Wheat Improvement Committee and Chair, Great Plains
Region (1998-2001)
CROPS99 Symposium Co-Chair (1997), Coalition for Research on Plant Systems
University of Nebraska Speakers Bureau (1996-1997)
Co-editor (1993) "Intellectual Property Rights: Protection of Plant Materials"
Editor-in-Chief (1992-1997), Crop Science Society of America
Editor (1990-1991), Crop Science
Associate Editor (1987-1989), Crop Science
Reviewing Editor (1994-2001, 2006-present), Cereal Research Communications.
Reviewing Editor (1991-1995), In vitro cellular and developmental biology-plants
Member, National Barley Improvement and Crop Advisory Committees (1982-1983,
1987-1990)
Member, Review Committee for USAID/USDA/CSRS Special Constraints Research
Grants Program (1985-89).
Panelist, USDA/CSRS Competitive Grants Program for Genetics and Molecular
Biology (1988-90)

Consultant: Monsanto, Eli Lilly, Agripro Biosciences Inc., International Atomic Energy Agency/Food and Agriculture Organization (Peru, Ecuador, Morocco, Ethiopia). Grain Biotech Australia.

University:

Vice President and Harlan Vice Chancellor Search Committee, (2009-2010)
Task Force on International Initiatives, University of Nebraska (2005)
Research Council, University of Nebraska (2003-2005, Chair, 2005)
Blue Sky Committee, University of Nebraska (2002-2003)
Life Science Task Force (2000)
President's Task Force for Program Evaluation and Prioritization (2000)
Future Nebraska Taskforce, University of Nebraska (1998- 2000)
Team leader. NN-21 for Food Systems in 2020 (1999)
Steering Committee: Plant Science Initiative (1998-2000)
Advisory Board: Biotechnology Center(1998-2000)
Member: Wheat Satellite Conference (1999)
Chancellor Search Committee (1995)

Publications: Total 284 refereed articles, 32 proceedings and symposia, 16 book chapters, and one book edited. Available at <http://agronomy.unl.edu/Baenziger/Baenziger-March2017-PUBREPT.pdf>

Cultivars Released or Co-Released: Wheat: 41, Barley: 6, triticale: 13.

Publications

Refereed Journal Articles:

1. Baenziger, P. S. and D. V. Glover. 1977. Protein body size and distribution and protein matrix morphology in various endosperm mutants of *Zea mays* L. *Crop Sci.* 17:415-21.
2. Hockett, E. A., P. S. Baenziger, and G. L. Steffens. 1978. A proposal for increased research on chemical induction of fertility in genetic male sterile barley. *Euphytica* 27:109-111.
3. Baenziger, P. S. and D. V. Glover. 1979. Dry matter accumulation in maize hybrids near isogenic for endosperm mutants conditioning protein quality. *Crop Sci.* 19:345-349.
4. Johnson, J. W., P. S. Baenziger, W. T. Yamazaki, and R. T. Smith. 1979. Effects of powdery mildew on yield and quality of isogenic lines of Chancellor wheat. *Crop Sci.* 19:349-352.
5. Baenziger, P. S., R. A. Kilpatrick, and J. G. Moseman. 1979. Reduced root and shoot growth caused by *Erysiphe graminis tritici* in related wheats grown in nutrient solution culture. *Canadian J. of Bot.* 57:1345-1348.
6. Schaeffer, G. W., P. S. Baenziger, and J. W. Worley. 1979. Haploid plant development from anthers and *in vitro* embryo culture of wheat. *Crop Sci.* 19:697-702.
7. Moseman, J. G. and P. S. Baenziger. 1979. Registration of barley composite crosses XXXV, XXXV-A, -B, and -C. *Crop Sci.* 19:750-751.
8. Baenziger, P. S. and D. V. Glover. 1980. Effect of plant population on yield and kernel characteristics of sugary-2 and normal maize. *Crop Sci.* 20:444-447.
9. Johnson, J. W., P. S. Baenziger, and W. T. Yamazaki. 1980. Effect of delayed wheat harvest on soft winter wheat. *Cereal Res. Comm.* 8(3):533- 537.
10. Kilpatrick, R. A., P. S. Baenziger, and J. G. Moseman. 1981. A multiple inoculation technique for evaluating single barley seedlings to three fungus pathogens. *Plant Disease* 65:504-506.
11. Moseman, J. G., P. S. Baenziger, and R. A. Kilpatrick. 1981. Genes conditioning resistance of *Hordeum spontaneum* to *Erysiphe graminis* f. sp. *hordei*. *Crop Sci.* 21:229-232.
12. Baenziger, P. S., J. G. Moseman, and R. A. Kilpatrick. 1981. Registration of barley composite crosses XXXVII-A, -B, and -C. *Crop Sci.* 21:351-352.
13. Bullock, W. P., P. S. Baenziger, G. W. Schaeffer, and P. J. Bottino. 1982. Anther culture of wheat (*Triticum aestivum* L.) F1's and their reciprocal crosses. *Theor. Appl. Genet.* 62:155-159.
14. Baenziger, P. S., D. M. Wesenberg, and R. C. Sicher. 1983. The effects of genes controlling barley leaf and sheath waxes on agronomic performance in irrigated and dryland environments. *Crop Sci.* 23:116-120.
15. Baenziger, P. S., D. J. Sammons, and D. H. Smith, Jr. 1983. Registration of soft red winter

- wheat germplasm segregating for a dominant male sterile gene (Reg. No. GP 219) Crop Sci. 23:1022.
16. Baenziger, P. S., J. G. Moseman, J. R. Tomerlin, D. J. Sammons, and D. H. Smith, Jr. 1983. Registration of winter barley composite cross XL. Crop Sci. 23:1017.
 17. Lazar, M. D., G. W. Schaeffer, and P. S. Baenziger. 1984. Cultivar and cultivar x environment effects on the development of callus and polyhaploid plants from anther cultures of wheat. Theor. Appl. Genet.: 67:273-277.
 18. Kudirka, D. T., G. W. Schaeffer, and P. S. Baenziger. 1983. Cytogenetic characteristics of wheat plants regenerated from anther calli of 'Centurk.' Can. J. Genet. and Cytol.: 25:513-517.
 19. Tomerlin, J. R., M. A. El-Morshidy, J. G. Moseman, P. S. Baenziger, and G. Kimber. 1983. Resistance to *Erysiphe graminis tritici*, *Puccinia recondita tritici*, and *Septoria nodorum* in wild *Triticum* species. Plant Diseases 68:10-13.
 20. Sicker, R. C., D. F. Kremer, W. G. Harris, and P. S. Baenziger. 1984. Photosynthate partitioning in diploid and autotetraploid barley (*Hordeum vulgare*). Physiologia Plantarum: 60:239-246.
 21. Lazar, M. D., G. W. Schaeffer, and P. S. Baenziger. 1984. Combining abilities and heritability of callus formation and plantlet regeneration in wheat (*Triticum aestivum* L.) anther cultures. Theor. Appl. Genet. 68:131-134.
 22. Lowry, J. R., D. J. Sammons, P. S. Moseman, and J. G. Moseman. 1984. Identification and characterization of the gene conditioning powdery mildew resistance in 'Amigo' wheat. Crop Sci. 24:129-132.
 23. Sammons, D. J. and P. S. Baenziger. 1984. Registration of MD 286 wheat germplasm. Crop Sci. 24:391-392.
 24. Baenziger, P. S., R. L. Clements, M. S. McIntosh, W. L. Yamazaki, T. M. Starling, D. J. Sammons, and J. W. Johnson. 1985. Effect of cultivar, environment and their interactions and stability analyses on milling and baking quality of soft red winter wheat. Crop Sci. 25:5-8.
 25. Sammons, D. J., and P. S. Baenziger. 1985. Performance of four winter wheat Triticum cultivars in blended populations. Field Crops Res. 10(2):135-142.
 26. Lazar, M. D., G. W. Schaeffer, and P. S. Baenziger. 1985. The physical environment in relation to high frequency callus and plantlet development in anther cultures of wheat (*Triticum aestivum* L.) e.v. Chris. J. Plant Physiol. 121:103-109.
 27. Sharma, H. C., and P. S. Baenziger. 1986. Production, morphology, and cytogenetic analysis of *Elymus caninus* (*Agropyron caninum*) x *Triticum aestivum* F1 hybrids and backcross-1 derivatives. Theor. Appl. Genet. 71:750-756
 28. Mulchi, C. L., D. J. Sammons, and P. S. Baenziger. 1986. Yield and grain quality responses of soft winter wheat exposed to ozone during anthesis. Agronomy J. 78:593-600.

29. Rocheford, T. R., D. J. Sammons, and P. S. Baenziger. 1988. Planting date in relation to yield and yield components of wheat in the Middle Atlantic region. *Agron. J.* 80:30-34.
30. Baenziger, P. S., J. W. Schmidt, C. J. Peterson, V. A. Johnson, P. J. Mattern, A. F. Dreier, D.V. McVey, and J. H. Hatchett. 1989. Registration of 'Arapahoe' wheat. *Crop Sci.* 29:832.
31. Youssef, S. S., R. Morris, P. S. Baenziger, and C. M. Papa. 1989. Cytogenetic studies of progenies from crosses between 'Centurk' wheat and its doubled haploids derived from anther culture. *Genome* 32:622-628.
32. Baenziger, P. S., D. M. Wesenberg, V. M. Smail, W. L. Alexander, and G. W. Schaeffer. 1989. Agronomic performance of wheat doubled haploid lines derived from cultivars by anther culture. *J. Plant Breed.* 103:101-109.
33. Lazar, M. D., G. W. Schaeffer, and P. S. Baenziger. 1990. The effects of interactions of culture environment with genotype on wheat (*Triticum aestivum*) anther culture response. *Plant Cell Reports* 8:525-529.
34. Kudirka, D. T., G. W. Schaeffer, and P. S. Baenziger. 1990. Stability of ploidy in meristems of plants regenerated from anther calli of wheat (*Triticum aestivum* L. em Thell.) *Genome* 32:1068-1073.
35. Baenziger, P. S. 1990. The challenges of attracting graduate students to plant breeding. *J. Agron. Ed.* 19:205-210.
36. Yuan Han-min, V. D. Keppenne, P. S. Baenziger, T. Berke, and G. H. Liang. 1990. Effect of genotype and medium on wheat (*Triticum aestivum* L.) anther culture. *Plant Cell Tissue and Organ Culture* 21:253-258.
37. Keppenne, V. D., and P. S. Baenziger. 1990. Inheritance of the blue aleurone trait in diverse wheat crosses. *Genome* 33:525-529.
38. Baenziger, P. S., J. W. Schmidt, T. G. Berke, T. S. Payne, and S. M. Dofing. 1990. Registration of 'Perkins' winter barley. *Crop Sci.* 30:1355.
39. Baenziger, P. S. and J. W. Schmidt. 1991. Registration of 'Newcale' winter triticale. *Crop Sci.* 31:489-490.
40. Baenziger, P. S., V. D. Keppenne, M. R. Morris, C. J. Peterson, and P. J. Mattern. 1991. Quantifying gametoclonal variation in wheat doubled haploids. *Cereal Res. Comm.* 19:33-42.
41. Masrizal, R. L. Simonson, and P. S. Baenziger. 1991. Response of different wheat tissues to increasing doses of ethyl methanesulfonate. *Plant Cell, Tissue and Organ Culture* 26:141-146.
42. Rybczynski, J. J., R. L. Simonson, and P. S. Baenziger. 1991. Evidence for microspore embryogenesis in wheat anther culture. *In Vitro Cell. Dev. Biol.* 27P:168-174.
43. Berke, T. G. and P. S. Baenziger. 1992. Portable and desktop computer integrated field book

- and data collection system for agronomists. *Agron. J.* 84:119-121.
44. Baenziger, P. S., J. W. Schmidt, C. J. Peterson, V. A. Johnson, P. J. Mattern, L. A. Nelson, D. V. McVey, and J.H. Hatchett. 1992. Registration of 'Rawhide' wheat. *Crop Sci.* 32:283.
 45. Berke, T. G., P. S. Baenziger, and R. Morris. 1992. Location of wheat quantitative trait loci affecting agronomic performance of seven traits using reciprocal chromosome substitutions. *Crop Sci.*32: 621-627.
 46. Berke, T. G., P. S. Baenziger, and R. Morris. 1992. Locations of wheat quantitative trait loci affecting stability of six traits using reciprocal chromosome substitutions. *Crop Sci.* 32: 628-633.
 47. Peterson, C. J., R. A. Graybosch, P. S. Baenziger, and A. W. Grombacher. 1992. Genotype and environment effects on quality characteristics of hard red winter wheat. *Crop Sci.* 32:98-103.
 48. Sharma, H., J. Varnum, S. Sato, and S. G. Metz. 1992. Analysis of plants derived from wheat tissue culture. *Cereal Res. Comm.* 20:75-79.
 49. Simonson, R. L. and P. S. Baenziger. 1992. The effect of gelling agents on wheat anther and immature embryo culture. *Plant Breeding* 109:211-217.
 50. Dofing, S. M., T. G. Berke, P. S. Baenziger, and C. W. Knight. 1992. Yield and yield component response of barley in subarctic and temperate environments. *Can. J. Plant Sci.* 72:663-669.
 51. Jin, Y., B. J. Steffenson, L. E. Oberthur and P. S. Baenziger. 1992. *Puccinia coronata* on barley. *Plant Dis.* 76:1283.
 52. Yen, Y. and P. S. Baenziger. 1992. A better way to construct recombinant chromosome lines and their controls. *Genome* 35:827-830.
 53. Peterson, C. J., R. A. Graybosch, P. S. Baenziger, D. R. Shelton, W. D. Worrall, L. A. Nelson, D. V. McVey and J. H. Hatchett. 1993. Registration of N86L177 wheat germplasm. *Crop Sci.* 33:350.
 54. Baenziger, P. S., J. W. Schmidt, C. J. Peterson, V. A. Johnson, P. J. Mattern, D. R. Shelton, L. A. Nelson, D. V. McVey, and J.H. Hatchett. 1993. Registration of three wheat germplasm lines. *Crop Sci.*33:884-885..
 55. Yen, Y. and P. S. Baenziger. 1993. Identification, characterization, and comparison of RNA-degrading enzymes of wheat and barley. *Biochem. Genetics* 31: 133-145.
 56. Baenziger, P. S., J. W. Schmidt, C. J. Peterson, D. R. Shelton, D. D. Baltensperger, L. A. Nelson, D. V. McVey, and J. H. Hatchett. 1993. Registration of 'Vista' wheat. *Crop Sci.* 33:1412.
 57. Stroup, W. W., P. S. Baenziger, and D. K. Mulitze. 1994. A comparison of methods for

- removing spatial variation from wheat yield trials. *Crop Sci.* 34:62-66.
58. Yen, Y. and P. S. Baenziger. 1994. Wheat chromosome 2D carries genes controlling the activity of two DNA-degrading enzymes. *Theor. Appl. Genet.* 88:30-32.
 59. Navarro-Alvarez, W., P. S. Baenziger, K. M. Eskridge, D. R. Shelton, V. D. Gustafson, and M. Hugo. 1994. Effect of sugars on wheat anther culture media. *Plant Breed.* 112:53-62.
 60. Navarro-Alvarez, W., P. S. Baenziger, K. M. Eskridge, M. Hugo. and V. D. Gustafson. 1994. Addition of colchicine to wheat anther culture media to increase doubled haploid plant production. *Plant Breed.* 112:192-198.
 61. Budak, N., P. S. Baenziger, and K. M. Eskridge. 1995. Effect of replications on measuring wheat plant height. *Can. J. Plant Sci.* 75:171-173.
 62. Budak, N., P. S. Baenziger, K. M. Eskridge, D. Baltensperger, and B. Moreno-Sevilla. 1995. Plant height response of semidwarf and nonsemidwarf wheats to the environment. *Crop Sci.* 35: 447-451.
 63. Baenziger, P. S., B. Moreno-Sevilla, C. J. Peterson, J. W. Schmidt, D. R. Shelton, D. D. Baltensperger, L. A. Nelson, D. V. McVey, J. E. Watkins, and J. H. Hatchett. 1995. Registration of 'Alliance' wheat. *Crop Sci.* 35:938.
 64. Moreno-Sevilla, B., P. S. Baenziger, C. J. Peterson, R. A. Graybosch, and D. V. McVey. 1995. The 1BL/1RS translocation: agronomic performance of F₃-derived lines from a winter wheat cross. *Crop Sci.* 35:1051-1055.
 65. Wiess, A., N. Budak, and P.S. Baenziger. 1995. Using transpiration to characterize plant height in winter wheat in different environments: A simulation study. *Can. J. Pl. Sci.* 75:583-587.
 66. Gustafson, V. S., P. S. Baenziger, M. S. Wright, W. W. Stroup, and Yang Yen. 1995. Isolated wheat microspore culture. *Plant Cell Tissue and Organ Culture* 42: 207-213.
 67. Gustafson, V. D., P. S. Baenziger, A. Mitra, H. F. Kaeppler, C. M. Papa, and S. M. Kaeppler. 1995. Electroporation of wheat anther culture-derived embryoids. *Cereal Res. Comm.* 23: 207-213.
 68. Moreno-Sevilla, B., P. S. Baenziger, D. R. Shelton, R. A. Graybosch, and C. J. Peterson. 1995. Agronomic performance and end-use quality of 1B vs. 1BL/1RS genotypes derived from winter wheat 'Rawhide'. *Crop Sci.* 35:1607-1612.
 69. Watkins, J. E., S. E. Rutledge, and P. S. Baenziger. 1995. Virulence patterns of *Puccinia recondita* f. sp. *tritici* in Nebraska during 1992 and 1993. *Plant Dis.* 79:467-470.
 70. Worrall, W. D., D. S. Marshall, S. P. Caldwell, C. J. Peterson, P. S. Baenziger, and J. W. Schmidt. 1995. Registration of Siouxland 89 Wheat. *Crop Sci.* 35:1223.
 71. Graybosch, R. A., C. J. Peterson, P. S. Baenziger, and D. R. Shelton. 1995. Environmental

- modification of hard red winter wheat flour protein composition. *J. Cereal Science* 22:45-51.
72. Graybosch, R. A., C. J. Peterson, D. R. Shelton, and P. S. Baenziger. 1996. Genotypic and environmental modification of wheat flour protein composition in relation to end-use quality. *Crop Sci.* 36: 296-300.
 73. Haley, S. D., B. Moreno-Sevilla, P. S. Baenziger, C. J. Peterson, J. W. Schmidt, D. R. Shelton, D. D. Baltensperger, L. A. Nelson, D. V. McVey, J. E. Watkins, J. H. Hatchett, and R. A. Graybosch. 1996. Registration of 'Nekota' Wheat. *Crop Sci.* 36:803-804.
 74. P. S. Baenziger, B. Moreno-Sevilla, C. J. Peterson, J. W. Schmidt, D. R. Shelton, D. D. Baltensperger, L. A. Nelson, D. V. McVey, J. E. Watkins, J. H. Hatchett, and R. A. Graybosch. 1996. Registration of 'Niobrara' Wheat. *Crop Sci.* 36:803.
 75. McNeil, J. E., R. French, G. L. Hein, P. S. Baenziger, and K. M. Eskridge. 1996. Characterization of genetic variability among natural populations of wheat streak mosaic virus. *Phytopathology* 86:1222-1227.
 76. Lookhart, G. L., S. R. Bean, R. Graybosch, O. K. Chung, B. Moreno-Sevilla, and S. Baenziger. 1996. Identification by high-performance capillary electrophoresis of wheat lines containing the 1AL.1RS and the 1LB.1RS translocation. *Cereal Chem.* 73:547-550.
 77. Yang, Y. and P. S. Baenziger. 1996. Chromosomal locations of genes that control major RNA-degrading activities in common wheat (*Triticum aestivum* L.). *Theor. Appl. Gen.* 93: 645-648.
 78. Yang Yen, P. S. Baenziger, R. Bruns, J. Reeder, B. Moreno-Sevilla, and N. Budak. 1997. Agronomic performance of hybrids between cultivars and chromosome substitution lines. *Crop Sci.* 37: 396-399.
 79. Baenziger, P. S., B. Moreno-Sevilla, C. J. Peterson, D. R. Shelton, D. D. Baltensperger, L. A. Nelson, D. V. McVey, J. E. Watkins, J. H. Hatchett, and J. W. Schmidt. 1997. Registration of 'Pronghorn' Wheat. *Crop Sci.* 37: 1006.
 80. Lee, J. H., K. Arumuganathan, Y. Yen, S. Kaeppler, H. Kaeppler, and P. S. Baenziger. 1997. Root tip cell cycle synchronization and metaphase-chromosome isolation suitable for flow sorting in common wheat (*Triticum aestivum* L.) *Genome* 40: 633-638.
 81. Lee, J.-H., Y. Yen, K. Arumuganathan, and P. S. Baenziger. 1997. DNA content of wheat chromosomes at interphase estimated by flow cytometry. *Theor. Appl. Genet.* 95:1300-1304.
 82. Wesenberg, D. M., P. S. Baenziger, D. C. Rasmusson, D. E. Burrup, and B. L. Jones. 1998. Registration of 88Ab536-B barley germplasm. *Crop Sci.* 38:559.
 83. Watkins, J. E., S. S. Rutledge, P.S. Baenziger, and W. Youngquist. 1998. Physiologic specialization of *Puccinia recondita* f. sp. *tritici* in Nebraska during 1995 and 1996. *Plant Dis.* 82:679-682.
 84. P. S. Baenziger, B. Moreno-Sevilla, C. J. Peterson, D. R. Shelton, D. D. Baltensperger, S. D.

- Haley, L. A. Nelson, D. V. McVey, J. E. Watkins, J. H. Hatchett, and J. W. Schmidt. 1998. Registration of 'Windstar' Wheat. *Crop Sci.* 38: 894-895.
85. Espitia-Rangel, E., P. S. Baenziger, R. A. Graybosch, D. R. Shelton, B. Moreno-Sevilla, and C. J. Peterson. 1999. Agronomic Performance and Stability of 1A vs. 1AL.1RS Genotypes Derived from Winter Wheat 'Nekota'. *Crop Sci.*39: 643-648.
86. Espitia-Rangel, E., P. S. Baenziger, D. R. Shelton, R. A. Graybosch, B. Moreno-Sevilla, and C. J. Peterson. 1999. End-use Quality Performance and Stability of 1A vs. 1AL.1RS Genotypes Derived from Winter Wheat 'Nekota'. *Crop Sci.*39: 649-654.
87. Shah, M. M., P. S. Baenziger, Y. Yen, K. S. Gill, B. Moreno-Sevilla, and K. Haliloglu. 1999. Genetic analysis of agronomic traits controlled by wheat chromosome 3A. *Crop Sci* 39: 1016-1021.
88. Shah, M. M., K. S. Gill, P. S. Baenziger, Y. Yen, S. M. Kaeppler, and H. M. Ariyaratne. 1999. Molecular mapping of loci for agronomic traits on chromosome 3A of bread wheat. *Crop Sci.* 39: 1728-1732.
89. Baenziger, P.S., B. Moreno-Sevilla, C. J. Peterson, D. R. Shelton, R. W. Elmore, R. N. Klein, D. D. Baltensperger, L. A. Nelson, D. V. McVey, J. E. Watkins, and J. H. Hatchett. 2000. Registration of 'Culver' Wheat. *Crop Sci.* 40:862-863.
90. Eskridge, K. M., M. M. Shah, P.S. Baenziger and D.A. Travnicsek. 2000. Correcting for classification errors when estimating the number of genes using recombinant inbred chromosome lines. *Crop Sci.* 40:398-403.
91. Shah, M. M., Y. Yen, K. S. Gill, and P. S. Baenziger. 2000. Comparisons of RFLP and PCR-based molecular marker systems to detect polymorphism in wheat. *Euphytica* 114:135-142.
92. Campbell, B. T., P.S. Baenziger, A. Mitra, S. Sato, and T. Clemente. 2000. Inheritance of multiple transgenes in wheat. *Crop Sci.* 40: 1133-1141.
93. Hundera F, K. Arumuganathan, and P.S. Baenziger. 2000. Determination of relative nuclear DNA content of Tef [*Eragrostis tef* (Zucc.) Trotter] using flow cytometry. *J. Genet. and Breed.* 54:165-168.
94. Hundera, F., L. A. Nelson, P.S. Baenziger, E. Bechere, and H. Tefera. 2000. Association of lodging and some morpho-agronomic traits in tef [*Eragrostis tef* (Zucc.) Trotter]. *Tropical Agric.* 77:169-173.
95. Watkins, J. E., J. Schimelfenig, P. S. Baenziger, and K. M. Eskridge. 2001. Virulence of *Puccinia triticina* on wheat in Nebraska during 1997 and 1998. *Plant Disease* 85:159-164.
96. Peterson, C.J., D. R. Shelton, P.S. Baenziger, D. D. Baltensperger, R. A. Graybosch, W. D. Worrall, L.A. Nelson, D. V. McVey, J. E. Watkins, and J. Krall. 2001. Registration of 'Wesley' Wheat. *Crop Sci.* 41:260-261.

97. Baenziger, P. S., B. Moreno-Sevilla, C. J. Peterson, D. R. Shelton, R. W. Elmore, P.T. Nordquist, R. N. Klein, D. D. Baltensperger, L. A. Nelson, D. V. McVey, J. E. Watkins, J. H. Hatchett, and R.A. Graybosch. 2001. Registration of 'Cougar' Wheat. *Crop Sci.* 41: 1360-1361.
98. Baenziger, P. S., B. Moreno-Sevilla, C. J. Peterson, D. R. Shelton, R. W. Elmore, P.T. Nordquist, R. N. Klein, D. D. Baltensperger, L. A. Nelson, D. V. McVey, J. E. Watkins, J. H. Hatchett, and G. Hein. 2001. Registration of 'Millennium' Wheat. *Crop Sci.* 41:1367-1369.
99. Hill-Ambroz, K.L, J. T. Weeks, P.S. Baenziger, and R. A. Graybosch. 2001. Constitutive promoter expression of transgenes in wheat (*Triticum aestivum*). *Cer. Res. Comm.* 29:9-16.
100. Baenziger, P.S., D. R. Shelton, M.J. Shipman, and R. A. Graybosch. 2001. Breeding for end-use quality: reflection on the Nebraska experience. *Euphytica* 119:95-100. (see also proceedings and symposia #21)
101. El-Sherbeny, G. A. R., S. Sato, S. M. Al-Otayk, T. Clemente, and P.S. Baenziger. 2001. Effect of genotype and 2,4-D concentration on callus induction from immature embryos of modern Egyptian wheat cultivars. *Cer. Res. Comm.* 29:305-311.
102. Geleta, B, M. Atak, P.S. Baenziger, L. A. Nelson, D. Baltensperger, K. Eskridge, M. Shipman, and D. Shelton. 2002. Seeding rate and genotype effect on agronomic performance and end-use quality of winter wheat. *Crop Sci.*42: 827-832.
103. Xue, Q., M. Soundararajan, A. Weiss, T. J. Arkebauer, and P. S. Baenziger. 2002. Genotypic variation of gas exchange parameters and carbon isotope discrimination in winter wheat. *J. Plant Physiol.* 159:891-898.
104. Baenziger, P.S. and K. P. Vogel. 2002. Registration of NE422T triticale. *Crop Sci.*43:434-435.
105. P. S. Baenziger, B. Moreno-Sevilla, R. A. Graybosch, J. M. Krall, M. J. Shipman, R. W. Elmore, R. N. Klein, D. D. Baltensperger, L. A. Nelson, D. V. McVey, J. E. Watkins, and J. H. Hatchett. 2002. Registration of 'Wahoo' Wheat. *Crop Sci.*48: 1752-1753.
106. Streck, N. A., A. Weiss, and P. S. Baenziger. 2003. A generalized vernalization response function for winter wheat. *Agron. J.* 95:155-159.
107. Streck, N. Augusto, A. Weiss, Q. Xue, and P. Stephen Baenziger. 2003. Improving predictions of developmental stages in winter wheat: a modified Wang and Engel model. *Agricultural and Forest Meteorology* 115:130-150.
108. Campbell, B. T., P. S. Baenziger, K. S. Gill, K. M. Eskridge, H. Budak, M. Erayman, I. Dweikat, and Y. Yen. 2003. Identification of QTLs and Environmental Interactions Associated with Agronomic Traits on Chromosome 3A of Wheat. *Crop Science* 43:1493-1505.

109. Kumlay, A. M., P. S. Baenziger, K. S. Gill, D. R. Shelton, R. A. Graybosch, A. J. Lukaszewski, and D. M. Wesenberg. 2003. Understanding the effect of rye chromatin in bread wheat. *Crop Science* 43: 1643-1651.
110. Budak, H., P. S. Baenziger, D. R. Shelton, K. M. Eskridge, and M. J. Shipman. 2003. Genetic and environmental effects on end-use quality of diverse hard red winter wheats. *Cereal Chem.* 80:518-523.
111. Haliloglu, K., and P. S. Baenziger. 2003. *Agrobacterium tumefaciens* mediated wheat transformation. *Cereal Res. Comm.*31: 9-16.
112. Erayman, M., P.S. Baenziger, R. French, and G. L. Hein. 2003. Application of mobile nursery method to determine temporal and spatial genetic variability of wheat streak mosaic virus in Nebraska. *Cereal Res. Comm.* 31: 105-112.
113. Streck, N. A., A. Weiss, Q. Xue, P. S. Baenziger. 2003. Incorporating a Chronology Response into the Prediction of Leaf Appearance Rate in Winter Wheat. *Annals of Botany* 92(2):181-190.
114. Graybosch, R. A., Edward Souza, William Berzonsky, P. Stephen Baenziger, and Okkyung Chung. 2003. Functional properties of waxy wheat flours: genotypic and environmental effects. *J. Cereal Sci.* 38:69-76.
115. Budak, H., F. Pedraza, P. B. Cregan, P. S. Baenziger, and I. Dweikat. 2004. Development and utilization of SSRs to estimate the degree of genetic relationships in a collection of pearl millet germplasm. *Crop Sci.* 44:2284-2290.
116. Haliloglu, K., and P. S. Baenziger. 2003. Response of wheat genotypes to *Agrobacterium tumefaciens* mediated transformation. *Cereal Res. Comm.*31: 241-248.
117. Campbell, B.T., P.S. Baenziger, K. M. Eskridge, H. Budak, N.A. Streck, A. Weiss, K.S. Gill, and M. Erayman. 2004. Using environmental covariates to explain genotype x environments and QTL x environment interactions for agronomic traits on chromosome 3A of wheat. *Crop Sci.*44: 620-627.
118. Kuleung, C., P. S. Baenziger and I. Dweikat. 2004. Transferability of SSR markers among wheat, rye, and triticale. *Theor. Appl. Genet.*108:1147-1150.
119. Xue Q, A. Weiss, and P.S. Baenziger. 2004. Predicting phenological development in winter wheat. *Climate Res.* 25:243-252.
120. Graybosch, R. A., N. Ames, P. S. Baenziger, and C. J. Peterson. 2004. Genotypic and environmental modification of Asian noodle quality of hard winter wheat. *Cereal Chem.* 81:19-25.
121. Haliloglu, Kamil and P. Stephen Baenziger. 2003. The effects of age and size of wheat (*Triticum aestivum* L.) anther culture-derived embryos on regeneration of green and albino plantlets. *Israeli J. of Plant Sci.* 51:207-212.

122. Xue, Q., Albert Weiss, Timothy J. Arkebauer and P. Stephen Baenziger. 2004. Influence of soil water status and atmospheric vapor pressure deficit on leaf gas exchange in field-grown winter wheat. *Env. Exp. Bot.* 51: 93-181.
123. Mater, Y., S. Baenziger, K. Gill, R. Graybosch, L. Whitcher, C. Baker, J. Specht, and I. Dweikat. 2004. Linkage mapping of powdery mildew and greenbug resistance genes on recombinant 1RS from 'Amigo' and 'Kavkaz' wheat-rye translocations of chromosome 1RS.1AS. *Genome* 47: 292-298.
124. Kim, K-M., D. E. Lee, H. Song, Y. I. Kuk, J. O., Guh, P. S. Baenziger, and K. Back. 2004. Influence of a selectable marker gene *hpt* on agronomic performance in transgenic rice. *Cereal Res. Comm.* 32: 9-16.
125. Budak, H., P.S. Baenziger, B. Beecher, R.A. Graybosch, B. T. Campbell, M. Shipman, M. Erayman, and K. M. Eskridge. 2004. The effect of introgressions of wheat D-genome chromosomes into "Presto" triticale. *Euphytica* 137: 261-270.
126. Xue, Q., Albert Weiss, and P. Stephen Baenziger. 2004. Predicting leaf appearance in field-grown winter wheat: evaluating linear and non-linear models. *Ecological modeling* 175: 261-270.
127. Kim, W., J. W. Johnson, P. S. Baenziger, A. J. Lukaszewski, and C. S. Gaines. 2004. Agronomic effect of wheat-rye translocation carrying rye chromatin (1R) from different sources. *Crop Sci.*44: 1254-1258.
128. Baenziger, P.S., B. Beecher, R.A. Graybosch, D.D. Baltensperger, L.A. Nelson, J.M. Krall, D.V. McVey, J.E. Watkins, J.H. Hatchett, and Ming-Shun Chen. 2004. Registration of 'Goodstreak' wheat. *Crop Sci* 44: 1473-1474.
129. Baenziger, P.S., B. Beecher, R.A. Graybosch, D.D. Baltensperger, L.A. Nelson, D.V. McVey, J.E. Watkins, J.H. Hatchett, and Ming-Shun Chen. 2004. Registration of 'Harry' wheat. *Crop Sci.*44: 1474-1475.
130. Erayman, Mustafa, Devinder Sandhu, Deepak Sidhu, Muharrem Dilbirligi, P. S. Baenziger, and Kulvinder S. Gill. 2004. Demarcating the gene-rich regions of the wheat genome. *Nucl. Acids. Res.* 32: 3546-3565.
131. Baenziger, P.S., G. S. McMaster, W.W. Wilhelm, A. Weiss, and C.J. Hays. 2004. Putting genes into genetic coefficients. *Field Crop Res.* 90: 133-143.
132. Graybosch, R. A., E. J. Souza, W. A. Berzonsky, P. S. Baenziger, D. V. McVey, and O. K. Chung. 2004. Registration of Nineteen Waxy Spring Wheats. *Crop Sci.* 44:1491-1492.
133. Mahmood, A., P.S. Baenziger, Hikmet Budak, K. S. Gill, and I Dweikat. 2004. The use of microsatellite markers for the detection of genetic similarity among winter bread wheat lines for chromosome 3A. *Theor. Appl. Genet.* 109:1494-1503.
134. Graybosch, R. A., and P.S Baenziger. 2004. Registration of Three Partial Waxy Winter

- Wheats. *Crop Sci.* 44: 2273-2274.
135. Gulsen, O., T. Heng-Moss, R. Shearman, P. S. Baenziger, D. Lee, and F. P. Baxendale. 2004. Buffalograss germplasm resistance to *Blissus Occiduus* (Hyemoptera: Lygaeidae). *J. Econ. Entomol.* 97(6): 2101-2105.
 136. Wicks, G. A., P.T. Nordquist, P.S. Baenziger, R. N. Klein, R. H. Hammons, and J.E. Watkins. 2004. Winter wheat cultivar characteristics affect annual weed suppression. *Weed Tech.* 18:988-998.
 137. Kim, Kyung-moon and P. Stephen Baenziger. 2005. A simple wheat haploid and doubled haploid production system using anther culture. *In Vitro Cell. Devel. Biol. – Plant* 41:22-27.
 138. Fufa, H., P. Stephen Baenziger, B. S. Beecher, R. A. Graybosch, K. M. Eskridge and L. A. Nelson. 2005. Genetic Improvement Trends in Agronomic Performances and End-use Quality Characteristics Among Hard Red Winter Wheat Cultivars in Nebraska. *Euphytica* 144:187-198.
 139. Gulsen, O., R. C. Shearman, K. P. Vogel, D. J. Lee, P. S. Baenziger, T. M. Heng-Moss, and H. Budak. 2005. Nuclear Genome Diversity and Relationships Among Naturally Occurring Buffalograss Genotypes Determined by sequence-related amplified polymorphism. *HortScience* 40: 537-541.
 140. Haliloglu, K., and P.S. Baenziger. 2005. Screening Wheat Genotypes for High Callus Induction and Regeneration Capability from Immature Embryo Cultures. *J. Plant Biochemistry & Biotechnology* 14: 77—82.
 141. Baenziger, P. S., Jean-Luc Jannink, and L.R. Gibson. 2005. Registration of ‘NE426GT’ Winter Triticale. *Crop Sci.* 45: 796-797.
 142. Graybosch, R.A., C.J. Peterson, P.S. Baenziger, L.A. Nelson, B.B. Beecher, D.B. Baltensperger, and J.M. Krall. 2005. Registration of ‘Arrowsmith’ Hard White Winter Wheat *Crop Sci.* 45: 1662-1663.
 143. Graybosch, R.A., C.J. Peterson, P.S. Baenziger, L.A. Nelson, B.B. Beecher, D.B. Baltensperger, and J.M. Krall. 2005. Registration of ‘Antelope’ Hard White Winter Wheat. *Crop Sci.* 45: 1661-1662.
 144. Fufa, H., P.S. Baenziger, B.S. Beecher, I. Dweikat, R. A. Graybosch, and K.M. Eskridge. 2005. Comparison of phenotypic and molecular marker-based classifications of hard red winter wheat cultivars. *Euphytica* 145:133-146.
 145. Dhungana, P., K. M. Eskridge, and A. Weiss, and P.S. Baenziger. 2005. Designing crop technology for a future climate: An example using response surface methodology and the CERES-Wheat model. *Agricultural Systems* 87:63-79.
 146. Baenziger, P.S., B. Beecher, R.A. Graybosch, D.D. Baltensperger, L.A. Nelson, Y. Jin, J.E. Watkins, J.H. Hatchett, Ming-Shun Chen, and Guihua Bai. 2006. Registration of

- 'Hallam' wheat. *Crop Sci.* 46:977-979.
147. Baenziger, P.S., B. Beecher, R.A. Graybosch, D.D. Baltensperger, L.A. Nelson, J. M. Krall, Y. Jin, J.E. Watkins, D. J. Lyon, A. R. Martin, Ming-Shun Chen, and Guihua Bai. 2006. Registration of 'Infinity CL' wheat. *Crop Sci.* 46:975-977.
 148. Hu, Qi, A. Weiss, S. Feng, and P. S. Baenziger. 2006. Earlier winter wheat heading dates and warmer spring in the U.S. Great Plains. *Agric. and Forest Meteorology* 135: 284-290.
 149. Mishra, R., P. S. Baenziger, W. K. Russell, R. A. Graybosch, D. D. Baltensperger, and K. M. Eskridge. 2006. Crossover interaction for grain yield in multi-environmental trials of winter wheat. *Crop Sci.* 46: 1291-1298.
 150. Baenziger, P. S., W. K. Russell, G. L. Graef, and B. T. Campbell. 2006. Improving lives: 50 years of crop breeding, genetics and cytology (C-1). *Crop Sci.*46: 2230-2244.
 151. Dilbirligi, M., M. Erayman, B. T. Campbell, H. S. Randhawa, P. S. Baenziger, I. Dweikat, K. S. Gill. 2006. High-density mapping and comparative analysis of agronomically important traits on wheat chromosome 3A. *Genomics* 88:74-87.
 152. Kuleung, C. P. S. Baenziger, S. D. Kachman, and I. Dweikat. 2006. Evaluating the Genetic Diversity of Triticale Using Wheat and Rye SSR Markers. *Crop Sci.* 46:1692-1700.
 153. Baenziger, P.S. 2006. Plant breeding training in the U.S. *HortScience* 41:40-44.
 154. Dowell, F. E., E. B. Maghirang, R. A. Graybosch, P. S. Baenziger, D. D. Baltensperger, and L.E. Hansen. 2006. An Automated Near-Infrared System for Selecting Individual Kernels Based on Specific Quality Characteristics. *Cereal Chem.* 83:537-543.
 155. Erayman M., Abeyo B. G., Baenziger P. S., Budak H., Eskridge K. M. 2006. Evaluation of seedling characteristics of wheat (*Triticum aestivum* L.) through canonical correlation analysis. *Cereal Research Communications* 34 (4): 1231- 1238.
 156. Divis, L.A., R. A. Graybosch, C.J. Peterson, P. S. Baenziger, G. L. Hein, B.B. Beecher, and T. J. Martin. 2006. Agronomic and quality effects in winter wheat of a gene conditioning resistance to wheat streak mosaic virus. *Euphytica* 152:41-49.
 157. Dhungana, P., K. M. Eskridge, P. S. Baenziger, B. T. Campbell, K. S. Gill, I. Dweikat. 2007. Analysis of genotype-by-environment interaction in wheat using a structural equation model and chromosome substitution lines. *Crop Sci.*47:477-484.
 158. Baenziger, P.S., B. Beecher, R.A. Graybosch, A. M. H. Ibrahim, D.D. Baltensperger, L.A. Nelson, Y. Jin, S. N. Wegulo, J.E. Watkins, J. H. Hatchett, Ming-Shun Chen, and Guihua Bai. 2008. Registration of 'NE01643' wheat. *J. Plant Registrations* 2: 36–42.
 159. Ali, M., J. Rajewski, P. S. Baenziger, K. S. Gill, K. M. Eskridge and I. Dweikat. 2008. Assessment of genetic diversity and relationship among a collection of US sweet

- sorghum germplasm by SSR markers. *Molec. Breeding*. 21:497-509.
160. Ibrahim, A.M.H., S.D. Haley, P. S. Baenziger, Y. Jin, M.A.C. Langham, J. Rickertsen, S. Kalsbeck, R. Little, J. Ingemansen, O.K. Chung, B.W. Seabourn, G.H. Bai, Ming-Shun Chen and D.V. McVey. 2008. Registration of 'Alice' wheat. *Journal of Plant Registrations* 2:110-114.
 161. Ibrahim, A.M.H., S.D. Haley, P. S. Baenziger, Y. Jin, M.A.C. Langham, J. Rickertsen, S. Kalsbeck, R. Little, J. Ingemansen, O.K. Chung, B.W. Seabourn, G.H. Bai, Ming-Shun Chen and D.V. McVey. 2008. Registration of 'Darrell' wheat. *Journal of Plant Registrations* 2:115-119.
 162. Bockus, W. W., Baenziger, P. S., and Ibrahim, A. M. H. 2008. Reaction of Kansas, Nebraska, and South Dakota winter wheat accessions to *Fusarium* head blight (FHB), 2007. *Plant Disease Management Reports* (online). Report 1:CF009. DOI: 10.1094/PDMR02. The American Phytopathological Society, St. Paul, MN.
 163. Mahmood, A. and P. S. Baenziger. 2008. Creation of salt tolerant wheat doubled haploid lines from wheat by maize crosses. *Cereal Res. Comm.* 36:361-371.
 164. Lekgari, L.A., P. S. Baenziger, K. P. Vogel, and D. D. Baltensperger. 2008. Identifying winter forage triticale (X *Triticosecale* Wittmack) strains for the central Great Plains. *Crop Sci.* 48:2040-2048.
 165. Graybosch, R.A., C.J. Peterson, P. S. Baenziger, D. D. Baltensperger, L. A. Nelson, Y. Jin, J. Kolmer, B. Seaborn, R. French, G. Hein, T.J. Martin, B. Beecher, T. Schwarzacher and P. Heslop-Harrison. 2009. Registration of 'Mace' hard red winter wheat. *Journal of Plant Registrations* 3:51-56.
 166. Weiss, A., P. S. Baenziger, G. S. McMaster, W. W. Wilhelm, and Z. I. Al Ajlouni. 2009. Quantifying phenotypic plasticity using genetic information for simulating plant height in winter wheat. *Netherlands Journal of Agricultural Science* 57: 59-64.
 167. Jauhar, P. P., S. S. Xu, and P. S. Baenziger. 2009. Haploidy in cultivated wheats: induction and utility in basic and applied research. *Crop Sci.* 49:737-755.
 168. Wegulo, S. N., J. A. Breathnach, and P.S. Baenziger. 2009. Effect of growth stage on the relationship between tan spot and spot blotch severity and yield in winter wheat. *Crop Protection* 28:696-702.
 169. Baenziger, P. S., R.A. Graybosch, L.A. Nelson, R. N. Klein, D.D. Baltensperger, L. Xu, S. N. Wegulo, J.E. Watkins, Y. Jin, J. Kolmer, J. H. Hatchett, Ming-Shun Chen, and Guihua Bai. 2009. Registration of 'Camelot' wheat. *J. Plant Registrations* 3:256-263.
 170. Sidiqi, J., S. N. Wegulo, P. E. Read, and P.S. Baenziger. 2009. Frequency of resistance to stem rust race TPMK in Afghan wheat cultivars. *Can. J. Plant Pathol.* 31:250-253.
 171. Dowell, F. E., E. B. Maghirang, and P. S. Baenziger. 2009. Automated single-kernel sorting to select for quality traits in wheat breeding programs. *Cereal Chem* 86: 527-533.

172. Mengistu, N. P. S. Baenziger, L.A. Nelson, K.M. Eskridge, R. N. Klein, D. D. Baltensperger, and R. W. Elmore. 2010. Grain yield performance and stability of cultivar blends vs. component cultivars of hard winter wheat in Nebraska. *Crop Sci.* 50: 617-623.
173. Bockus, W. W., Baenziger, P. S., and Berzonsky, W. 2010. Reaction of Kansas, Nebraska, and South Dakota winter wheat accessions to Fusarium head blight (FHB), 2009. *Plant Disease Management Reports* (online). Report 4:CF013. DOI:10.1094/PDMR04 The American Phytopathological Society, St. Paul, MN.
174. Mi, Xiajuan, Kent Eskridge, Dong Wang, P. Stephen Baenziger, B. Todd Campbell, Kulvinder S. Gill, and Ismail Dweikat. 2010. Bayesian mixture structural equation modeling in multiple-trait QTL mapping. *Genetics Research Cambridge.* 92:239-250.
175. Baenziger, P.S., R. A. Graybosch, L. A. Nelson, T. Regassa, R. N. Klein, D. D. Baltensperger, D. K. Santra, A. M. H. Ibrahim, W. Berzonsky, J. M. Krall, L. Xu, S. N. Wegulo, M. L. Bernardis, Y. Jin, J. Kolmer, J. H. Hatchett, Ming-Shun Chen, and Guihua Bai. 2011. Registration of 'NH03614 CL' Wheat. *J. Plant Registrations* 5: 75-80.
176. Liakat Ali, M., P. Stephen Baenziger, Zakaria Al Ajlouni, B. Todd Campbell, K. S. Gill, K. M. Eskridge, A. Mujeeb-Kazi, and Ismail Dweikat. 2011. Mapping QTLs for yield and agronomic traits on wheat chromosome 3A and a comparison of recombinant inbred chromosome line populations. *Crop Sci.* 51:553-566.
177. Mi, X. Kent Eskridge, Dong Wang, P. Stephen Baenziger, B. Todd Campbell, Kulvinder S. Gill, Ismail Dweikat, and James Bovaird. 2010. Regression-Based Multi-Trait QTL Mapping Using a Structural Equation Model. *Statistical Applications in Genetics and Molecular Biology*: Vol. 9 : 1-23.
178. Shiaoman Chao, Jorge Dubcovsky, Jan Dvorak, Ming-Cheng Luo, Stephen P Baenziger, Rustam Matnyazov, Dale R Clark, Luther E Talbert, James A Anderson, Susanne Dreisigacker, Karl Glover, Jianli Chen, Kim Campbell, Phil L Bruckner, Jackie C Rudd, Scott Haley, Brett F Carver, Sid Perry, Mark E Sorrells and Eduard D Akhunov. 2011. Population- and genome-specific patterns of linkage disequilibrium and SNP variation in spring and winter wheat (*Triticum aestivum* L.). *BMC Genomics* 11: 727-744.
179. Wegulo, S. N., M. V. Zwingman, J. A. Breathnach, and P. S. Baenziger. 2011. Economic returns from fungicide application to control foliar fungal diseases in winter wheat. *Crop Prot.* 30:685-692.
180. Graybosch, R. A. C.J. Peterson, P. S. Baenziger, D. D. Baltensperger, L. A. Nelson, Y. Jin. J. Kolmer, B. Seabourn, and B. Beecher. 2011. Registration of 'Anton' hard red winter wheat. *Journal of Plant Registrations* 5:339-344.
181. Mutti, J. S., P. S. Baenziger, R. A. Graybosch, R. French, and K. S. Gill. 2011. Registration of seven winter wheat germplasm lines carrying the Wsm1 gene for wheat streak mosaic virus resistance. *Journal of Plant Registrations* 5:414-417.

182. Bockus, W. W., Baenziger, P. S., and Berzonsky, W. 2011. Reaction of Kansas, Nebraska, and South Dakota winter wheat accessions to Fusarium head blight (FHB), 2010. Plant Disease Management Reports (online). Report 5:CF008. DOI:10.1094/PDMR05 The American Phytopathological Society, St. Paul, MN.
183. Baenziger P.S., I. Salah , R. S. Little, D. K. Santra, T. Regassa, M. Y. Wang. Structuring an efficient organic wheat breeding program. *Sustainability*. 2011; 3(8):1190-1206.
184. Baenziger, P.S., R. A. Graybosch, T. Regassa, L.A. Nelson, R. N. Klein, D. K. Santra, D.D. Baltensperger, L. Xu, S. N. Wegulo, Y. Jin, J. Kolmer, Ming-shun Chen, and Guihua Bai. 2012. . Registration of ‘NE01481’ hard red winter wheat. *Journal of Plant Registrations* 6:49-53.
185. Baenziger, P.S., R. A. Graybosch, T. Regassa, L.A. Nelson, R. N. Klein, D. K. Santra, D.D. Baltensperger, J. M. Krall, S. N. Wegulo, Y. Jin, J. Kolmer, Ming-shun Chen, and Guihua Bai. 2012. . Registration of ‘NI04421’ hard red winter wheat. *Journal of Plant Registrations* 6:54-59.
186. Baenziger, P. S., Ismail Dweikat, Kulvinder Gill, Kent Eskridge, Terry Berke, Maroof Shah, B. Todd Campbell, M.L. Ali, Neway Mengistu, Abid Mahmood, Anyamanee Auvuchanon, Yang Yen, Sachin Rustgi, Benjamin Moreno-Sevilla, A. Mujeeb-Kazi, and M. Rosalind Morris. 2011. Understanding Grain Yield: It is a Journey, Not a Destination. *Czech J. Genet. Plant Breed.* 47: S77-S84. (see also proceedings and symposia #31)
187. Byamukama, E., Tatineni, S., Hein, G. L., Graybosch, R., Baenziger, P. S., French, R., and Wegulo, S. N. 2012. Effects of single and double infections of winter wheat by *Triticum mosaic virus* and *Wheat streak mosaic virus* on yield determinants. *Plant Dis.* 96:859-864.
188. Mengistu, N., P. S. Baenziger, K. M. Eskridge, I. Dweikat, S. N. Wegulo, K. S. Gill, and A. Mujeeb-Kazi. 2012. Validation of QTL for grain yield-related traits on wheat chromosome 3a using recombinant inbred chromosome lines. *Crop Sci.* 52: 1622-1632.
189. Serba, D.D, O. Gulsen, B.G. Abeyo, K.L. Amundsen, D.J. Lee, P.S. Baenziger, T.M. Heng-Moss, K.M. Eskridge and R.C. Shearman. 2012. Turfgrass performance of diploid buffalograss [*Buchloe dactyloides* (Nutt.) Engelm.] half-sib populations. *HortScience* 47(2):185–188.
190. Bockus, W. W., Baenziger, P. S., and Berzonsky, W. 2012. Reaction of Kansas, Nebraska, and South Dakota winter wheat accessions to Fusarium head blight (FHB), 2011. (online) Plant Disease Management Reports 6:CF003. DOI:10.1094/PDMR06. The American Phytopathological Society, St. Paul, MN.
191. Hernandez Nopsa, J. F., P. S. Baenziger, K.. M. Eskridge, K. H. S., Peiris, F. E. Dowell, S. D. Harris, and S. N. Wegulo. 2012. Differential accumulation of deoxynivalenol in two winter wheat cultivars varying in FHB phenotype response under field conditions. *Can. J. Plant Pathol.* 34:380-389.

192. Nilthong, S., R. A. Graybosch, and P.S. Baenziger. 2012. Enzyme activity in wheat breeding lines derived from matings of low polyphenol oxidase parents. *Euphytica* 190: 65-73.
193. Nilthong, S., R. A. Graybosch, and P.S. Baenziger. 2012. Inheritance of grain polyphenol oxidase (PPO) activity in multiple wheat (*Triticum aestivum* L.) genetic backgrounds. *Theor. Appl. Genet.* 125:1705-15..
194. Fisk, S., A. Cuesta-Marcos, L. Cistue, J. Russell, K. Smith, P. Baenziger, Z. Bedo, A. Corey, T. Filichkin, I. Karsai, R. Waugh, and P. Hayes. 2013. FR-H3: A new QTL to assist in the development of fall-sown barley with superior low temperature tolerance. *Theor. Appl. Genet.* 126:335-347.
195. Wang, D., I. S. El-Baysoni, P.S. Baenziger, J. Crossa, K. M. Eskridge, and I. Dweikat. 2012. Prediction of genetic values of quantitative traits with epistatic effects in plant breeding populations. *Heredity* 109: 313-319.
196. Bakhsh, A. N. Mengistu, P. S. Baenziger, I. Dweikat, S. N. Wegulo, D. Rose, G. Bai, and K.M. Eskridge. 2013. Effect of Fusarium head blight (FHB) resistance gene *Fhb1* on agronomic and end-use quality traits of hard red winter wheat. *Crop Sci.* 53:793-801.
197. Placido, D., M. Campbell, J. Jin, X. Cui, G. R. Kruger, P. S. Baenziger, and H. Walia. 2013. Introgression of novel traits from a wild wheat relative improves drought adaptation in wheat (*Triticum aestivum*). *Plant Physiology* 116 :1806-1819..
198. Bockus, W. W., Zhang, G., Fritz, A., Davis, M., Baenziger, P., and Berzonsky, W. 2013. Reaction of Kansas, Nebraska, and South Dakota winter wheat accessions to Fusarium head blight (FHB), 2012. (online) *Plant Disease Management Reports* 7:CF019. DOI:10.1094/PDMR07. The American Phytopathological Society, St. Paul, MN.
199. Cavanagh, C. R., S. Chao, S. Wang, B. E. Huang, S. Stephen, S. Kiani, K. Forrest, C. Sautenac, G. L. Brown-Guedira, A. Akhunova, D. See, G. Bai, M. Pumphrey, L. Tomar, D. Wong, S. Kong, M. Reynolds, M. Lopez da Silva, H. Bockelman, L. Talbert, J. A. Anderson, S. Dreisigacker, S. Baenziger, A. Carter, V. Korzun, P. L. Morrell, J. Dubcovsky, M. K. Morell, M. E. Sorrells, M. J. Hayden, and E. Akhunov. 2013. Genome-wide comparative diversity uncovers multiple targets of selection for improvement in hexaploid wheat landraces and cultivars. *Proc. Natl. Acad. Sci. USA.* 110:8057-8062.
200. El-Siddig, M. A., I. Dweikat, S. Baenziger, A. A. El Hussain, and I. S. El-Baysoni. 2013. Genetic diversity among Sudanese wheat cultivars as revealed by molecular markers. *Middle-East J. Scientific Research* 14:1135-1142.
201. El-Baysoni, I., P.S. Baenziger, I. Dweikat, D. Wang, K. M. Eskridge and M. Saadalla. 2013. Using DArT markers to monitor genetic diversity throughout selection: A case study in Nebraska's winter wheat breeding nurseries. *Crop Science* 53:2363-2373.

202. Rustgi, S., M. N. Shafqat, N. Kumar¹, P. S. Baenziger, M. L. Ali, I. Dweikat, B. T. Campbell, and K.S. Gill. 2013. Genetic dissection of yield and its component traits using high-density composite map of wheat chromosome 3A: bridging gaps between QTLs and underlying genes. PLoS ONE 8(7): e70526. doi:10.1371/journal.pone.0070526.
203. Wortman, S. E., C. A. Francis, T. D. Galusha, C. Hoagland, J. Van Wart, P. S. Baenziger, T. Hoegemeyer, and M. Johnson. 2013. Evaluating Cultivars for Organic Farming: Maize, Soybean, and Wheat Genotype by System Interactions in Eastern Nebraska. *Agroecology and Sustainable Food Systems* 37:915-932.
204. Hernandez Nopsa, J. F., S.N. Wegulo, A. Panthi, H.E. Hallen-Adams, S. D. Harris, and P. S. Baenziger. 2014. Characterization of Nebraska isolates of *Fusarium graminearum* causing head blight of wheat. *Crop Sci.* 54:310-317.
205. Byamukama E., S. N. Wegulo, S. Tatineni, G. L. Hein, R. A. Graybosch , P. S. Baenziger, and R. French. 2014. Quantification of yield loss caused by *Triticum mosaic virus* and *Wheat streak mosaic virus* in winter wheat under field conditions. *Plant Dis.*98:127-133.
206. El Siddig, M.A., S. Baenziger, I. Dweikat, and A. A. El Hussein. 2013. Preliminary Screening for water stress tolerance and genetic diversity in wheat (*Triticum aestivum* L.) cultivars for Sudan. *Journal of Genetic Engineering and Biotechnology* 11:87-94.
207. Graybosch, R., P.S. Baenziger, D. Santra, T. Regassa,, Y. Jin,, J. Kolmer,, S. Wegulo, G., Bai, P.S. Amand, X., Chen, B. Seabourn, F. Dowell, R., Bowden, D.M. Marshall. 2014.. Release of ‘Mattern’ waxy (amylose-free) winter wheat. *J. Plant Registrations* 8:43-48.
208. Hoegemeyer, T., C. Francis, and P.S. Baenziger. 2014. Our Daily Bread: a history of cereals. *Book Review.* *Crop Science* 2014 54:453-454
209. Jin, F., D. Zhang, W. Bockus, P.S. Baenziger, B. Carver, and G. Bai. 2013. Fusarium head blight resistance in U.S. winter wheat cultivars and elite breeding lines. *Crop Science* 53:2006-2013.
210. Hussein, A. A. E., M. A. E. Siddig, A. W. H. Abdalla, I Dweikat, and S. Baenziger. 2014. SSR and SRAP markers-based genetic diversity in sorghum (*Sorghum bicolor* (L.) Moench) accessions of Sudan. *Int. J. Of Plant Breeding and Genetids* 8:89-99.
211. Baenziger, P.S., R. A. Graybosch, T. Regassa, R. N. Klein, G. R. Kruger, D. K. Santra, L. Xu, D. J. Rose, S. N. Wegulo, Y. Jin, J. Kolmer, G. L. Hein, M.-S. Chen, G. Bai, R. L. Bowden and J. Poland. 2014. Registration of ‘NE06545’ (Husker Genetics Brand Freeman) Hard Red Winter Wheat. *J. Plant Registrations* 8:279-284.
212. Panthi, A., H. Hallen-Adams, S. N. Wegulo, J. F., Hernandez Nopsa, and P. S. Baenziger. 2014. Chemotype and aggressiveness of isolates of *Fusarium graminearum* causing head blight of wheat in Nebraska. *Can. J. Plant Pathol.* 36:447-455.

213. Kumssa, T. T., P. S. Baenziger, M. N. Rouse, M Guttieri, I . Dweikat, G. Brown-Guedira, S. Williamson, R. A. Graybosch, S. N. Wegulo, A. J. Lorenz, and J. Poland. 2015. Characterization of stem rust resistance in wheat cultivar ‘Gage’. *Crop Sci.* 55:229-239.
214. Wang, M-Y, P. S. Baenziger, I. S. El-Basyoni, and S. N. Wegulo. 2015. Comparison of Fusarium head blight Resistance in Cytoplasmic Male Sterile, Maintainer and Restorer Lines in Winter Wheat. *Cer. Res. Comm.* 43:374-383.
215. Eckard, J.T. M. Caffè, W. Berzonsky, W. W. Bockus, G. F. Marais, P. S. Baenziger, and J. L. Gonzalez-Hernandez. 2015. Native Fusarium head blight resistance from winter wheat cultivars ‘Lyman’, ‘Overland’, ‘Ernie’, and ‘Freedom’ mapped and pyramided onto ‘Wesley’-Fhb1 backgrounds. *Molec. Breeding* 35:6-16.
216. Guttieri, M. J., P.S. Baenziger, K. Frels, B. Carver, B. Arnall, and B. Waters. 2015. Variation for Grain Mineral Concentration in a Diversity Panel of Current and Historical Great Plains Hard Winter Wheat Germplasm. *Crop Sci.* 55: 1035-1052.
217. Guttieri, M.J., P. S. Baenziger, K. Frels, B. Carver, B. Arnall, S. Wang, E. Akhunov, and B. M. Waters. 2015. Prospects for selecting wheat with increased zinc and decreased cadmium concentration in grain. *Crop Sci.* 55:1712-1728.
218. Liu, Z., El-Basyoni, I., Kariyawasam, G., Zhang, G., Fritz, A., Hansen, J., Marais, F., Friskop, A., Chao, S., Akhunov, E., and Baenziger, P. S. 2015. Evaluation and association mapping of resistance to tan spot and Stagonospora nodorum blotch in adapted winter wheat germplasm. *Plant Dis.* 99:1333-1341.
219. Lopes, M.S., I. El-Baysoni, P. S. Baenziger, S. Singh, C. Royo, K. Ozbek, H. Aktas, E. Ozer, F. Ozdemir, A. Manickavelu, T. Ban, and P. Vikram. 2015. Exploiting genetic diversity from landraces in wheat breeding for adaptation to climate change. *J. Exp. Bot.* 2015 : erv122v1-erv122 doi:10.1093/jxb/erv122
220. Wegulo, S. N., P.S. Baenziger, J. Hernandez Nopsa, W. W. Bockus, and H. Hallen-Adams. 2015. Management of Fusarium head blight of wheat and barley. *Crop Protection.* 73:100-107. <http://dx.doi.org/10.1016/j.cropro.2015.02.025>
221. Bockus, W. W., Zhang, G., Fritz, A., Davis, M., Baenziger, P., and Caffè-Treml, M. 2015. Reaction of Kansas, Nebraska, and South Dakota winter wheat accessions to Fusarium head blight (FHB), 2014. (online) *Plant Disease Management Reports* 9:CF004. DOI:10.1094/PDMR09. The American Phytopathological Society, St. Paul, MN.
222. Fakthongphan, J., R. A. Graybosch; Guihua Bai, P. St. Amand, and P. S. Baenziger. 2016. Identification of markers linked to genes for sprouting tolerance (independent of grain color) in hard white winter wheat (HWWW). *Theor. Appl. Genet* 129: 419-430.
223. Guttieri, M.J., B. W. Seabourn, C. Liu, P. S. Baenziger, and B. M. Waters. 2015. Distribution of cadmium, iron, and zinc in millstreams of hard winter wheat (*Triticum aestivum* L.). *J. Agric. Food Chem.* 63:10681-10688.

224. Fakthongphan, J., R.A. Graybosch and P.S. Baenziger. 2016. Combining Ability for Tolerance to Pre-Harvest Sprouting in Common Wheat (*Triticum aestivum* L.). *Crop Sci.* 56: 1025-1035.
225. Baenziger, P. S., R. A. Graybosch, T. Regassa, R. N. Klein, G. R. Kruger, D. K. Santra, L. Xu, D. J. Rose, S. N. Wegulo, Y. Jin, J. Kolmer, G. L. Hein, M.-S. Chen, G. Bai, R. L. Bowden and J. Poland. 2016. Registration of ‘NE05548’ (Husker Genetics Brand Panhandle) Hard Red Winter Wheat. *J. Plant Registrations* 10: 276-282.
226. Grogan, Sarah M., Josh Anderson, P. Stephen Baenziger, Katherine Frels, Mary J. Guttieri, Scott D. Haley, Ki-Seung Kim, Shuyu Liu, Gregory S. McMaster, Mark Newell, P. V. Vara Prasad, Scott D. Reid, Kyle J. Shroyer, Guorong Zhang, Eduard Akhunov and Patrick F. Byrne. 2016. Phenotypic Plasticity of Winter Wheat Heading Date and Grain Yield across the US Great Plains. *Crop Sci.* 56: 2223-2236.
227. Al-Ajlouni, Zakaria I., Ayed M. Al-Abdallat, Abdul Latief A. Al-Ghzawi, Jamal Y. Ayad, Jamal M. Abu Elenein, Nisreen A. Al-Quraan, and P. Stephen Baenziger. 2016. Impact of pre-anthesis water deficit on yield and yield components in barley (*Hordeum vulgare* L.) plants grown under controlled conditions. *Agronomy* 6(2), 33 doi:[10.3390/agronomy6020033](https://doi.org/10.3390/agronomy6020033)
228. Bai, G., Y. Ge, W. Hussain, P.S. Baenziger, and G. Graef. 2016. A multi-sensor system for high throughput phenotyping in soybean and wheat. *Computers and electronics in agriculture* 128:181-192.
229. Koehler-Cole, K., J. R. Brandle, C.A. Francis, C.A. Shapiro, E.E. Blankenship, and P.S. Baenziger. 2016 Clover green manure productivity and weed suppression in an organic grain rotation. *Renewable Agriculture and Food Systems*, , pp. 1–10. doi: 10.1017/S1742170516000430.
230. Kim, K.-S., J. D. Anderson, M. A Newell, S. M. Grogan, P.F. Byrne, P. S. Baenziger, and T. J. Butler. 2016. Genetic Diversity of Great Plains Hard Winter Wheat Germplasm for Forage. *Crop Sci.* 56: 2297-2305.
231. Bhatta, M., K. M. Eskridge, D. J. Rose, D. K. Santra, P. S. Baenziger, T. Regassa. 2017. Seeding rate, genotype, and top-dressed nitrogen effects on yield and agronomic characteristics of winter wheat. *Crop Science* 57: 951-963
232. Guttieri, M.J., K. Frels, T. Regassa, B. M. Waters, and P.S. Baenziger. 2017. Variation for nitrogen use efficiency in current and historical great plants hard winter wheat. *Euphytica* (doi:[10.1007/s10681-017-1869-5](https://doi.org/10.1007/s10681-017-1869-5))
233. Al-Ajlouni, Z.I., A. Lataif, A. Al-Ghzawil, A. M. Al-Aabdallat, J. Y. Ayad, J. M. A. Elnein, N. A. Al-Quaraan, and P. S. Baenziger. 2017. Effect of pre-anthesis water deficit on plant height, peduncle length, and spike length in 13 barley (*Hordeum vulgare* L.) genotypes. *Jordan J. of Agricultural Science* 13: 163-173.
234. Morgounov, A., A. Abugalieva, K. Akan, B. Akın1, S. Baenziger, M. Bhatta, A. A. Dababat, L. Demir, Y. Dutbayev, M. El Bouhssini, G. Erginbaş-Orakci, M. Kishii8, M.

- Keser, E. Koç, A. Kurespek, A. Mujeeb-Kazi, A. Yorgancılar, F. Özdemir, I. Öztürk, T. Payne, G. Qadimaliyeva, V. Shamanin, K. Subasi, G. Suleymanova, E. Yakişir, and Y. Zelenskiy. 2017. High-yielding winter synthetic hexaploid wheats resistant to multiple diseases and pests. *Plant Genetic Resources: Characterization and Utilization*. 16(3):273-278. (doi:10.1017/S147926211700017X)
235. Council for Agricultural Science and Technology (CAST). 2017. *Plant Breeding and Genetics—A paper in the series on The Need for Agricultural Innovation to Sustainably Feed the World by 2050*. Issue Paper 57. CAST, Ames, Iowa. Writing Committee: P.S. Baenziger and R. H. Mumm (Co-chairs), R. Bernardo, E.C. Brummer, P. Langridge, P. Simon, and S. Smith. CAST Liaison: W. Srnicek
236. Bhatta, M., T. Regassa, D. J. Rose, P. S. Baenziger, K. M. Eskridge, D. K. Santra, and R. Poudel. 2017. Genotype, environments, seeding rate, and top-dressed nitrogen effects on end-use quality of modern Nebraska winter wheat. *J. Sci. Food Agri*. DOI 10.1002/jsfa.8417
237. El-Basyoni, I., M. Saadalla, S. Baenziger, H. Bockelman, and S. Morsy. 2017. Cell membrane stability and association mapping for drought and heat tolerance in a worldwide wheat collection. *Sustainability* 9:1606-1621. doi:10.3390/su9091606
238. Sallam, A., J. Sidiqi, S. Baenziger. 2017. Screening winter wheat lines in Nebraska for the Fhb1 gene using Kompetitive Allele Specific PCR (KASP). *J Plant Genet Breed* 1: e104.
239. Li, G. R. Boontung, C. Powers, V. Belamkar, T. Huang, F. Miao, P.S. Baenziger, and L. Yan. 2017. Genetic basis of the very short life cycle of ‘Apogee’ wheat. *BMC Genomics* 18:838.
240. Hussain, W., P.S. Baenziger, V. Belamkar, M. J. Guttieri, J. P. Venegas, A. Easterly, A. Sallam, and J. Poland. 2017. Genotyping-by-sequencing derived high-density map and its application to QTL mapping of flag leaf traits in bread wheat. *Scientific Reports* 7: DOI:10.1038/s41598-017-16006-z.
241. Frels, K., M. Guttieri, B. Joyce, B. Levitt, P. S. Baenziger. 2018. Evaluating canopy spectral reflectance vegetation indices to estimate nitrogen use traits in hard winter wheat. *Field Crops Res.* 217: 82-92.
242. Navrotskyi, S., P. S. Baenziger, T. Regassa, M. J. Guttieri, and D. J. Rose. 2018. Variation in asparagine concentration in Nebraska wheat. *Cereal Chem.* DOI: 10.1002/cche.10023
243. Bhatta, M., T. Regassa, S. N. Wegulo, and P. S. Baenziger. 2018. Foliar fungicide effects on disease severity, yield, and agronomic characteristics of modern winter wheat genotypes. *Agronomy Journal*. 110. 1-9. 10.2134/agronj2017.07.0383.
244. Eltaher S, A. Sallam, V. Belamkar, H. A. Emara, A. A. Nower, K. F. M. Salem, J. Poland, and P.S. Baenziger. 2018. Genetic Diversity and Population Structure of F3:6

- Nebraska Winter Wheat Genotypes Using Genotyping-By-Sequencing. *Front. Genet.* 9:76.
245. Mourad, A. M.I., A. Sallam, V. Belamkar, S. Wegulo, R. Bowden, Y. Jin, E. Mahdy, B. Bakheit, A. A. El-Wafaa, J. Poland, and P. S. Baenziger. 2018. Genome-Wide Association Study for Identification and Validation of Novel SNP Markers for Sr6 Stem Rust Resistance Gene in Bread Wheat. *Front. Plant Sci.* 9:380. doi: 10.3389/fpls.2018.00380
 246. Montesinos-López, O. A. , P. S. Baenziger, K. M. Eskridge, R. S. Little, E. Martínez-Cruz, E. Franco-Perez, 2018. Analysis of genotype-by-environment interaction in winter wheat growth in organic production system. *Emirates Journal of Food and Agriculture.* 2018. 30(3): 212-223.
 247. Tyrka, M., S. Oleszczuk, J. Rabiza-Swider, H. Wos, M. Wedzony, J. Zimny, A. Ponitka, R. J. Metzger, P. S. Baenziger, and A. J. Lukaszewski. 2018. Populations of Doubled Haploids for Genetic Mapping in Hexaploid Winter Triticale. *Molecular Breeding* 38 (4). <https://doi.org/10.1007/s11032-018-0804-3>.
 248. Elbaysoni, I.S., A. J. Lorenz, M. Guttieri, K. Frels, P.S. Baenziger, J. Poland, E. Akhunov. 2018. A comparison between genotyping-by-sequencing and array-based scoring of SNPs for genomic prediction accuracy in winter wheat. *Plant Science* 270: 123-130
 249. Hussain, W., M. J Guttieri, V. Belamkar, J. Poland, A. Sallam, P. S. Baenziger. 2018. Registration of a Bread Wheat Recombinant Inbred Line Mapping Population Derived from a Cross Between ‘Harry’ and ‘Wesley’. *J. of Plant Registrations* 12:411-414.
 250. Belamkar, V., M. J. Guttieri, W. Hussain, D. Jarquín, I. S.El-basyoni, J. Poland, A. J Lorenz, P. S. Baenziger. 2018. Genomic Selection in Preliminary Yield Trials in a Winter Wheat Breeding Program. *G3: Genes, Genomes, Genetics* 8:2735-2747. <https://doi.org/10.1534/g3.118.200415>
 251. Bhatta, M., A. Morgounov, V. Belamkar, J. Poland, P. S. Baenziger. 2018., Unlocking the novel genetic diversity and population structure of synthetic hexaploid wheat. *BMC Genomics.* **19**, 591.
 252. Bhatta, M., A. Morgounov, V. Belamkar, A. Yorgancılar, and P. S. Baenziger. 2018. Genome-wide association study reveals favorable alleles associated with common bunt resistance in synthetic hexaploid wheat. *Euphytica*, 214(11), 200. <https://doi.org/10.1007/s10681-018-2282-4>
 253. Mourad, A. M. I., A. Sallam, V. Belamkar, E. Mahdy, B. Bakheit, A. A. El-wafaa and P. S. Baenziger. 2018. Genetic architecture of common bunt resistance in winter wheat using genome- wide association study, *BMC Plant Biology*, 18: 280.
 254. Sallam, A. A. Amro, A. EL-Akhdar, T. Kumamaru, and P. S. Baenziger. 2018. Genetic diversity and genetic variation in morpho-physiological traits to improve heat tolerance in Spring barley. *Molecular Biology Reports* 214: 169, doi:10.1007/s11033-018-4410-6.

255. Venegas, J.P., R. A. Graybosch, P. S. Baenziger, G. Bai, P. St. Amand. 2018. Registration of Great Plains–Adapted Reduced Phytate Winter Wheat Germplasm. *Journal of Plant Registrations*. **12**, 405.
256. Venegas, J. P., R. A. Graybosch, B. Wienhold, D. J. Rose, B. M. Waters, P. S. Baenziger, K. Eskridge, G. Bai, and P. St. Amand. 2018. Biofortification of hard red winter wheat by genes conditioning low phytate and high grain protein concentration. *Crop Science* 58:1942–1953. <https://doi.org/10.2135/cropsci2018.03.0175>
257. Yuan, W., J. Li, M. Bhatta, Y. Shi, P. S. Baenziger, and Y. Ge. 2018. Wheat Height Estimation Using LiDAR in Comparison to Ultrasonic Sensor and UAS. *Sensors*, **18**(11), 3731. <https://doi.org/10.3390/s18113731>
258. Bhatta, M., A. Morgounov, V. Belamkar, and P. S. Baenziger. 2018. Genome-Wide Association Study Reveals Novel Genomic Regions for Grain Yield and Yield-Related Traits in Drought-Stressed Synthetic Hexaploid Wheat. *International Journal of Molecular Sciences*. **19**:3011. <https://doi.org/10.3390/ijms19103011>
259. Mourad, A., E. Mahdy, B. R. Bakheit, A. Abo-elwafaa, and P. S. Baenziger. 2018. Effect of common bunt infection on agronomic traits in wheat (*Triticum aestivum* L .). *Journal of Plant Genetics and Breeding*, **2**(1), 1–7.
260. Sallam, A., A. M. I. Mourad, W. Hussain and P. S. Baenziger. 2018. Genetic variation in drought tolerance at seedling stage and grain yield in low rainfall environments in wheat (*Triticum aestivum* L.). *Euphytica*, **214**(9). <https://doi.org/10.1007/s10681-018-2245-9>
261. Graybosch, R. A., P. S. Baenziger, R. L. Bowden, F. L., Dowell, L. Dykes, Y. Jin, Y., D. Marshall, J. Ohm, and M. Caffè-Treml. 2018. Release of 19 Waxy Winter Wheat Germplasm, with Observations on Their Grain Yield Stability. *Journal of Plant Registrations*, **12**(1), 152. <https://doi.org/10.3198/jpr2017.03.0018crg>
262. Kariyawasam, G., W. Hussain, A. Easterly, M. Guttieri, V. Belamkar, J. Poland, J. Venegas, S. Baenziger, F. Marais, J. B. Rasmussen, Z. Liu. 2018. Identification of quantitative trait loci conferring resistance to tan spot in a biparental population derived from two Nebraska hard red winter wheat cultivars. *Molecular Breeding* **38**:140. [<https://link.springer.com/article/10.1007/s11032-018-0901-3>]
263. Bhatta, M., P.S. Baenziger, B.M. Waters, R. Poudel, V. Belamkar, J. Poland, and A. Morgounov. 2018. Genome-wide association study reveals novel genomic regions associated with 10 grain minerals in synthetic hexaploid wheat. *Int. J. Mol. Sci.* **20**, 3237.
264. Asseng, S., P. Martre, F. Ewert, M. F. Dreccer, B. L. Beres, M. Reynolds, H-J Barun, P. Langridge, J. L. Gouis, J. Salse, and P.S. Baenziger. 2019. Model-driven multidisciplinary global research to meet future needs: the case for improving radiation use efficiency to increase yield. *Crop Sci.* **59**:843-849.

265. Liu, C., M. J. Guttieri, B. M. Waters, K. M Eskridge, and P. S. Baenziger. 2019. Selection of bread wheat for low grain cadmium concentration at the seedling stage using hydroponics versus molecular markers. *Crop Sci.* 59: 945-956.
266. Elbasyoni, I.S., A. M. Abdallah, A. Morsy, and S. Baenziger. 2019. Effect of deprivation and excessive application of nitrogen on nitrogen use efficiency-related traits using wheat cultivars, lines, and landraces. *Crop Sci.* 59:994-1006.
267. Bakhsh, A., P. S. Baenziger, G. Bai, and W. Berzonsky. 2019. Agronomic performance of hard red winter wheat lines introgressed with the Fhb1 gene. *Pak. J. Agri. Sci.*, Vol. 56(3), 623-628.
268. Nyine, M., S. Wang, K.Kiani, K. Jordan, S. Liu, P. S. Byrne, S. Haley, S. Baenziger, S.Chao, R. Bowden, E. Akhunov. 2019. Genotype imputation in winter wheat using first-generation haplotype map SNPs improves genome-wide association mapping and genomic prediction of traits. *G3: Genes, Genomes, Genetics* 8:2 doi:10.1534/g3.118.200664
269. Mourad, A.M.I., A. Sallam, V. Belamkar, S. Wegulo, G. Bai, E. Mahdy, B. Bakheit, A. A. El-Wafa, Y. Jin and P. S. Baenziger. 2019. Molecular marker dissection of stem rust resistance in Nebraska bread wheat germplasm. *Sci Rep* 9: 11694 doi:10.1038/s41598-019-47986-9
270. Li, J., A. N. Veeranampalayam-Sivakumar, M. Bhatta, N. D. Garst, H. Stoll, P. S. Baenziger, V. Belamkar, R. Howard, Y. Ge, and Y. Shi. 2019. Principal variable selection to explain grain yield variation in winter wheat from features extracted from UAV imagery. *Plant Methods* 15: 123. <https://doi.org/10.1186/s13007-019-0508-7>
271. Sallam, A., A. M. Alqudah, M.F.A. Dawood, P.S. Baenziger, and A. Börner. 2019. Drought Stress Tolerance in Wheat and Barley: Advances in Physiology, Breeding and Genetics Research. *Int. J. Mol. Sci.* 20, 3137. doi: 10.3390/ijms20133137
272. Maulana, F., K. Kim, J. D. Anderson, M. E. Sorrells, T. J. Butler, S. Liu, P. S. Baenziger, P. F. Byrne, and X. Ma. 2019. Genomic Selection of Forage Quality Traits in Winter Wheat. *Crop Sci.* 59:2473-2483. doi:10.2135/cropsci2018.10.0655
273. Navrotskyi, G. Guo, P.S. Baenziger, L. Xu, and D. Rose. 2019. Impact of wheat bran physical properties and chemical composition on whole grain flour mixing and baking properties. *J.Cereal Sci.* 89: 102790. <https://doi.org/10.1016/j.jcs.2019.102790>
274. Bhatta, M., A. Morgounov, V. Belamkar, S. N Wegulo, A.A. Dababat, G. Erginbas-Orakci, M. El-Bouhssini, P. Gautam, J. Poland, and P.S. Baenziger. 2019. Genome-Wide Association Study for Multiple Biotic Stress Resistance in Synthetic Hexaploid Wheat. *Int. J. or Mol. Sci.* 20: 3667.
275. Graybosch, R. A., P. S. Baenziger, D. Santra, T. Regassa, Y. Jin, J. Kolmer, G. Bai, P. St. Amand, R. Chen, and B. Seabourn. 2019. Registration of ‘Matterhorn’ Hard White Waxy Winter Wheat. *J. Plant Registrations* 13 (2): 207–11.

276. Sallam, A., A. Amro, A. Elakhdar, M. F. A. Dawood, Y. S. Moursi, and P. S. Baenziger. 2019. Marker–Trait Association for Grain Weight of Spring Barley in Well-Watered and Drought Environments. *Molecular Biology Reports* 46:2907-2918.
277. Bhatta, M., V. Shamanin, S. Shepelev, P. S. Baenziger, V. Pozherukova, I. Pototskaya, and A. Morgounov. 2019. Genetic Diversity and Population Structure Analysis of Synthetic and Bread Wheat Accessions in Western Siberia. *J. Appl. Genet.* 60: 283-289.
278. Elbasyoni, I. S, W. M El-Orabey, S. Morsy, P. S. Baenziger, Z. Al Ajlouni, and I. Dweikat. 2019. Evaluation of a Global Spring Wheat Panel for Stripe Rust: Resistance Loci Validation and Novel Resources Identification. *PloS One* 14 (11). doi: 10.1371/journal.pone.0222755
279. Bhatta, M., V. Shamanin, S. Shepelev, P. S. Baenziger, V. Pozherukova, I. Pototskaya, and A. Morgounov. 2019. Marker-Trait Associations for Enhancing Agronomic Performance, Disease Resistance, and Grain Quality in Synthetic and Bread Wheat Accessions in Western Siberia. *G3:Genes, Genomes, and Geentics* 9:4209-4222. <https://doi.org/10.1534/g3.119.400811>.
280. Alqudah, A.M., A. Sallam, P.S. Baenziger, and A. Borner. 2019. GWAS: fast-forwarding gene identification in temperate cereals: barley as a case study-a review. *J. Adv. Research*: in press. <https://doi.org/10.1016/j.jare.2019.10.013>
281. Morgounov, A., Y. Karaduman, B. Akin, S. Aydogan, P. S. Baenziger, M. Bhatta, V. Chudinov, S. Dreisigacker, V. Govindan, S. Güler, C. Guzman, A. Nehe, R. Poudel, D. Rose, E. Gordeeva, V. Shamanin, K. Subasi, Y. Zelenskiy and, E. K. Khlestkina. 2020. Yield and quality in purple-grained wheat isogenic lines. *Agronomy* 10: 86, (1-14).
282. Easterly, A. C., N. Garst, V. Belamkar, A. M. H. Ibrahim, J. C. Rudd, J.-B. Sarazin, and P. S. Baenziger. 2020. Evaluation of Hybrid Wheat (*Triticum aestivum* L.) Yield in Nebraska. *Crop Science*: Accepted. <https://doi.org/10.1002/csc2.20019>.
283. Easterly, A. C., W. Stroup, N. Garst, V. Belamkar, J.-B. Sarazin, T. Moittie, J.-B. Sarazin, A. M. H. Ibrahim, J. C. Rudd, E. Souza, and P. S. Baenziger. 2019. Determining the efficacy of a hybridizing agent in wheat (*Triticum aestivum* L) .*Scientific Reports* 9:1-11.
284. Adhikari, A., A. M. H. Ibrahim, J. C. Rudd, P. S. Baenziger, and J.-B. Sarazin. 2020. Estimation of Heterosis and Combining Abilities of U.S. Winter Wheat Germplasm for Hybrid Development in Texas. *Crop Science*: Accepted

Proceedings and Symposia

1. Moseman, J. G., Baenziger, P. S., and Kilpatrick, R. A. 1980. Relationships of genes conditioning resistance to *Erysiphe graminis* f. sp. *tritici* in wheat. Proc. Fourth Intern. Wheat Conf.: 507-517.
2. Sammons, D. J. and Baenziger, P. S. 1980. The use of wheat blends as a tool in wheat

- production. Proc. Fourth Intern. Wheat Conf.: 389-406.
3. Schaeffer, G. W. and Baenziger, P. S. 1982. Anther culture and pollen plant regeneration in wheat (*Triticum aestivum* L.) en Thell. Proc. Fifth International Congress Plant Tissue and Cell Culture. Tokyo. Plant Tissue Culture. p. 553-556.
 4. Schaeffer, G. W., Lazar, M. D., and Baenziger, P. S. Tissue culture of wheat. 1984 pp. 108-136. In Plant tissue culture: application for crop improvement, Vol. 2. Sharp. P. V. Ammisato, and Y. Yanda. MacMillan Press, New York. 644 pp.
 5. Baenziger, P. S. and Schaeffer, G. W. 1983. Dihaploids via anthers cultures in vitro. In Beltsville Symposia in Agricultural Research VII. Genetic Engineering: Applications to Agriculture. L. D. Owens, Ed. Allanheld, Osmum Publishers, Totlva, New Jersey. pp. 269-284.
 6. Baenziger, P. S., Wesenberg, D. M., Schaeffer, G. W., Galun, E., and Feldman, M. 1983. Variation among anther culture derived doubled haploids of 'Kitt' wheat. In S. Sakamoto, ed. Proc. Sixth Int. Wheat Genetics Sympos. Nov.28 –Dec. 3, 1983, Kyoto, Japan.
 7. Baenziger, P. S., Kudirka, D. T., Schaeffer, G. W., and Lazar, M. D. 1984. The significance of doubled haploid variation. 16th Stadler Genetics Symposium on Gene Manipulation in Plant Improvement. Ed. P. J. Gustafson, Columbia, Missouri. pp. 385-414.
 8. Baenziger, P. S. 1988. Biotechnology and Mutation breeding. In *Semi-dwarf cereal mutants and their use in cross-breeding III*, Proceedings of FAO/IAEA Research Coordination Meeting (Rome, Italy. 1985). IAEA-TECDOC-455:9-13.
 9. Baenziger, P. S., P. N. Mascia, W. E. Palm, R. T. Fraley, M. E. Sorrells. 1986. The impact of molecular genetics on wheat improvement. Proceeding International Wheat Conference (Rabat, Morocco): in press.
 10. Baenziger, P. S., C. J. Peterson, M. R. Morris, and P. J. Mattern. 1989. Quantifying gametoclonal variation in wheat doubled haploids. p. 1-10. In "Current options for cereal improvement: doubled haploids, mutants and heterosis." M. Maluszynski ed. Kluwer Academic Publ., Boston, MA.
 11. Baenziger, P. S. and T. G. Berke. 1991. The past and future of chromosome engineering. p. 90- 98. In G. Kimber (ed.) *Proceedings of the 2nd Internat. Symp. on Chromosome Engineering in Plants*. August 13-15, 1990, Columbia, Missouri.
 12. Baenziger, P. S. and C. J. Peterson. 1992. Genetic variation: Its origin and use for breeding self-pollinated species. p. 69-92. In T. M. Stalker and J. P. Murphy (eds.) *Plant Breeding in the 1990s*. March, 1991, Raleigh, North Carolina.
 13. Simonson, R. L., P. S. Baenziger, and V. D. Gustafson. 1997. Wheat anther culture as affected by various cultural changes and supplements. *J. Appl. Genet.* 381-392.
 14. Baenziger, P. S. and A. Mitra. 1994. Augmenting our current efforts to increase crop yield. In K. G. Cassman (Ed.), *Breaking the Yield Barrier*. pp. 121-126. November 29 - December 4, 1993, International Rice Research Institute, Los Banos, Philippines.

15. Baenziger, P. S., A. Mitra, and C. A. Wildhagen. Biotechnology: Its Role in Our Future. Plant Breeding Symposium. April 25-29, 1994. Ege University, Bornova, Turkey.
16. Baenziger, P. Stephen, William L. Crosby, Kathleen A. Merrigan, and James E. Womack. 1995. Research Policy. pp. 29-36. In J. F. MacDonald (Ed.), *NABC Report 7: Genes for the future: discovery, Ownership, Access*. National Agricultural Biotechnology Council, Ithaca, NY.
17. Baenziger, P. Stephen, and Kulvinder S. Gill. 1996. How biotechnology is changing plant breeding. In K. J. Frey (ed.), *National Plant Breeding Study Workshop: Background Papers*. pp. 1-9. October 1-3, 1996, St. Louis, MO.
18. Peterson, C. J., and R. A. Graybosch, D. R. Shelton, and P. S. Baenziger. 1996. Baking quality of hard red winter wheat: response of cultivars to environments in the Great Plains. Proc. 5th Int. Wheat conf. June 10-14, 1996. Ankara, Turkey. Also published in *Euphytica* 100:157-162, 1998
19. Baenziger, P. S. and D. R. Shelton. 1998. Opportunities in Cereals: Preserving our Future with Biotechnology. p. 12 – 21. In J. W. van der Kamp and R. N. Chibbar (eds.) *Genetic Engineering in Cereals*. Presented at the 16th Meeting of the International Association of Cereal science and Technology meeting jointly with the American Association of Cereal Chemists. Vienna, Austria. May 9 – 12, 1998. ICC Secretariat General, Schwechat, Austria.
20. Khush, G.S. and P.S. Baenziger. 1998. Crop improvement: Emerging trends in rice and wheat. pp. 113-125 In: V.L. Chopra, R.B. Singh and Anupam Verma (eds.) *Crop productivity and sustainability - shaping the future*. Proceedings of 2nd International Crop Science Congress, Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi.
21. Baenziger, P.S., D. R. Shelton, M. J. Shipman, and R. A. Graybosch. 2000. Breeding for end-use quality: reflections on the Nebraska experience. pp. 255-262. In Z. Bedo and L. Lang (eds.), *Wheat in a global environment*. Proceedings of the 6th International Wheat Conference. June 5 – 9, 2000. Budapest, Hungary. Kluwer Academic Publishers, Boston, MA.
22. Landes, R.D., K. M. Eskridge, P. S. Baenziger, D. B. Marx. Are Spatial Models needed with Adequately Blocked Field Trials? 2002. *Applied Statistics in Agriculture, 2001.Proceedings*. p. 234-246. G.A. Milliken, Ed. Kansas State University, Manhattan, KS
23. Baenziger, P. S. 2002. R. G. Hoelt (ed.) *Biotechnology: separating myths from reality*. Illinois fertilizer conference 2002 proceedings. January 21-23, 2002, Peoria, Illinois. pp. 3-12.
24. Dhungana, P., K.M. Eskridge, A. Weiss and P.S. Baenziger. 2003. Simulation and response surface methodology to optimize winter wheat response to global climate change. *Applied Statistics in Agriculture:2002*. p164-178. G.A.Milliken, Ed. Kansas State Univ., Manhattan, Ks.

25. Baenziger, P. Stephen, Mary J. Shipman, Robert A. Graybosch, and Ismail Dweikat. 2003. The integration of biotechnology into plant breeding: promises and products. pp. 111-125. In O.K. Chung and J. L. Steele (ed) Proceedings of the 2nd International Wheat Quality Conference. May 20-24, 2001. Manhattan, Kansas, U.S.A. Grain Industry Alliance, Manhattan, KS.
26. Baenziger, P. Stephen, Ken Russell, Brian Beecher, and Robert A. Graybosch. 2005. Plant Breeding in the 21st Century. pp. 217-232. In R. Sylvester-Bradley and J. Wiseman (ed.) Yields of farmed species: constraints and opportunities in the 21st century. June 14 to 16, 2004. University of Nottingham, Sutton-Bonnington, U.K. Nottingham University Press, Nottingham, U.K.
27. Baenziger, P.S. and S. Al-Otayk. 2007. Plant Breeding in the 21st Century. pp. In Kasem Zaki Ahmed (ed.) Proceedings of the 8th African Crop Science Society Meeting. October 27 to October 31, 2007. El-Minia, Egypt.
28. Baenziger, P.S., R. A. Graybosch, I. Dweikat, S. N. Wegulo, G. L. Hein, and K. M. Eskridge. 2008. Outstanding in their Field: the Phenotype of the 21st Century Plant Breeder. In R. Appels, R. Eastwood, E. Lagudah, P. Langridge, M. Mackay, and L. McIntyre (ed) Proc. 11th International Wheat Genetics Symposium. August 24 -29, 2008. Brisbane, Australia. <http://ses.library.usyd.edu.au/bitstream/2123/3325/1/O51.pdf>
29. Baenziger, P.S., P. W. Simon, and T. C. Wehner. 2009. Educating the next generation of plant breeders: The need and the challenge. In N. Berding (ed). Proc. Of the Joint 14th Australasian Plant Breeding Conference and the 11th SABRAO Congress. Cairns, Australia. August 10-14, 2009.
30. Baenziger, P.S., I Dweikat, and S. N. Wegulo. 2009. The future of plant breeding. In A. Swanepoel (ed.) Proc. of the 9th African Crop Science Society Meeting. Cape Town, Republic of South Africa. September 28 to October 1, 2009.
31. Baenziger, P. S., Ismail Dweikat, Kulvinder Gill, Kent Eskridge, Terry Berke, Maroof Shah, B. Todd Campbell, M.L. Ali, Neway Mengistu, Abid Mahmood, Anyamanee Auvuchanon, Yang Yen, Sachin Rustgi, Benjamin Moreno-Sevilla, A. Mujeeb-Kazi, and M. Rosalind Morris. 2010. Understanding Grain Yield: It is a Journey, Not a Destination. In Proc. 8th International Wheat Conference. St. Petersburg, Russia, June 1-4, 2010.
32. Baenziger, P.S., 2017. Genetically modified organisms: from a breeder's perspective. In: "Engineering Our Food" (Ed. Devin Clark), Harvard College Review of Environment and Society. pp. 10-11.

Book Chapters

1. Baenziger, P. S., J. H. Elgin, J. R. Stavelly, and J. R. Tommerlin. 1984. Breeding for disease resistance. In *Applications of Genetic Engineering to Crop Improvement*. Eds. G. B. Collins and J. G. Petolino. Martinus Nijhoff/Dr. W. Junk Publishers, Boston: pp. 427-452.
2. Kudirka, D. T., G. W. Schaeffer and P. S. Baenziger. 1985. Wheat: Genetic variability

- through anther culture. In: "Biotechnology of Plant Improvement" (Ed. Y.P.S. Bajaj). Springer-Verlag, Berlin-Heidelberg-New York. pp. 239-54.
3. Lucken, K. A. and P. S. Baenziger. 1989. Wheat breeding technology. Chapt. 6 in "Wheat breeding issues related to grain quality." (Ed. J. F. Carter). Report written for Office of Technology Assessment, Congress of the United States, Washington, D. C. 20510-8025. p. 167-203.
 4. Baenziger, P. S., B. Moreno-Sevilla, Y. Yen, L. Oberthur, V. Gustafson. Wheat breeding and genetics. 1994. In C. Arntzen and E. M. Ritter (eds.), *Encyclopedia of Agricultural Science* Vol. 4: 515-523. Academic Press, San Diego, CA, USA.
 5. Yang Yen, R. Morris, and P. S. Baenziger. 1995. Genome analysis in wheats: History and current status. In P. P. Jauhar (ed.) *Methods of genome analysis in plants: their merits and pitfalls*. CRC Press, Boca Raton, U.S.A. pp. 359-373.
 6. Baenziger, P. S. 1996. Reflections on doubled haploids in plant breeding. In S. M. Jain, S. K. Sopory, and R. E. Veileux (eds.) *In vitro* haploid production in higher plants. Vol. 1: Fundamental aspects and methods. Kluwer Academic Publishers, Norwell, MA, U.S.A. pp.35-48.
 7. Baenziger, P.S., A. Mitra, and I. B. Edwards. 2000. Protecting the value in value added crops: intellectual property rights. In C. F. Murphy and D. M. Peterson (eds.) *Designing crops for added value*. American Society of Agronomy, Madison, WI, U.S.A. pp. 239-248.
 8. Baenziger, P.S., K. M. Kim, and K. Haliloglu. 2001. Wheat *in vitro* breeding. In A. P. Bonjean and W. J. Angus (eds), *The World Wheat Book*. Lavoisier Publishing, Paris, France. pp. 979-1000.
 9. Baenziger, P. Stephen, Mustafa Erayman, Hikmet Budak, B. Todd Campbell. 2004 Breeding pure line cultivars. In *Encyclopedia of Plant and Crop Science*, 1st Ed.; Goodman, R.M., Ed.; Marcel Dekker, Inc. New York, New York. pp.196-201.
 10. Garland-Campbell, K.A., J. Dubcovsky, J.A. Anderson, P. S. Baenziger, G. Brown-Guedira, X. Chen, E. Elias, A. Fritz, B. S. Gill, K.S. Gill, S. Haley, K.K. Kidwell, S. F. Kianian, N. Lapitan, H. Ohm, D. Santra, M Sorrells, M. Soria, E. Souza, and L Talbert.. 2007. Bringing genomics to the wheat fields. In G. Acquaah. *Principles of Plant Genetics and Breeding*. Blackwell Publishing, Malden, MA. pp. 477-480.
 11. Baenziger, P.S., and R.M. DePauw. 2009. Wheat breeding: Procedures and strategies. In B.F. Carver (ed.) *Wheat: Science and Trade*. Wiley-Blackwell Publishing, Ames, IA. p. 275-308.
 12. McMaster, G.S., J.W. White, A. Weiss, P.S. Baenziger, W.W. Wilhelm, J.R. Porter, and P.D. Jamieson. 2008. Simulating crop phenological responses to water deficits. In: (L.R. Ahuja, S. A. Anapalli, V.R. Reddy, and Q. Yu, eds.), *Modeling the Response of Crops to Limited Water: Recent Advances in Understanding and Modeling Water Stress Effects on Plant Growth Processes*. Vol. 1 of series: *Advances in Agricultural Systems Modeling. Trans-disciplinary Research, Synthesis, and Applications*. Vol. 1. ASA-SSSA-

CSSA, Madison, WI.

13. Baenziger, P., R. Graybosch, D. Van Sanford, and W. Berzonsky. 2009. Winter and specialty wheat. In: M. J. Carena, ed.. Handbook of Plant Breeding, Vol. 3 Cereals. Springer. p.251-265.
14. Wegulo, S., Stevens, J., Zwingman, M., and Baenziger, P.S. 2012. Yield response to foliar fungicide application in winter wheat. In: D. Dhanasekaran, N. Thajuddin and A. Panneerselvam (Eds.) Fungicides for Plant and Animal Diseases. . InTech. Rijeka, Croatia. Pages 227-244
15. Baenziger, P. S., A. Bakhsh, A. Lorenz, and H. Walia. 2014. Bridging conventional breeding and genomics for a more sustainable wheat production. In R. Tubersoa, A. Graner, and E. Frisson (Eds.) Genomics of Plant Genetic Resources. Vol. 2. Springer pp.185-209.
16. Baenziger, P. Stephen. 2019. Modern plant breeding: a perspective from the public sector in the United States. In R. Zeigler (ed.) Sustaining Global Food Security: The Nexus of Science and Policy. CSIRO Publishing pp. 148-161.

Issue Paper:

1. Council for Agricultural Science and Technology (CAST). 2017. *The Need for Agricultural Innovation to Sustainably Feed the World by 2050: Plant Breeding and Genetics*. Issue Paper 57. CAST, Ames, Iowa. I cochaired the committee for this report.

Books Edited:

1. Baenziger, P. S., R. A. Kleese, and R. F. Barnes (Ed). 1993. *Intellectual Property Rights: Protection of Plant Materials*. CSSA Special Publication #21. 187 pp. Madison, WI.

Books Co-authored:

- 1, National Research Council. 2000. *Genetically Modified Pest-Protected Plants: Science and Regulation*. National Academy Press. Washington, D.C. 263 pp.

Book Reviews:

1. Baenziger, P.S. 2001. Pandora's Picnic Basket by A. McHughen. *Crop Sci.* 41: 1357-1358.

Letters to the Editor:

1. Sorrells, M. E., O. D. Anderson, P. S. Baenziger, R. J. Cook, P. B. Cregan, J. Dubcovsky, J. Dvorak, B. S. Gill, G. E. Hart, P. M. Hayes, E. M Herman, A. Kleinhofs, R. F. Line, C. O. Qualset, and P. E. McGuire. 1997. *Science* 277: 884-885.
2. Baenziger, P. S. 2002. Commercial nature of corn germplasm. *Science* 294: 2291-2292.

Miscellaneous:

Baenziger, P. S., C. J. Peterson, and P. J. Mattern. 1987. Before it's named: The development of a

Nebraska Wheat Variety. Wheat Power Broker:14-15.