

## CURRICULUM VITAE

Scott D. Haley, Ph.D.

### Contact

Soil and Crop Sciences Department  
Colorado State University  
1170 Campus Delivery  
Fort Collins, CO 80523  
(970) 491-6483 (office), -5676 (fax)  
(970) 217-0562 (mobile)  
scott.haley@colostate.edu (e-mail)  
wheat.colostate.edu (web page)

### Education

- 1992 Doctor of Philosophy, Colorado State University, Fort Collins, Colorado  
Agronomy, Specialization in Plant Breeding and Genetics  
*Dissertation:* Selection for chemical desiccation tolerance in winter wheat.
- 1989 Master of Science, Colorado State University, Fort Collins, Colorado  
Agronomy, Specialization in Plant Breeding and Genetics  
*Thesis:* Variation among winter wheats for traits associated with drought resistance.
- 1983 Bachelor of Science, Washington State University, Pullman, Washington  
Biology, Specialization in Botany

### Employment History

- 2005-present Professor, Soil and Crop Sciences Department, Colorado State University
- 1999-2005 Associate Professor, Soil and Crop Sciences Department, Colorado State University
- 1997-1998 Associate Professor, Plant Science Department, South Dakota State University
- 1993-1997 Assistant Professor, Plant Science Department, South Dakota State University
- 1992-1993 Postdoctoral Fellow, Crop and Soil Sciences Department, Michigan State University
- 1986-1991 Graduate Research Assistant, Department of Agronomy, Colorado State University
- 1983-1985 U.S. Peace Corps Volunteer, Ouagadougou, Burkina Faso, West Africa

### Sabbatical Leave Experiences

- 2014 Visiting Scientist, John Innes Centre, Norwich, England (Uauy Lab, 3 months)
- 2014 Visiting Scientist, University of Bologna, Bologna, Italy (Tuberosa Lab, 3 months)
- 2006 Visiting Fellow, Leslie Research Ctr., Toowoomba, QLD, Australia (Sheppard Lab, 6 months)

### Primary Research Accomplishments

- Deployed novel end-use quality traits in hard white wheat varieties Snowmass (2009), Sunshine (2014), Breck (2017), and Snowmass 2.0 (2018) for improved performance in whole-grain flour products (*Ultragrain High Performance™*, <https://www.ardentmills.com/products/ultragrain/hp/>)
- Identified novel, sequence-based DNA markers for resistance to the wheat curl mite, the vector of wheat streak mosaic and other viruses (Dhakal et al., 2018)
- Led development and release of first wheat varieties in the world carrying tolerance to quizalofop herbicide – *CoAXium™ wheat* (Incline AX, LCS Fusion AX, released 2017)

- Characterized genomic selection accuracy for pre-harvest sprouting tolerance (Moore et al., 2017) and winter injury of eastern European winter wheat germplasm resources (Beil et al., 2019)
- Co-leader of development of novel, patented wheat traits conferring tolerance to quizalofop herbicide – *CoAXium™ Wheat* (Ostlie et al., 2015; <http://coaxiumwps.com>)
- Led development and release of first publicly-developed “two-gene” winter wheat variety in the US with tolerance to imazamox herbicide – *Clearfield™ Wheat* (Brawl CL Plus, Haley et al., 2012)
- Identified DNA markers linked with major gene for resistance to wheat streak mosaic virus (Lu et al., 2012) and Russian wheat aphid biotype 2 (Valdez et al., 2011)
- Characterized virulence profile and resistant wheat germplasm sources for first new biotype of Russian wheat aphid identified in North America (Haley et al., 2004; Collins et al., 2005)
- Led development and release of first wheat varieties in the world with tolerance to imazamox herbicide – *Clearfield Wheat* (Above, Haley et al., 2003; AP 502 CL, Lazar et al., 2003)
- Characterized antioxidant and free-radical scavenging properties of wheat flours (Yu et al., 2002a, 2002b, 2003)
- Led development and release of wheat germplasm carrying the first wheat-based source of resistance to wheat streak mosaic virus (Haley et al., 2002)
- Developed a relational database system for reporting and summarization of wheat end-use quality data from the US hard winter wheat regional testing program (Haley et al., 1999)
- Developed novel strategies for identification and utilization of DNA markers linked to major disease resistance genes in common bean (Haley et al., 1994b, 1994c)
- Identified DNA markers for the *I* gene” (Haley et al., 1994a) and *bc-3* gene (Haley et al., 1994b) for resistance to bean common mosaic virus and the *Ur-5* gene (Haley et al., 1993) and *Ur-3* gene (Haley et al., 1994c) for resistance to bean rust

### Patents and Plant Variety Protection Certificates

Ostlie, M., S.D. Haley, P. Westra, V.A. Valdez. Acetyl co-enzyme A carboxylase herbicide resistant plants. U.S. Patent No. 9,578,880. Filing date 01/31/2012, publication date 02/28/2017.

Ostlie, M., P. Westra, S.D. Haley, V.A. Valdez. Herbicide tolerant wheat plants and methods for producing and identifying such plants. U.S. Provisional Patent Application No. 61,642,567. Filing date 05/04/2012, full patent application not submitted.

Breck hard white winter wheat. 2018. Plant Variety Protection Certificate No. 201800521.  
 Incline AX hard red winter wheat. 2018. Plant Variety Protection Certificate No. 201800522.  
 LCS Fusion AX hard red winter wheat. 2018. Plant Variety Protection Certificate No. 201800523.  
 Langin hard red winter wheat. 2017. Plant Variety Protection Certificate No. 201700298.  
 Avery hard red winter wheat. 2016. Plant Variety Protection Certificate No. 201600244.  
 Sunshine hard white winter wheat. 2015. Plant Variety Protection Certificate No. 201500387.  
 Antero hard white winter wheat. 2013. Plant Variety Protection Certificate No. 201300476.  
 Cowboy hard red winter wheat. 2013. Plant Variety Protection Certificate No. 201300477.  
 LCS Mint hard red winter wheat. 2013. Plant Variety Protection Certificate No. 201300481.  
 Brawl CL Plus hard red winter wheat. 2012. Plant Variety Protection Certificate No. 201200434.  
 Byrd hard red winter wheat. 2012. Plant Variety Protection Certificate No. 201200432.  
 Denali hard red winter wheat. 2012. Plant Variety Protection Certificate No. 201200433.  
 Snowmass hard white winter wheat. 2010. Plant Variety Protection Certificate No. 201000432.  
 Thunder CL hard white winter wheat. 2009. Plant Variety Protection Certificate No. 200900400.  
 Bill Brown hard red winter wheat. 2008. Plant Variety Protection Certificate No. 200800327.

Ripper hard red winter wheat. 2007. Plant Variety Protection Certificate No. 200700302.  
 Bond CL hard red winter wheat. 2005. Plant Variety Protection Certificate No. 200500339.  
 Hatcher hard red winter wheat. 2005. Plant Variety Protection Certificate No. 200500340.  
 Protection hard red winter wheat. 2005. Plant Variety Protection Certificate No. 200500338.  
 Ankor hard red winter wheat. 2003. Plant Variety Protection Certificate No. 200300333.  
 AP 502 CL hard red winter wheat. 2003. Plant Variety Protection Certificate No. 200300044.  
 Above hard red winter wheat. 2002. Plant Variety Protection Certificate No. 200200206.  
 Avalanche hard white winter wheat. 2002. Plant Variety Protection Certificate No. 200200205.  
 Harding hard red winter wheat. 2001. Plant Variety Protection Certificate No. 200100268.  
 Tandem hard red winter wheat. 1998. Plant Variety Protection Certificate No. 9800369.  
 Crimson hard red winter wheat. 1998. Plant Variety Protection Certificate No. 9800368.

### Grants Funded (last 10 years)

#### *As Lead PI*

2018-2019 Wheat Breeding, Colorado Wheat Administrative Committee, \$276,000.  
 2018-2019 Development of Improved Quality, High Yield and Disease Resistant Winter Wheat Germplasm, Colorado Wheat Administrative Committee, \$275,900.  
 2015-2018 Multiple Rust-Resistant Wheat, USDA-ARS Cooperative Agreement, \$48,590.  
 2015-2018 Effect of Priaxor on Physiological, Metabolic, and Yield Components of Colorado Wheat, BASF Corporation, \$\$213,164.  
 2015-2017 Wheat Breeding - A Marker-Assisted Selected Program, Colorado Wheat Administrative Committee, \$120,120.  
 2015-2017 Research Associate in the Dept of Soil & Crop Sciences, Colorado Wheat Administrative Committee, \$33,340.  
 2015-2017 Quality Improvement Through the Milling and Baking Quality Evaluation of Colorado Wheat Varieties, Colorado Wheat Administrative Committee, \$53,340.  
 2015-2017 Northwest Colorado Winter Wheat Testing, Colorado Wheat Administrative Committee, \$6,000.  
 2015-2017 Development of Improved Quality, High Yield and Disease Resistant Winter Wheat Germplasm, Colorado Wheat Administrative Committee, \$276,900.  
 2015-2016 TILLING-Derived Human Health Traits, Colorado Wheat Administrative Committee, \$34,000.  
 2014-2015 Wheat Genetics Lab Renovation, Colorado Wheat Administrative Committee, \$35,598.  
 2010-2019 Wheat Breeder Salary, Colorado Wheat Administrative Committee, \$588,084.  
 2010-2015 Wheat Stem Rust Cooperative Research, USDA-ARS Cooperative Agreement, \$135,381.  
 2010-2015 Wheat Breeding - A Marker-Assisted Selected Program, Colorado Wheat Administrative Committee, \$290,300.  
 2010-2015 TILLING: Validation of TILLING - Derived Mutants & Transfer to Wheat Breeding Germplasm, Colorado Wheat Administrative Committee, \$473,412.  
 2010-2015 TILLING-derived Human Health Traits, Colorado Wheat Administrative Committee, \$68,000.  
 2010-2015 Research Associate in the Dept of Soil & Crop Sciences, Colorado Wheat Administrative Committee, \$83,350.  
 2010-2015 Quality Improvement Through the Milling and Baking Quality Evaluation of Colorado Wheat Varieties, Colorado Wheat Administrative Committee, \$133,350.  
 2010-2015 Drought and High Temperature Stress Tolerance Research, Colorado Wheat Administrative Committee, \$317,000.

- 2010-2015 Development of Improved Quality, High Yield and Disease Resistant Hard Red and Hard White Winter Wheat, Colorado Wheat Administrative Committee, \$308,500.
- 2010-2015 Crops Testing Program - Northwest Colorado Winter Wheat Testing, Colorado Wheat Administrative Committee, \$9,500.
- 2009-2011 Training Plant Breeders for the 21st Century, USDA-NRI, \$36,000.
- 2008-2011 Pre-emptive breeding for Russian wheat aphid resistance, Grains Research Development Corporation (Australia), \$126,200.
- 2008-2010 Development of Improved Quality, High Yield and Disease Resistant Hard Red and Hard White Winter Wheat, Colorado Wheat Administrative Committee, \$419,061.

**Total as lead PI – \$4,124,605**

*As Co-PI*

- 2018-2019 Wheat Quality - Aroma and Sensory Traits, Colorado Wheat Administrative Committee, Heuberger PI, \$50,000.
- 2018-2019 CRISPR Cas9 and TILLING, Colorado Wheat Administrative Committee, Pearce PI, \$193,000.
- 2017-2020 Nitrogen-Rich Strip: A Strategy for Profit-Maximizing Winter Wheat Yield and Grain Protein Improvement in Colorado, Colorado Wheat Research Foundation, Trujillo PI, \$45,732.
- 2017-2019 Wheat Scholar in Residence, CSU Office of Vice President for Research, Haley co-PI and Peairs co-PI, \$32,000.
- 2017-2019 Northwest Colorado Winter Wheat Testing, Colorado Wheat Administrative Committee, Keshavarz Afshar PI, \$4,000.
- 2016-2021 Validation, Characterization and Deployment of QTL for Grain Yield Components in Wheat, USDA-NIFA, Pearce PI, \$158,831.
- 2015-2018 Identification of Novel Broadleaf Herbicide Resistance Traits in Wheat, Colorado Wheat Research Foundation, Gaines PI, \$45,000.
- 2015-2017 TILLING: Validation of TILLING-Derived Mutants and Transfer to Wheat Breeding Germplasm, Colorado Wheat Administrative Committee, Pearce PI, \$548,412.
- 2014-2019 Plant breeding for improved water productivity, USDA-NIFA-National Needs Fellowships Grants Program, Byrne PI, \$223,200.
- 2014-2015 High Throughput Phenotyping for Wheat Breeding and Wheat-Related Research, Colorado Wheat Administrative Committee, Byrne PI, \$25,000.
- 2013-2019 Collaborative Research: Wheat Genetics Resource Center: A Public-Private Consortium, Byrne PI, \$306,000.
- 2012-2014 Integrating genomics, breeding, and physiology to improve understanding and prediction of wheat phenology in Colorado, Colorado Wheat Research Foundation, Byrne PI, \$10,000.
- 2011-2016 Improving barley and wheat germplasm for changing environments, USDA-NIFA, Byrne PI, \$608,974.
- 2010-2012 Evaluating CIMMYT Winter and Spring Wheat Germplasm as Sources of Drought Tolerance for the U.S. Great Plains, Texas A&M University, Byrne PI, \$156,796.
- 2009-2012 TILLING - a technology to create novel traits for wheat breeding, Colorado Wheat Research Foundation, Lapitan PI, \$29,034.
- 2008-2010 Miscellaneous Equipment Proposals, Colorado Wheat Research Foundation, Byrne and Moragues PI, \$25,383.
- 2008-2010 Developing ACCase (Select) resistant winter wheat for selective grass control, Colorado Wheat Research Foundation, Westra PI, \$37,500.

- 2008-2010 Continued support for collaborative on-farm testing, Colorado Wheat Research Foundation, Johnson PI, \$6,000.
- 2008-2009 Create durable wheat resistance to Russian wheat aphid, Colorado Wheat Research Foundation, Lapitan PI, \$6,722.

**Total as Co-PI – \$2,777,103**

### Publications Summary

Book chapters: 3	Google Scholar page: <a href="https://col.st/NgqMk">https://col.st/NgqMk</a>
Refereed journal articles: 111	Google Scholar citations: 4774 (2223 since 2013)
Abstracts and proceedings: 131	h-index: 33 (24 since 2013)
Extension/Experiment Station bulletins: 59	i10-index: 69 (43 since 2013)
Non-technical/popular press papers: 40	Last Updated: 12/13/2018

### Classroom Teaching

2012-present	Advanced Plant Breeding – Methods (SOCR720A, 2 cr, alternating fall semesters)
2013-present	Advanced Plant Breeding – Tools (SOCR720B, 2 cr, alternating fall semesters)
2001-2012	Plant Breeding Data Management (SOCR731, 1 cr, alternating fall semesters)
2000-2011	Advanced Plant Breeding (SOCR720, 4 cr, alternating spring semesters)
1999-2007	Plant Breeding (SOCR460, 3 cr, alternating spring semesters)
1999-2003	Plant Breeding Laboratory (SOCR461, 1 cr, alternating spring semesters)
1994-1998	Population/Quantitative Genetics (SDSU PS756, 3 cr, alternating spring semesters)
1996-1998	Crop Breeding Techniques (SDSU PS741, 1 cr, alternating summer semesters)
1991	Principles of Genetics (CSU AG330, 3 cr, summer term)

### Academic Advising and Mentoring

MS theses supervised: 12
PhD dissertations supervised: 8
MS Advisory committees: 10
PhD advisory committees: 12
Post-doctoral scientists supervised: 4
Visiting scientists hosted: 3
Undergraduate Honors Thesis supervised: 2
Undergraduate students formally mentored: 7

### Leadership and Service

#### *Professional Society*

2019-2021	Associate Editor, <i>Journal of Plant Registrations</i> , Crop Science Society of America
2016-2018	Associate Editor, <i>Journal of Plant Registrations</i> , Crop Science Society of America
2007-2009	Technical Editor, <i>Crop Science</i> , Crop Science Society of America
2000-2002	Associate Editor, <i>Crop Science</i> , Crop Science Society of America
1997-1999	Member, Crop Science Teaching Award Committee, Crop Science Society of America
1995-1997	Member, G.O. Mott Scholarship Committee, Crop Science Society of America

#### *Industry*

2018-present	Member, Arcadia Biosciences Scientific Advisory Board
2016-present	Board of Directors, Wheat Quality Council
2014-present	Board of Directors, Borlaug Training Foundation

2002-present	Board of Directors, Colorado Seed Growers Association
1993-present	Member, Hard Winter Wheat Improvement Committee
2008	US Wheat Associates Wheat Quality Improvement Team to Central America
2005	US Wheat Associates Wheat Quality Improvement Team to Asia
2004-2005	Secretary, Hard Winter Wheat Quality Council
2004	Chair, North American Wheat Workers Workshop Organizing Committee
2003-2006	Member, National Karnal Bunt Advisory Committee
2003-2004	Vice-Chair, Hard Winter Wheat Quality Council
2001-2004	Chair, Hard Winter Wheat Improvement Committee
1998-2004	Member, National Wheat Improvement Committee

#### *Department/College*

2018-present	Faculty Adviser, CSU Undergraduate Agronomy Club
2017-present	Member, Department Scholarship Awards Committee
1999-present	Member, Agronomy Foundation Seed Committee
2017-2018	Chair, Crop Breeding and Genetics Professor Search Committee
2014-2016	Member, Soil and Crop Sciences Department Research Panel
2014-2015	Member, Principal Field Agronomist Search Committee
2014-2015	Chair, Crop Functional Genomics Professor Search Committee
2013	Member, Crop Physiology Professor Search Committee
2012	Chair, Soil and Crop Sciences Department Seminar Committee
2012	Chair, Colorado Seed Programs Director Search Committee
2010	Member, Soil and Crop Sciences Department Head Search Committee
2005-2010	Member, Soil and Crop Sciences Department Research Panel
2004-2011	Member, Soil and Crop Sciences Department Graduate Studies Panel
2004-2010	Member, College of Agriculture Web Committee (2004-2010)
2004	Member, Colorado Seed Programs Director Search Committee
2004	Chair, Soil and Crop Sciences Department Seminar Committee
2003-2010	Member, College of Agriculture Computer Technology Information Committee
2003	Member, Soil and Crop Sciences Department Head Search Committee
2002-2004	Member, Soil and Crop Sciences Department Research Panel
2001-2017	Member, WERA-1009 Regional Committee ( <i>Systems to Improve Wheat Quality</i> )
2001-2010	Member, Soil and Crop Sciences Department Internet Committee
2001-2004	Member, Soil and Crop Sciences Department Resident Instruction Panel
1997-1999	Secretary/Treasurer, SDSU Chapter Sigma Xi – The Scientific Research Society
1996-1997	Chair, SDSU Chapter Sigma Xi Program Committee
1996	Member, SDSU Plant Science Extension Forage Specialist Selection Committee
1995-1998	Chair, SDSU Plant Science Department Computer Utilization Committee
1995-1996	Chair, SDSU Chapter Sigma Xi Awards Committee
1995	Coordinator, SDSU Plant Science Department Plant Breeding Group
1994-1995	Member, SDSU Chapter Sigma Xi Awards Committee
1994	Member, SDSU Plant Science Department Space Allocation Committee
1994	Member, SDSU Plant Science Department Computer Utilization Committee

#### *Other*

2002	Ad Hoc Reviewer, USDA-SBIR Grant Program
2002	Ad Hoc Reviewer, USDA-NRI Grant Program
2002	Panel Member, Expert Site Review, USDA-ARS-NPA-USGMPRC (Manhattan KS)
1997	Ad Hoc Reviewer, USDA-SBIR Grant Program

1997 Ad Hoc Reviewer, USDA-NRI Grant Program  
 1996 Ad Hoc Reviewer, USDA-SBIR Grant Program  
 1996 Ad Hoc Reviewer, USDA-NRI Grant Program  
 1995 Ad Hoc Reviewer, USDA-SBIR Grant Program

### Invited Presentations

1999-present Colorado Wheat Field Days (June, annually)  
 1999-present Colorado Seed Growers Association (December, annually)  
 2019 Eastern US Wheat Workers Annual Meeting and Field Day (April)  
 2019 CIMMYT Basic Wheat Improvement Course, Ciudad Obregón, Mexico (March)  
 2019 Wyoming Wheat Growers Annual Meeting (January)  
 2018 MonoGram Network UK – Keynote Speaker, Norwich England (April)  
 2018 Eastern CO Crop Production Conference (December)  
 2018 Plainsman Research Center Annual Meeting (February)  
 2018 CIMMYT Basic Wheat Improvement Course, Ciudad Obregón, Mexico (March)  
 2017 CIMMYT Basic Wheat Improvement Course, Ciudad Obregón, Mexico (March)  
 2017 American Bakers Association (June)  
 2016 Colorado Wheat Winter County Election Meetings (January)  
 2016 Colorado Agricultural Summit (November)  
 2016 Achieving Durable Resistance to Wheat Diseases and Pests Symposium (November)  
 2015 CIMMYT Basic Wheat Improvement Course, Ciudad Obregón, Mexico (March)  
 2014 CSU Crop Clinic (November)  
 2014 CIMMYT Basic Wheat Improvement Course, Ciudad Obregón, Mexico (March)  
 2013 Wheat Quality Council Annual Meeting (February)  
 2013 Colorado Wheat Summit (February)  
 2012 Colorado Ag Classic Drought Panel (December)  
 2011 University of California-Davis Wheat Group (November)  
 2011 Korean Trade Team visit (June)  
 2010 Wyoming Wheat Growers Annual Meeting (December)  
 2010 Phillipine Trade Team visit (August)  
 2010 International Russian Wheat Aphid Workshop, Singapore (April)  
 2010 Department Seminar, Lerida, Spain (May)  
 2010 Cochran Scholars visit (June)  
 2009 Nigerian Trade Team visit (June)  
 2008 International Plant Resistance to Insects Worskhop (February)  
 2008 CSU Soil and Crop Sciences Departmental Seminar (April)  
 2007 Horticulture Departmental seminar (April)  
 2007 CSIRO-Canberra, Australia (October)  
 2006 University of Southern Queensland, Toowoomba, Australia (May)  
 2006 Phillipine Trade Team visit (August)  
 2006 Japanese Trade Team visit (August)  
 2006 Department of Agriculture, Western Australia, Perth (May)  
 2006 Colorado Farm Bureau (July)  
 2006 Camden Rust Lab, Cobbitty, Australia (April)  
 2006 Australian Winter Cereals Molecular Marker Program, Adelaide, Australia (February)  
 2005 CSU BSPM Departmental Seminar (April)  
 2005 Hard White Wheat Summit, Colby KS (January)  
 2005 CSU Extension Forum (September)

2004	Taiwan Trade Team visit (August)
2004	Departmental seminar, Crop and Soil Sciences Dept., Washington State (November)
2004	CSU Soil and Crop Sciences Departmental Seminar (March)
2004	Akron Maximum Economic Yield Group (March)
2003-2016	Colorado Wheat Planting Decision Meetings (August, annually)
2003	Western Society of Crop Science (June)
2002	Kansas State Fall Cereal Conference (August)
2002	Colorado Crop Consultants Association Annual Meeting (February)
2001	Hard Winter Wheat Workers Workshop (February)
2000	Colorado Wheat Winter County Election Meetings (January)
1999	Nebraska Crop Improvement Association Annual Meetings (March)
1997	South Dakota Crop Improvement Association District Meetings (January)
1997	South Dakota Crop and Pest Conference (March)
1995	South Dakota Crop Improvement Association District Meetings (January)
1994-1998	South Dakota Wheat Horizons Conference (December, annually)
1994	South Dakota Seed Trade Association (December)
1993-1998	South Dakota Field Plot Tours (June, annually)

### Awards and Recognitions

2018	CSU Vice President for Research Interdisciplinary Scholarship Team Award
2016	Director-Wheat Research, Outreach, and Education Program, CSU OVPR PRSE
2014	Honored Researcher, Colorado State University Research Foundation
2010	CSU College of Agricultural Sciences Team Award
2010	Fellow, American Society of Agronomy
2010	Fellow, Crop Science Society of America
2010	Honored Researcher, Colorado State University Research Foundation
2010	Annual Miller's Award, Hard Winter Wheat Quality Council
2008	Annual Miller's Award, Hard Winter Wheat Quality Council
2001	Honored Researcher, Colorado State University Research Foundation
1999	Annual Miller's Award, Hard Winter Wheat Quality Council
1991	Gerald O. Mott Scholarship, Crop Science Society of America
1990	Faculty Memorial Award, CSU Department of Agronomy

### Society and Honorary Affiliations

2015	Member, National Association of Plant Breeders
1991	Member, Sigma Xi
1989	Member, Honor Society of Phi Kappa Phi
1987	Member, Honor Society of Agriculture, Gamma Sigma Delta
1986	Member, American Society of Agronomy
1986	Member, Crop Science Society of America



## Complete List of Publications

### *Book Chapters (3)*

Santra, M., H. Wang, S. Seifert, and **S.D. Haley**. 2017. Doubled haploid laboratory protocol for wheat using wheat-maize wide hybridization. In P.L. Bhalla and M.B. Singh (eds.) *Wheat Biotechnology: Methods and Protocols, Methods in Molecular Biology*, Vol. 1679. Springer Science+Business Media LLC. New York.

Berzonsky, W.A., H. Ding, **S.D. Haley**, M.O. Harris, R.J. Lamb, R.I.H. McKenzie, H.W. Ohm, F.L. Patterson, F.B. Peairs, D.R. Porter, R.H. Ratcliffe, and T.G. Shanower. 2002. Breeding wheat for resistance to insects. p. 221-296. In J. Janick (ed.) *Plant Breeding Reviews*, John Wiley & Sons, Hoboken, NJ.

Aggarwal, V.D., **S.D. Haley**, and F.E. Brockman. 1986. Present status of breeding cowpea for resistance to *Striga* at IITA. p. 176-180. In S.J. ter Borg (ed.) *Biology and control of Orobanche*, Wageningen, Netherlands.

### *Refereed Journal Articles (111)*

Sindt, N.M., J.E. Prenni, **S.D. Haley**, A.J. Heuberger, and C.E. Jahn. 2018. Characterization of physiological and genotype differences in short-term effects of mitochondrial inhibition in winter wheat. *Physiologia Plantarum* (submitted)

Beil, C.T., H.K. Manmathan, V.A. Anderson, A. Morgounov, and **S.D. Haley**. 2019. High yielding facultative and winter wheat genotypes from Eastern Europe and Central Asia can increase the genetic diversity of U.S. hard winter wheat. *Crop Sci.* (submitted)

Lavergne, F.D., C.D. Broeckling, K. Brown, D.M. Cockrell, **S.D. Haley**, F. B. Peairs, S. Pearce, L.M. Wolfe, C.E. Jahn, and A.L. Heuberger. 2019. Wheat proteomics and metabolomics responses associated with resistance to the insect pest Wheat Stem Sawfly. *J. Proteome Res.* (submitted)

McMaster, G.S., D.A. Edmunds, R. Marquez, **S.D. Haley**, G.W. Buchleiter, P.F. Byrne, T.R. Green, R.H. Erskine, N.P. Lighthart, H. Kipka, F.A. Fox, L.E. Wagner, J. Tatarko, M. Moragues, and J.C. Ascough II. 2019. Winter wheat phenology simulations improve when adding responses to water stress. *Agron. J.* (in press)

Cockrell, D.M., T.L. Randolph, C.B. Walker, R. Sitz, **S.D. Haley**, and F.B. Peairs. 2019. Yield response of wheat lines carrying the *Dn4* and *Dn7* resistance genes to Russian wheat aphid biotype RWA2 (Hemiptera: Aphididae). *Southwest. Entomol.* (in press)

Beil, C.T., V.A. Anderson, A. Morgounov, and **S.D. Haley**. 2019. Genomic selection for winter survival ability among a diverse collection of facultative and winter wheat genotypes. *Mol. Breed.* (in press)

Nyine, M., S. Wang, K. Kiani, K. Jordan, S. Liu, P. Byrne, **S.D. Haley**, P.S. Baenziger, S. Chao, R. Bowden, and E. Akhunov. 2018. 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)* g3.200664.2018. doi: 10.1534/g3.118.200664.

Dhakai, S., C.-T. Tan, V. Anderson, H. Yu, M.P. Fuentealba, J.C. Rudd, **S.D. Haley**, Q. Xue, A.M.H. Ibrahim, L. Garza, R.N. Devkota, and S. Liu. 2018. Mapping and KASP marker development for wheat curl mite resistance in 'TAM 112' wheat using linkage and association analysis. *Mol. Breed.* 38:119.

El-Feki, W., P. Byrne, S. Reid, and **S.D. Haley**. 2018. Mapping quantitative trait loci for agronomic traits in winter wheat under different soil moisture levels. *Agronomy* 8-133.

Lavergne, F.D., C.D. Broeckling, D.M. Cockrell, **S.D. Haley**, F.B. Peairs, C.E. Jahn, and A.L. Heuberger. 2018. GC-MS metabolomics to evaluate the composition of plant cuticular waxes for four *Triticum aestivum* cultivars. *Int. J. Mol. Sci.* 19:249.

**Haley, S.D.**, J.J. Johnson, F.B. Peairs, J.A. Stromberger, E.E. Hudson-Arns, S.A. Seifert, V.A. Anderson, J.B. Rudolph, G. Bai, X. Chen, R.L. Bowden, Y. Jin, J.A. Kolmer, M.-S. Chen, and B.W. Seabourn. 2018. Registration of Langin wheat. *J. Plant Reg.* 12:232-236.

- Haley, S.D.**, J.J. Johnson, F.B. Peairs, J.A. Stromberger, E.E. Hudson-Arns, S.A. Seifert, V.A. Anderson, J.B. Rudolph, G. Bai, X. Chen, R.L. Bowden, Y. Jin, J.A. Kolmer, M.-S. Chen, and B.W. Seabourn. 2018. Registration of Avery wheat. *J. Plant Reg.* 12:362–366.
- Awad, W., P.F. Byrne, S.D. Reid, L.H. Comas, and **S.D. Haley**. 2018. Great Plains winter wheat varies for root length and diameter under drought stress. *Agron. J.* 110:226-235.
- Assanga, S.O., M. Fuentealba, G. Zhang, C.-T. Tan, S. Dhakal, J.C. Rudd, A. Ibrahim, Q. Xue, **S.D. Haley**, J. Chen, S. Chao, J. Baker, K. Jessup, and S. Liu. 2017. Mapping of quantitative trait loci for grain yield and its components in a US popular winter wheat TAM 111 using 90K SNPs. *PLoS ONE* 12(12):e0189669.
- Haley, S.D.**, J.J. Johnson, F.B. Peairs, J.A. Stromberger, E.E. Hudson-Arns, S.A. Seifert, V.A. Anderson, G. Bai, X. Chen, R.L. Bowden, Y. Jin, J.A. Kolmer, M.-S. Chen, and B.W. Seabourn. 2017. Registration of 'Sunshine' wheat. *J. Plant Reg.* 11:289-294.
- Moore, J.K., H.K. Manmathan, V.A. Anderson, J.A. Poland, C.F. Morris, and **S.D. Haley**. 2017. Improving genomic prediction for pre-harvest sprouting tolerance in wheat by weighting large-effect quantitative trait loci. *Crop Sci.* 57:1315-1324.
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