

ROBERT M. HUNGER

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Entomology & Plant Pathology
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Education:

- PhD: Plant Pathology, Oregon State University, 1982. Thesis title: Chemical control of hop downy mildew (*Pseudoperonospora humuli*) and tolerance by *Phytophthora* isolates to the systemic fungicide metalaxyl
- MS: Plant Pathology, Colorado State University, 1978. Thesis title: Occurrence, development, and losses associated with silver scurf and black dot on Colorado potatoes
- BS: Plant Pathology, Colorado State University, 1976

Experience:

- Professor, present-1992, Oklahoma State University
 - Present-1995: 70% research; 20% extension; 10% teaching
 - 1995-1982: 90% research; 10% teaching
- Associate Professor, 1992-1987, Oklahoma State University
- Assistant Professor, 1987-1982, Oklahoma State University

Professional and honor societies:

- American Phytopathological Society, present-1976
 - Associate editor for Plant Disease, 2004-1996; reviewed ~13 manuscripts/year
 - APS Collections and Germplasm Committee, 1995-1992
 - APS Committee on Youth Programs, 1990-1986, chairman, 1989
 - APS Genetics Committee, 1986-1983
- Crop Science Society of America, 2002-1992
- Sigma Xi, 1978
- Phi Beta Kappa, 1976
- Phi Eta Sigma, 1973

Research support:

Present-1983. Development of disease resistant wheat and studies of selected wheat pathogens. Oklahoma Agricultural Experiment Station. P.I.; R.M. Hunger. \$1,000-\$10,000 per year plus salary and benefits for a technician

Present-1996. Extension allocation for Oklahoma Cooperative Extension Service activities related to wheat extension pathology; approximately \$2,000 per year

Present-1983. Evaluation and incorporation of disease resistance into wheat lines for use in the Oklahoma State University wheat breeding program. Oklahoma Wheat Research Foundation. P.I.: R.M. Hunger; \$826,690 total over 34 years

Present-2004. Evaluation of foliar fungicides and seed treatments for control of wheat diseases, and germplasm for reaction to wheat diseases. P.I.: R. M. Hunger; \$183,232 total from multiple companies

- 2014-1999. Survey for Karnal bunt infestations in Oklahoma wheat. Oklahoma Wheat Commission. P.I.: R.M. Hunger. \$37,000 total
- 2017-2013. A predictive model to increase adoption of IPM of a Mite-virus disease complex in wheat. Agriculture and Food Research Initiative (AFRI) Management of Arthropod -or Nematodes-vectored Plant Pathogens (A5123). Hein, G., Wegulo, S., et al. \$3,730,635 (share to Hunger - \$0)
- 2017-2014. Warren, J., et al (12 CoPIs; 3 states). On farm soil health management systems demonstration program for the Southern Plains. NRCS Conservation Innovation Grant (CIG) Program. \$872,044 (share to Hunger – \$59,874)
- 2015-2013. Integrated management of mite-vectored virus diseases of wheat. Southern Region IPM Grants Program. Rush, C.M., E. Bynum, F. Workneh, K. Ledbetter, J. Price, **B. Hunger**, T. Royer, and B. McCornack, \$170,000 (share to Hunger \$20,000)
- 2014-2010. A reduced risk unified IPM program for winter wheat in the Central and Southern Plains. CSREES. Giles, K.L., J. Bradshaw, F.B. Peairs, J. Armstrong, G. Puterka, F. Epplin, T.A. Royer, N.C. Elliott, A.E. Knutson, R.M. Hunger, R.J. Whitworth, M. Cheng, B.P. McCornack, and G. Michals. \$1,929,861 (share to Hunger - \$0)
- 2012-2006. Plant pathological methodology in disease resistance research. USDA Specific Cooperative Agreement. P.I.s: H.A. Melouk & R.M. Hunger; \$58,000 total
2005. Combining foliar fungicides and variety resistance increases wheat profitability: Fact or folly? Oklahoma State University Integrated Pest Management Program. P.I.s: J. Edwards & R.M. Hunger. \$3,866
2004. Survey for strains of barley yellow dwarf virus in Oklahoma. USDA-APHIS Western Region Certified Agricultural Pest Survey. P.I.s: R.M. Hunger, B. Olson, P. Bolin, & T. Royer. \$10,000
2003. Survey for strains of barley yellow dwarf virus in Oklahoma. USDA-APHIS Western Region Certified Agricultural Pest Survey. P.I.s: R.M. Hunger, T. Royer, P. Pratt, B. Olson, & P. Bolin. \$14,300
2003. Proposal for obtaining real-time PCR capabilities in the Plant Diagnostic Center. Oklahoma Experimental Program to Stimulate Competitive Research. P.I.s: J. Verchot-Lubicz, S. Von Broembsen, & R.M. Hunger. \$25,000
2003. Economic thresholds for aphids on wheat forage. Oklahoma Wheat Research Foundation. P.I.s: K. Giles, T. Royer, R.M. Hunger, & C. Krehbiel. \$4,000
2003. Mechanisms of infection and biocontrol of *Puccinia triticina*, the causal agent of leaf rust in wheat. Oklahoma Wheat Research Foundation. P.I.s: M. Anderson & R.M. Hunger., \$5,500
2002. Economic thresholds for aphids on wheat forage. Oklahoma Integrated Pest Management Grant. P.I.s: K. Giles, N.C. Elliott, R. Gribble, R.M. Hunger, C. Krehbiel, & T.A. Royer. \$5,500
- 2001-1999. Impacts of leaf rust on wheat photosynthesis. OAES Targeted Research Initiative Program. P.I.s: B. Martin & R.M. Hunger. \$22,000

- 2001-1999. Grazing winter wheat for aphid, disease, and weed management. Southern Regional IPM Program. P.I.s: K. Giles, G. Horn, T. Royer, R.M. Hunger, G. Krenzer, T. Peeper, G. Michels, & J. Verchot. \$127,536
2000. Isolation and exploitation of wheat rust spore germination inhibitors from an antifungal bacteria. OAES Targeted Research Initiative Program. P.I.s: M. Anderson & R.M. Hunger. \$15,000
2000. Mechanisms of resistance to wheat soilborne mosaic virus (WSBMV) and disease resistance in Italian winter wheats. OAES International Research Support Program. P.I.s: J. Verchot & R.M. Hunger. \$4,000
2000. Increased genetic variability for the Oklahoma wheat improvement program. OAES International Research Support Program. P.I.s: A. Klatt, B. Carver, & R.M. Hunger. \$4,000
- 2000-1998. Isolation of plant genes induced by volatile emissions from germinating leaf rust spores. OAES Targeted Research Initiative Program. P.I.s: M. Anderson & R.M. Hunger. \$19,500
- 2000-1998. Characterization of resistance to wheat soilborne mosaic virus in *Triticum aestivum* (bread wheat) and *Triticum dicoccoides* (emmer). OAES Targeted Research Initiative Program. P.I.s: J. Verchot & R.M. Hunger. \$27,500
1999. Detection of barley yellow dwarf virus in aphids. OAES Targeted Research Initiative Program. P.I.s: J. Verchot & R.M. Hunger. \$5,000
- 1999-1997. Optimization of control of barley yellow dwarf and aphids. OAES Targeted Research Initiative Program. P.I.s: R.M. Hunger, J. Sherwood, & T. Royer. \$20,000
1998. Survey for Karnal bunt infestations in Oklahoma wheat -1998. USDA-APHIS. P.I.s: R.M. Hunger, L.L. Singleton, & B. Hudgins. \$14,500
1998. Wheat management and improved pesticide application. Oklahoma Department of Agriculture. P.I.s: T. Royer, J. Criswell, R.M. Hunger, G. Krenzer, R. Gribble, & K.M. George. \$24,290
1998. Wheat Production handbook. Oklahoma Wheat Commission. P.I.s: G. Krenzer, T. Royer, & R.M. Hunger. \$20,000
- 1998-1996. Molecular identification and isolation of leaf rust resistance genes in wheat. OAES Targeted Research Initiative Program. P.I.s: M.P. Anderson, & R.M. Hunger. \$19,900
1997. Survey for Karnal bunt infestations in Oklahoma wheat -1997. USDA-APHIS. P.I.s: R.M. Hunger, L.L. Singleton, & B. Hudgins. \$47,500
1996. Survey for Karnal bunt infestations in Oklahoma wheat - 996. USDA/APHIS. P.I.s: R.M. Hunger, L.L. Singleton, & B. Hudgins. \$47,000
1994. Characterization and serological analysis of wheat streak mosaic virus (WSMV) isolates. Oklahoma State University electron microscopy proposal. P.I.s: R.M. Hunger, J.L. Sherwood, & J.R. Montana. Paid for 130 hr of EM time

- 1993-1991. Development of wheat resistant to wheat soilborne mosaic. P.I.s: J.L. Sherwood & R.M. Hunger. Oklahoma Center for the Advancement of Science and Technology - Applied Research Program. \$127,513
- 1992-1988. Pre-doctoral fellowship grant. P.I.: R.M. Hunger. Mid-American International Agricultural Consortium (MIAC). Provided stipend, travel, and supplies for a Ph.D. student from Morocco (≈\$40,000.00 for four years)
1991. Electron microscopy proposal - wheat soilborne mosaic virus. P.I.s: J.L. Sherwood, R.M. Hunger, & R.E. Pennington. Oklahoma State University. \$1,500
1990. Electron microscopy proposal - wheat soilborne mosaic virus. P.I.s: J.L. Sherwood and R.M. Hunger. Oklahoma State University. \$2,000
- 1989-1987. Pre-doctoral fellowship grant. The Samuel Roberts Noble Foundation, Ardmore, OK. P.I.: R.M. Hunger. \$28,000
- Research grants not funded:**
- 2020-2015. A comprehensive system for prevention, early detection, rapid diagnosis, containment, and recovery of wheat pests and diseases. Giles, K., et al (2 directors; 26 CoPIs; multiple states). USDA-AFRI-Food Security Challenge Area. \$7,100,000
2009. Reduced risk unified IPM program for winter wheat in the central and southern plains. K. Giles (main P.I.) \$554,068
2006. Demonstration of jointed goatgrass management with the new OSU clearfield wheat variety 'Centerfield'. DASNR TIP proposal (T. Peeper, PASS, main PI). \$42,950.00
2001. Genomic tools for understanding wheat-fungal interactions. A. Guenzi, R. Zeigler, et al. USDA-CSREES-IFAFS (Plant Genomics section). \$3,372,760
2001. Improving efficiency of production in dual-purpose wheat management systems. E. Krenzer, T. Royer, et al. USDA-CSREES-IFAFS (Farm Efficiency & Profitability section). \$1,649,282
1997. Grazing winter wheat for aphid, disease, and weed management. K. Giles, G. Horn, T. Royer, R.M. Hunger, G. Krenzer, T. Peeper, and G. Cuperus. USDA-CSREES Integrated Pest Management Grants Program. \$94,000
1997. Grazing winter wheat to manage greenbug, bird-cherry oat aphid, and barley yellow dwarf virus. K.L. Giles, R.M. Hunger, G.G. Krenzer, N.C. Elliott, and T.A. Royer. Noble Foundation Competitive Grant Program. \$49,800
1995. Center of Excellence for Wheat Forage/Grain Production. M. Anderson, B.F. Carver, J. Cushman, A. Guenzi, R.M. Hunger, G. Johnson, G. Krenzer, B. Martin, T. Peeper, W. Raun, L. Redmon, E.L. Smith, J. Solie, M. Stone, J. Stiegler, and J.A. Webster. Noble Foundation, Ardmore, OK. \$7,364,000

1993. *Triticum dicoccoides* (emmer) as a source of resistance to diseases of bread wheat. R.M. Hunger, J.L. Sherwood, B.F. Carver, T. Fahima, A. Korol, and E. Nevo. United States - Israel Binational Agricultural Development (BARD) program. \$290,168
1993. Global expansion of OAES wheat improvement programs: Eastern Europe. B.F. Carver and R.M. Hunger. Targeted Research Initiative Program, DASNR, OSU. \$5,500
1993. Incorporation of disease resistance into soft wheat germplasm. R.M. Hunger, B.F. Carver, and J.L. Sherwood. Pioneer Competitive Research Awards Program. \$10,000
1992. Screening of emmer (*Triticum dicoccoides*) for reaction to diseases of wheat in Oklahoma. R.M. Hunger. Targeted Research Initiative Program, DASNR, OSU. Amount requested: \$2,000
1992. Nitrogen-use efficiency of winter wheat under variable moisture and nitrogen rates. B.F. Carver, W.R. Raun, R.M. Hunger, and B.C. Martin. Targeted Research Initiative Program, DASNR, OSU. \$13,400
1992. Native populations of *Triticum dicoccoides* as a source of disease resistance and tolerance to acid soil for winter wheats. R.M. Hunger, B.F. Carver, and J.L. Sherwood. Pioneer Hi-bred International, Inc. \$60,000
1991. Native populations of *Triticum dicoccoides* a source of resistance to wheat soilborne mosaic and tolerance to acid soils. R.M. Hunger, J.L. Sherwood, B.F. Carver, and E. Nevo (Israel). USA-Israel Binational Agricultural Research and Development (BARD) program. \$274,140
1991. Genetics of resistance, acquisition and transmission of a cereal furovirus. J.L. Sherwood, R.M. Hunger, and T.M.A. Wilson (Rutgers University). USDA Competitive Grants. \$423,004
1990. Genetics and mechanisms of resistance to a fungal transmitted plant virus. J.L. Sherwood and R.M. Hunger. USDA Competitive Grants. \$217,406
1989. Development of wheat resistant to wheat soilborne virus. J.L. Sherwood and R.M. Hunger. Oklahoma Center for Advancement of Science and Technology - Applied Research Program. \$190,325
1989. Investigations of the mechanisms of and genetics of resistance to wheat soilborne mosaic virus. J.L. Sherwood and R.M. Hunger. Submitted jointly with CIMMYT to the USDA/OICD. \$60,000
1988. Use of nematicide-fungicide application and genetic resistance in winter wheat production: Strategic and economic considerations. C.C. Russell, L.L. Singleton, R.M. Hunger, E.L. Smith, E. Williams, and F.M. Eplin. State Energy Conservation/EES Program. \$102,500
1987. The influence of tillage systems on plant diseases and nematodes in winter wheat. W. Schuh, C.C. Russell, L.L. Singleton, and R.M. Hunger. USDA Competitive Grants/Southern Region IPM. \$112,392
1986. Purchase and use of high speed centrifuges, scintillation counter, and HPLC. P.I.s: C.L. Bender, J. Fletcher, J.L. Sherwood, A.B. Filonow, and R.M. Hunger. National Science Foundation Biological Instrumentation Program. \$107,604

1986. Application of serological and nucleic acid hybridization technology for evaluation of wheat germplasm for virus resistance. J.L. Sherwood, M.R. Sanborn, and R.M. Hunger. Pioneer Hi-Bred International, Inc. \$19,200
1986. Epidemiology and interaction of selected pests of wheat as affected by production practices. R.M. Hunger, R. Burton, F.J. Gough, E. Krenzer, and W. Schuh. USDA Competitive Grants (Southern Region IPM). \$73,120
1984. Relation of fungicide tolerance to survival strategies of *Rhizoctonia solani* from peanuts. A.B. Filonow and R.M. Hunger. USDA Competitive Grants. \$120,657
1984. Survival strategies of a phytopathogenic fungus related to fungicide tolerance. A.B. Filonow and R.M. Hunger. National Science Foundation. \$114,793
1983. Relation of fungicide tolerance to survival strategies of *Rhizoctonia solani* from peanuts. A.B. Filonow and R.M. Hunger. USDA Competitive Grants. \$114,793

Teaching/mentoring activities:

- Present-2015; Career Skills & Professionalism (ENTO/PLP 5992); Co-instructor with Dr. Maria Ma, Entomology & Plant Pathology (EPP) Department
- Present-2008 (in even years); Host-Plant Resistance (ENTO/PLP 5613); EPP Department
- 2016/15-spring/fall; co-mentored (with Dr. Stephen Marek) Ms. Savannah Martin, in the OSU Freshman Research Scholar Program. The title of Ms. Martin's project was, "Confirming Reaction of Hard Red Winter Wheat Varieties to Tan Spot," for which she was awarded 'Honorable Mention'
- 2015; "Wheat Diseases and Their Management in Oklahoma," 50 minute presentation describing extension to nine exchange students from the University of Technology of Monterrey (Mexico)
- 2014; Host plant resistance (PLP 5560; 1 credit); Special problems summer course; 2 students
- 2014-1997; Career Skills & Professionalism (ENTO/PLP 5992); Co-instructor with Dr. Jacque Fletcher, Entomology & Plant Pathology (EPP) Department
- 2012, 2011; PLP 4400 (3 credits each of two semesters - Evaluation of ELISA for *Wheat spindle streak mosaic virus*); undergraduate special studies with Ms. Jordan Gatlin (project resulted in poster at the Tri-Societies annual meeting - see "Abstracts" below)
- 2008; Integrated Pest Management (ENTO/PLP 5524); presented guest lecture on plant pathogens
- 2007; PLP 4400 (2 credits – Wheat-Leaf Rust Interactions); undergraduate special studies with Mr. B. Clayton; project resulted in poster at the Tri-Societies annual meeting (see "Abstracts" below)
- 2006-2000 (in even years); Host-Plant Resistance (ENTO/PLP 5613); Co-instructor with Dr. Richard Berberet, EPP Department
- 2004; Faculty advisor for student in "Retention of Students in the Biological Sciences," administered through the Biochemistry Department
- 2004; Presented a training session on, "Job Search and Interview Techniques" as part of the seminar series "Training in the Professoriate" organized by the Graduate College
- 1999, 1997, 1995, 1993, 1991, 1989, 1986, 1983; Genetics of Plant Disease (PLP 6102)
- 2003-2002; Faculty Advisor, Graduate & Professional Student Government Association
- 2002-1995; Served as the "Plant Doctor" at Audubon Nature Day in October
- 2002; Special topics: Intro to Plant Pathology (PLP 5560)
- 2000, 1995, 1989, 1982; Departmental seminar coordinator

- Presented guest lectures and/or labs in the following courses:
 - 2014; PLNT 5412(Plant Breeding Methods); Dr. Yanqi Wu, instructor
 - 2014, 2011, 2009, 2003, 2000, 1997, 1995; PLP 5560 (Plant Disease Epidemiology); H.A. Melouk, instructor
 - 2010; PLP 5013 (Plant Virology); J.M. Verchot, instructor
 - 2007, 2005; Freshman orientation (AG 1011)
 - 1996, 1992, 1989; Advanced Topics-Plant Breeding/Genetics (AGRON 6010)
 - 1990, 1984, 1982; Plant Pathology Colloquium (PLP 5560)
 - 1988, 1987, 1984; Introductory Plant Pathology (PLP 3344)
 - 1985; Crop Production Laboratory (AGRON 2012)
 - 1983; Plant Breeding Techniques I (AGRON5411)
- 1998-1993; delivered science presentations to Sangre Ridge Elementary classes (grades 2nd – 5th) on plants & plant growth, plant diseases, pH, acids & bases, microscopes/photography
- 1995-1991; Faculty Associate for Residential Hall
- 1993, 1991, 1989, 1986, 1983; Genetics of Fungi (PLP 6202)
- 1985; Undergraduate research project (PLP 4400)
- 1984; Advanced Topics in Plant Pathology (PLP 5503); team instructed

Extension activities: [NOTE: In 1995, I assumed extension responsibility for cereal grains pathology. Prior to that time, I had no formal extension appointment]

- Extension presentations (e.g., certified crop advisor trainings, in-service trainings, field days, producer meetings, etc.) ≈20/year
- Six extension videos are posted at <http://wheat.okstate.edu/extension-videos>. Numbers in brackets are [views in 2013/views in 2014/views in 2015/views in 2016 (total views over 4 years)]:
 - Foliar diseases of wheat [654/396/614/892 (2,556)]
 - Wheat soilborne mosaic virus and wheat spindle streak mosaic virus [302/133/109/126 (670)]
 - Barley yellow dwarf virus [655/225/252/232 (1,364)]
 - Management of wheat streak mosaic and similar mite-transmitted diseases [154/227/158/123 (662)]
 - Fusarium head blight of wheat [774/614/781/888 (3,057)]
 - Foliar fungicides and wheat production in Oklahoma [307/76/81/107 (571)]
- Television/radio/newspaper contributions: ≈4/year
- Consultation (by phone or in-person) with extension agents/producers, etc. to diagnose problems: >60/year
- Publication of timely disease updates: ≈12-15/year
- Synthesis and revision of fact sheets: 24 since 1995
- Since 1996, annual testing of wheat produced in Oklahoma for presence of Karnal bunt. This testing is required for wheat produced in Oklahoma to be certified as being produced in an area not known to be infested with Karnal bunt, which is required for free movement into international markets

Service - university:

- 2016-2014: University Retirement and Fringe Benefits Committee of Faculty Council; member/secretary
- 2016: With the Wheat Improvement Team, met with Dr. Arlette Klaric & Ms. Marguerite Perret to explore development of an art exhibit to represent science/research
- 2007-2003: Graduate Faculty Council; vice-chair
- 2007-2003: University's Honorary Degree Committee; chair
- 2015-2012, 2011-2009, 2007, 2005, 2003-2001: Chaired and/or judged paper sessions at the O.S.U. Annual Research Symposium

- 2004-2001: Athletic Committee of Faculty Council; member/secretary
- 2003: Search & screen committee for Dean of the Graduate College and Associate VP for Research; member
- 2002: Moderated a campus session titled, "Is the Spirit Engendered by Athletics on Division I Campuses an Educational or Entertainment Spirit?" (sponsored by the Athletic Committee of Faculty Council)
- 1999: Search & screen committee for Associate Dean of the Graduate College; member
- 1999-1997: Biological Sciences, Group I; chair
- 1999: Graduate Faculty Elections Committee; chair
- 1999: *Ad hoc* committee to develop recommendations regarding the administrative structure of the Graduate College; member
- 1999-1955: Rules Committee of the Graduate Faculty; member
- 1999-1998: University's Honorary Degree Committee; member
- 1999-1993: Graduate Faculty Council; member
- 1997: *Ad hoc* committee to formulate recommendations to the President regarding incentives and rewards to promote excellence in research; member
- 1997-1995: Biological Sciences, Group I; vice-chair
- 1995-1993: Biological Sciences, Group I; secretary
- 1997-1996: OSU Health Care Committee; member
- 1997-1996: Retirement & Fringe Benefits Committee; member
- 1996-1993: Faculty Committee of Faculty Council; member
- 1993-1990: Faculty Council representative from Biological Sciences, Group I
- 1993-1992: Faculty Council Executive Committee; member
- 1993-1992: Retirement & Fringe Benefits Committee; member
- 1993: Nominating committee; member
- 1992-1990: University Budget Committee; member
- 1992-1991: Liaison of the Faculty Council to the Graduate Faculty Council
- 1993-1992 & 1991-1990: Faculty Council liaison to the University Research Council
- 1990-1986; Faculty of Biotechnology; member
- 1989-1988: Committee to establish a chapter of Phi Beta Kappa at OSU; member, & subcommittee to write goals and objectives of the University; chair
- 1986-1984; Graduate Faculty of Genetics; member
- 1984: Advisor for the student organization 'ACES' (Active Cultural Experiences for Students)

Service – college:

- Present-1990; Plant Materials Release Committee; member
- 2016; With the Wheat Improvement Team, met with representatives from Archer Daniels Midland Company to explore possibilities of white wheat production in Oklahoma
- 2016; With the Wheat Improvement Team, met with Dr. Barry Knight and Dr. Tom Coon to explore crop improvement strategies
- 2015; Search & screen committee for the Professor/Director of the National Institute of Microbial Forensics, Food, and Agricultural Biosecurity; chair
- 2015; Search & screen committee for the Small Grains Extension Agronomist; Department of Plant & Soil Sciences; member
- 2010-1989; Controlled Environmental Research Laboratory Advisory Committee; member
- 2004; Search & screen committee for the Small Grains Extension Specialist in the Department of Plant & Soil Sciences; member

- 2004; Search & screen committee for the position on Interim Associate Dean of the Graduate College; member
- 2004-Aug; Co-presented a seminar on, “Job Search and Interview Techniques” as part of the, “Training in the Professoriate Seminars” organized by the OSU Graduate College
- 2003, 1989, 1986; gave presentations to the Dean’s Advisory Group
- 1997 (May-Sep); Interim Department Head
- 1991-1989; Professors in the Classroom; this involved giving presentations to high school students to recruit students to the OSU College of Agriculture
- 1991-1989; Division of Agriculture Faculty Group; Department representative
- 1987-1985; Agricultural Careers Committee; secretary & member
- 1987-85; OSU Scholars Day Program, High School Day Program, and Honors Student Program; Departmental representative
- 1986-1985; Biotechnology faculty seminar and symposium committee; member
- 1985; College of Agriculture's Freshman Initiation Program; Departmental representative
- 1985-1983; College of Agriculture Special Graduate Scholarships Committee, member
- 1985-1983; organized a lunch-hour discussion for wheat research workers

Service - department:

- Present-2016; Graduate Student Handbook Committee; chair
- Present-2000; Curriculum Committee; member
- Present-2007; Graduate Student Selection Committee; member
- Present-2007; Infrastructure Committee; member
- Present-2012; Awards Committee; member
- Present-2012; Reappointment, Promotion and Tenure Committee; member
- 2016; provided a presentation on my research and extension activities to the Department Head Advisory Committee
- 2016; met with the Ento/Plp Sanborn Club to discuss Graduate School opportunities
- 2016; Senior Lab Technologist Search & Screen Committee; member
- 2016-2013; Department Graduate Coordinator
- 2016-2013; Graduate Student Handbook Committee; member
- 2016-1989; occasional Acting Department Head
- 2012-2010; Plant Pathology PhD Assessment Committee; chair
- 2009-2008; Plant Pathology PhD Assessment Committee; member
- 2009-2008; Plant Pathology PhD Assessment Committee; member
- 2007; Reappointment, Promotion, and Tenure Committee; chair
- 2007; Stored Products Search & Screen Committee; member
- 2007; National Institute of Microbial Forensics, Food & Agricultural Biosecurity Assistant Director Search & Screen Committee; member
- 2007; Plant Disease & Insect Diagnostic Laboratory Search & Screen Committee; member
- 2006-2002; Reappointment, Promotion, and Tenure Committee; member
- 2002; Assistant Professor of Plant Pathology Search & Screen Committee, member
- 1999-1998; Reappointment, Promotion, and Tenure Committee; chair
- 1998; *Ad hoc* committee to formulate reappointment, promotion and tenure criteria and procedures for the merged Entomology & Plant Pathology Department; member
- 1997-1992; Small grains, corn, sorghum & alfalfa commodity committee, chair

- 1997-1988; Third floor corridor labs committee; chair
- 1997-1988; Teaching laboratory committee; member
- 1997-1988; Growth chamber committee; member
- 1997-1983; Plant pathology farm operations committee; member
- 1997-1983; Curriculum committee; member
- 1996-1992; Department programs assessment; coordinator
- 1994-1982; Plant Pathology Graduate Student Club; advisor
- 1994, 1986; Graduate student screening and admissions committee; chair
- 1993, 1985; Graduate student screening and admissions committee; member
- 1990; *Ad hoc* committee to recommend space reassignments in the Noble Research Center; member
- 1988-1987; *Ad hoc* committee to develop and A & D form for classified personnel; chair
- 1988; *Ad hoc* committee to develop recommendations for student recruitment, advisement, and distribution of research assistantships, member
- 1988-1983; Social committee; chair
- 1988-1983; Life Science East laboratory and prep room committee; member
- 1987; *Ad hoc* committee to develop the teaching portion of the CSRS review; chair
- 1987; *Ad hoc* committee to draft the Plant Pathology-OSU Program Review; chair
- 1987; *Ad hoc* committee to design a greenhouse for the Noble Center, member
- 1986; *Ad hoc* committee to procedure and form for course and instructor evaluation; member
- 1985; *Ad hoc* search and screen committee for epidemiologist; member
- 1984-1983; Committee for development of undergraduate recruitment; member
- 1983; *Ad hoc* committee to develop guidelines for the recruitment, admission, retention and advisement of graduate students; chair
- 1982; *Ad hoc* committee to develop undergraduate curriculum in Plant Pathology; member

Service - miscellaneous:

- Present-1982; Manuscript, book, proposal, and/or project reviews for *Annals of Applied Biology*; *Agronomie*; *Crop Science*; *Biological Control: Theory and Plant Disease Applications in Pest Management*; *Canadian Journal of Plant Pathology*; *Canadian Journal of Plant Science*; *Crop Protection*; *European Journal of Plant Pathology*; *Plant Disease*; *Plant Disease Notes*; *Journal Amer. Soc. Hort. Sci.*; *Journal of Integrated Pest Management*; *Journal of Phytopathology*; *Journal of Sugar Beet Res.*; *Phytopathology*; *Phytoparasitica*; *Plant Disease*; *Plant Pathology*; Van Nostrand Reinhold Publishers; BARD grant; Western Regional IPM Special Grants Program; Agricultural Utilization Research Institute; Kansas Agricultural Experiment Station
- 2014-2011; Reviewer of proposals for Washington Grain Commission
- 2004-1996; Associate editor for *Plant Disease*, APS Press; during this nine years I have reviewed 98 manuscripts for *Plant Disease* and 13 for other journals
- 2002; Moderated a paper session at the annual meeting of the American Phytopathological Society
- 1999; Local arrangement committee for the Annual Wheat Breeder Field Day at Stillwater, member
- 1995; 20th annual Hard Red Winter Wheat Workers Conference, Oklahoma City; Local arrangement committee, member; poster presentations committee; chair
- 1989; Organized and chaired a discussion session at the national meeting of the American Phytopathological Soc., Richmond, VA, titled "Student Recruitment: A Guaranty for the Future of Science, Agriculture, and Plant Pathology
- 1988; Organized and chaired a colloquium at the national meeting of the American Phytopathological Society, San Diego, CA, titled, "Application of Biotechnology for Crop Improvement"

- Participated in promotion and tenure reviews for faculty in Plant Pathology Departments at the University of Arkansas, North Dakota State, Oregon State, and Washington State Universities

Graduate students:

- 2015; Ms. Nathalia Graf Grachet; M.S.; Effect of foliar fungicides on relative chlorophyll content, green leaf area, yield, and test weight of winter wheat; 67 pp
- 2012; Dr. Ahmed Abd Elmajid; Ph.D. (co-advisor with Dr. H.A. Melouk); Water potential interaction with host and pathogen and development of a multiplex PCR for *Sclerotinia* species, 116 pp
- 2010; Dr. Kazi Kader, Ph.D.; Fitness, virulence and genetic variability in *Pyrenophora tritici-repentis* isolates causing tan spot of wheat in Oklahoma. Oklahoma State University, 104 pp
- 2006; Dr. Vijay Choppakatla, Ph.D. (co-advisor with Dr. H.A. Melouk); Pathogenicity of *Rhizoctonia* spp. and *Sclerotium rolfsii* on wheat and peanut and genetic variation among *Rhizoctonia* isolates, Oklahoma State University, 128 pp
- 2003; Ms. Brenda Tererai Trent; M.S.; The bird cherry-oat aphid (*Rhopalosiphum padi*) and barley yellow dwarf virus complex: Separation of aphid and virus effects and control with insecticide seed treatments, Oklahoma State University, Stillwater, 91 pp
- 2001; Mr. Brian Olson, M.S.; Effect of the bird cherry-oat aphid (*Rhopalosiphum padi*) on wheat and control of the aphid/barley yellow dwarf complex with Gaucho (Imidacloprid) insecticide, Oklahoma State University, Stillwater, OK, 114 pp
- 2000; Ms. Aswathy Sreedharan; M.S.; 2000; Characteristics of *Rhizoctonia* spp. isolated from wheat and peanut and their pathogenicity and virulence on hard red winter wheat, Oklahoma State University, Stillwater, OK, 119 pp
- 1995; Dr. Joe R. Montana; Ph.D.; Characterization of wheat streak mosaic virus serotypes and their effect on wheat, Oklahoma State University, Stillwater, OK, 173 pp
- 1995; Dr. Conrad K. Evans; Ph.D.; Infection efficiency of propagules of *Pyrenophora tritici-repentis* isolates and evaluation of wheat for reaction to tan spot, Oklahoma State University, Stillwater, OK, 104 pp
- 1992; Dr. Ali Farih; Ph.D.; “Components of partial resistance, mode of inheritance of resistance to septoria tritici blotch, and status of septoria diseases in Morocco, Oklahoma State University, Stillwater, OK, 89 pp
- 1990; Dr. Daniel A. Brown; Ph.D.; “Toxin production by the fungal pathogen *Pyrenophora tritici-repentis*, cause of tan spot of wheat,” Oklahoma State University, Stillwater, OK, 88 pp
- 1989; Dr. Charla Rae Armitage; Ph.D.; Serological investigations of the interactions between wheat soilborne mosaic virus and hard red winter wheat, Oklahoma State University, Stillwater, OK, 104 pp
- In addition to the above, I am serving, or have served, on committees for:
 - 12 Ph.D. and 12 M.S. students in Plant Pathology
 - 4 Ph.D. and 10 M.S. students in Plant & Soil Sciences/Plant Sciences

Invited presentations:

- 2016-Jan; “Timing of Application can Affect Control of Foliar Wheat Diseases,” 2016 Annual Meeting of the Oklahoma Agricultural Aviation Association, Norman, OK
- 2016-Mar; “Managing Disease on a Budget,” 2016 No-till Oklahoma Conference, Norman, OK
- 2016-Mar; “Wheat Disease Management,” 2016 No-till Oklahoma Conference, Norman, OK
- 2016-Apr; “Soil-borne viruses in wheat,” Edgar S. McFadden Symposium and Winter Wheat Workers Workshop, San Antonio, TX
- 2016-Aug; “A Review of Oklahoma Wheat in 2016 – The Disease Perspective,” 2016 Annual Wheat Review and Oklahoma Wheat Growers Association Meeting, El Reno, OK
- 2016-Dec; “Application of Fungicides in the Current Market,” 2016 Winter Crop School, Stillwater, OK

- 2015-May; “Incident Recognition/Detection: First Detectors” and “Field Trip Scenario Setup – Wheat Streak Mosaic Virus,” National Institute of Microbial Forensics, Food, and Agricultural Biosecurity FBI Plant Pathology Training Exercise, Stillwater OK
- 2015-Aug; “Impact of wheat diseases in 2015 and how to combat those challenges for the future,” Annual Wheat Review and Oklahoma Wheat Grower Association Convention; El Reno, OK
- 2015-Dec; “Wheat Soil-borne Mosaic/Wheat Spindle Streak Mosaic: A Resistance Breeding Success Story,” First Soil Biology Symposium, Oklahoma State University, Stillwater, OK
- 2015-Dec; “2015 fungicide results in winter wheat,” Winter Crop School; Stillwater, OK
- 2014-Apr; “A pathologist’s reflections on interacting with plant breeders sprinkled with a glimpse at the future,” Seminar presented at Kansas State University
- 2014-Jan; with J. Damicone; “Aerial vs Ground Application of Fungicides – Is There a Difference?” Oklahoma Agricultural Aviation Association, Midwest City, OK
- 2014-Mar; “Rotational considerations for diseases of wheat,” No-till Oklahoma Conference, Norman, OK
- 2014-Dec; “How plant pathology fits in with wheat breeding at OSU,” Winter Crop School, Stillwater, OK
- 2013-Jan; with T. Royer; “Use of fungicides and insecticides to limit losses from fungal diseases and insect pests,” Oklahoma Agricultural Aviation Association, Midwest City, OK
- 2013-Feb; weather prevented me from giving this presentation – was given by Dr. Jeff Edwards; “Changes in wheat foliar disease and fungicide use in wheat after wheat rotations,” 2013 No-till Oklahoma Conference, Norman, OK
- 2013-Dec; with J. Damicone; “Aerial versus ground application of fungicides – is there a difference in effectiveness?” Oklahoma Ag Expo, Midwest City, OK
- 2013-Dec; “Seed treatments and foliar fungicides can help protect wheat production in Oklahoma,” 2013 Winter Crop School, Stillwater, OK
- 2012-Dec; “Foliar fungicides for wheat,” Winter Crop School, Stillwater, OK
- 2012-Oct; “Wheat Disease Foliar Fungicides and Plant Health” and “Management strategies to limit losses from the aphid/barley yellow dwarf complex,” Oklahoma Ag Expo
- 2011-Feb; “A wheat variety disease check-up: Past perspectives, the present status, and a look at the future,” Oklahoma Crop Improvement Association, Oklahoma City, OK
- 2010-Mar; “Fungicide options for wheat,” Small Grains Solutions meeting organized by High Plains Journal and John Deere
- 2010-Mar; “Fusarium head scab and vomitoxin in wheat,” In-service training, McAlester, OK
- 2010-Mar; “Wheat disease identification and management,” In-service training, Stillwater, OK
- 2010-Mar; “Fungicide application on disease resistant Wheat: Is the Response What You would Expect?,” Winter Crop School, Stillwater, OK
- 2010-Jun; “Basics of disease threats that affect wheat production,” presentation at Oklahoma National Guard Training Program, Oklahoma State University; organized by Dr. D. Henneberry
- 2009-Jan; “New Fungicides for Management of Foliar Wheat Diseases in Oklahoma,” Oklahoma Agricultural Aviators Association; Oklahoma City, OK
- 2009-Feb; Oklahoma Crop Improvement Association, Oklahoma City, OK;
 - “Stem Rust of Wheat: An Oklahoma Perspective”
 - “Wheat Disease Update for Oklahoma”
- 2009-May; “Basics of disease threats that affect wheat production in Afghanistan,” presentation at Oklahoma National Guard Training Program organized by Dr. David Henneberry
- 2009-Aug; “New strategies for managing wheat diseases,” Bayer CropScience 2009 Wheat Summit, Wichita, KS

- 2009-Nov; "Concerns associated with Fusarium head blight (FHB)," Oklahoma Agricultural Exposition, Oklahoma City, OK
- 2009-Dec; "Concerns associate with Fusarium head blight (FHB)," Annual meeting of the Oklahoma Wheat Growers Association, Oklahoma City, OK
- 2008-Jan; "Managing diseases of wheat in Oklahoma with seed treatments and foliar fungicides," Oklahoma Agricultural Aviators Association, Oklahoma City, OK
- 2008-Jan; "Disease management in no-till in Oklahoma," Annual No-till in Oklahoma Conference, Oklahoma City, OK
- 2008-May; "Stem Rust and Ug 99: An Oklahoma Perspective," Oklahoma Wheat Commission meeting, Kingfisher, OK
- 2008-May; "Disease model: Wheat Streak Mosaic Virus," National Institute for Microbial Forensics & Food and Agricultural Biosecurity Workshop, Stillwater, OK
- 2008-Jul; "Seed treatments and wheat disease control in Oklahoma," Wheat Technology meeting sponsored by Bayer CropScience, Oklahoma City, OK
- 2007-Jul; "Secondary Diseases, Rust and Powdery Mildew." Wheat Technology Meeting, Bayer Crop Science, Oklahoma City, OK
- 2007-Aug; "Wheat Diseases in 2006-07: Would seed treatments/foliar fungicides have helped?" Rolling Plains Wheat Stocker Cattle Conference, Wichita Falls, TX
- 2006-Aug; "Wheat diseases," Wheat Technology Meeting sponsored by Bayer CropScience; Oklahoma City, OK
- 2005-Nov; "Methods to control plant diseases," Oklahoma Ag Exposition; Oklahoma City, OK
- 2005-Dec; "Stripe rust: An old disease, but a new concern," Oklahoma Wheat Growers Association & Trade Show, Oklahoma City, OK
- 2003-Mar; "Effects of the aphid/barley yellow dwarf virus complex on wheat." Southwestern Wheat Research & Education Consortium, Wichita Falls, TX
- 2002-Feb; "Status of disease resistance wheat breeding at OSU." Oklahoma Crop Improvement Association, Oklahoma City, OK
- 2002-Sep; "Wheat diseases of Oklahoma - Are they changing?" Oklahoma Agri-Busines Exposition, Oklahoma City, OK
- 2000-May; "Wheat diseases in Oklahoma." Agripro Seeds Associates meeting, Salina, KS
- 2000-May; "Wheat diseases in Oklahoma." Annual Wheat Breeder's meeting, Hays, KS
- 1999-Mar; "Characterization of resistance to wheat soilborne mosaic." Eastern Soilborne Fungus Conference (ERCERIM-17 Program), Purdue University, West Lafayette, IN
- 1998-Aug; "Wheat disease perspectives in Oklahoma during 1998-99." Fall Cereal Conf, Manhattan, KS
- 1998-Mar; "1998 wheat diseases - A southern perspective," Agripro Seeds Assoc Meeting, Hutchinson, KS
- 1996-Dec; "How will Karnal bunt and TCK smut affect Oklahoma?" Grain & Elevator Conf, Stillwater, OK
- 1996-Aug; "Trends in wheat diseases in Oklahoma." Fall Cereal Conference, Manhattan, KS
- 1994-Oct; "Severity and status of wheat streak mosaic virus in Oklahoma." Wheat streak mosaic virus mini-symposium, Bozeman, MT
- 1993-Dec; "Virology and breeding for disease resistant wheat: An example of cooperation." University of Arkansas, Fayetteville, AR
- 1993-Nov; "The utility and application of ELISA and PCR in breeding for resistance to wheat soilborne mosaic virus." Annual meeting of the American Phytopathological Society, Nashville, TN
- 1992-Oct; "Plant pathology: Contributing to healthy plants for a healthy planet." Panhandle State University, Goodwell, OK

- 1990-Feb; "Development of disease resistant wheat." Oklahoma Crop Improvement Association, Oklahoma City, OK
- 1989-Aug; "Genetics of fungi using *Sordaria fimicola*." National Science Teachers Association, Tulsa, OK
- 1989-Jan; "Evaluation of hard red winter wheat for reaction to wheat soilborne mosaic virus and wheat streak mosaic virus." Hard Red Winter Wheat Workers Conference, Dallas, TX
- 1988-Nov; "The use of ELISA in breeding for disease resistance." Annual meeting of the American Phytopathological Society, San Diego, CA
- 1987-Aug; "Detection and assessment of resistance to wheat soilborne mosaic virus." Symposium on Viruses with Fungal Vectors, St. Andrews, Scotland
- 1987-Feb; "Leaf rust, tan spot, and soilborne wheat mosaic virus." Oklahoma Crop Improvement Association, Oklahoma City, OK
- 1985-Oct; "Wheat pathology and breeding for disease resistance in wheat." Department of Botany, Oklahoma State University
- 1982-Nov; "Chemical control of hop downy mildew and tolerance by *Phytophthora* isolates to the systemic fungicide metalaxyl," Oklahoma State University, Department of Microbiology
- 1982-Nov; "The future of wheat disease research at Oklahoma State University." Kansas State University, Department of Plant Pathology
- 2000, 1997, 1992, 1987, 1984; Departmental seminars

Community involvement/awards:

- Present-1985; Mobile Meals volunteer driver; deliver meals to homebound elderly once a week
- Present-2000; Attend Sunnybrook Christian Church of Stillwater
- 2016-2011; Chair, Mobile Meals Board of Directors
- 2011-2010; Vice-chair, Mobile Meals Board of Directors
- 2008-2003; Chair, Mobile Meals Board of Directors
- 2002-1993; Coached or assisted in coaching girls and boys basketball, baseball, flag football, indoor & outdoor soccer, and wrestling teams for the YMCA, Stillwater Parks and Recreation, Stillwater Youth Baseball Association, and the Stillwater Wrestling Club
- 2001-April; awarded the Mobile Meals Award of Excellence
- 2000-1994; Secretary & member, Mobile Meals Board of Directors
- 1999-1990; Member First Presbyterian Church of Stillwater; included being a Deacon with involvement in elderly visitation and other community projects
- 1996; Olympic torch relay runner
- 1985-1983; Big brother in Big Brothers/Big Sisters organization

Publications – Dr. Robert M. Hunger – through December, 2016

- Book/book chapters: 5
- Refereed journals: 54
- Other refereed professional articles: 53
- Variety/germplasm releases: 26/10
- Abstracts: 71
- Extension publications: >300

Book/book chapters:

2010. “Compendium of Wheat Diseases and Pests,” W.W. Bockus, R.L. Bowden, R.M. Hunger, W.L. Morrill, T.D. Murray, and R.W. Smiley, eds., 3rd edition, APS Press, St. Paul, MN

2010. R.M. Hunger, “Compendium of Wheat Diseases and Pests,” 3rd edition, APS Press, St. Paul, MN. Three chapters:

-Downy Mildew (Crazy Top); pp. 29-30

-Wheat soilborne mosaic; pp. 112-113

-Wheat streak mosaic virus; pp. 115-117

1991. Hunger, R.M. Management of wheat diseases. Pages 175-186 in, “Handbook on Pest Management,” 2nd ed., vol. III, David Pimentel ed., CRC Press, Boca Raton, FL

Cultivar and germplasm releases:

2016. ‘Stardust’ hard white winter wheat. Carver, B.F., R.M. Hunger, J.T. Edwards, B. Arnall, L. Yan, C. Powers, N. Stepp, J. Ray, C. Shelton, M.B. Barnes, B.R. Olson, S.R. Calhoun, R.D. Osburn, and J. Wright. Released by the Oklahoma Agricultural Experiment Station (OAES)

2016. ‘OK05312’, a high-yielding hard winter wheat donor of *Cmc4* for wheat curl mite resistance. Carver, B.F., C.M. Smith, W-P. Chuang, R.M. Hunger, J.T. Edwards, L. Yan, G. Brown-Guedira, B.S. Gill, G. Bai, and R.L. Bowden. Released by OAES, Kansas AES

2015. ‘Bentley’ hard red winter wheat. Carver, B.F., J. Edwards, R.M. Hunger, L. Yan, L., and D.B. Arnall, D.B. Released by the Oklahoma Agricultural Experiment Station (OAES)

2013. ‘DoubleStop CL Plus’ hard red winter wheat. Carver, B.F., J. Edwards, R.M. Hunger, L. Yan, G. Bai, R. Chen, and M. Chen. Released by the OAES

2012. ‘Gallagher’ hard red winter wheat. Carver, B.F., Hunger, R.M., Edwards, J., Porter, D. Rayas-Duarte, P., Klatt, A., Yan, L., and Martin, B. Released by the OAES

2012. ‘Iba’ hard red winter wheat. Carver, B.F., Hunger, R.M., Edwards, J., Porter, D. Rayas-Duarte, P., Klatt, A., Yan, L., and Martin, B. Released by the OAES

2011. ‘Garrison’ hard red winter wheat. Carver, B.F., Hunger, R.M., Edwards, J., Porter, D. Rayas-Duarte, P., Klatt, A., Yan, L., and Martin, B. Released by the OAES

2011. ‘Ruby Lee’ hard red winter wheat. Carver, B.F., Hunger, R.M., Edwards, J., Porter, D. Rayas-Duarte, P., Klatt, A., Yan, L., and Martin, B. Released by the OAES

2009. ‘Billings’ hard red winter wheat. Carver, B.F., Hunger, R.M., Edwards, J., Porter, D. Rayas-Duarte, P., Klatt,

- A., Yan, L., and Martin, B. Released by the OAES
2009. 'Pete' hard red winter wheat. Carver, B.F., Hunger, R.M., Edwards, J., Porter, D. Rayas-Duarte, P., Klatt, A., Yan, L., and Martin, B. Released by the OAES
2008. 'OK Rising' hard red winter wheat. Carver, B.F., Hunger, R.M., Edwards, J., Porter, D. Rayas-Duarte, P., Klatt, A., Yan, L., and Martin, B. Released by the OAES
2006. 'Duster' hard red winter wheat. Carver, B.F., Hunger, R.M., Edwards, J., Porter, D. Rayas-Duarte, P., Klatt, A., Yan, L., and Martin, B. Released by the OAES
2006. 'Centerfield' hard red winter wheat. Carver, B.F., Hunger, R.M., Edwards, J., Porter, D. Rayas-Duarte, P., Klatt, A., Yan, L., and Martin, B. Released by the OAES
2005. 'OK Bullet' hard red winter wheat. Carver, B.F., Hunger, R.M., Klatt, A., Edwards, J., Porter, D., Rayas-Duarte, P., Verchot-Lubicz, J., and Martin, B. Released by the OAES
2005. 'Guymon' hard white winter wheat. Carver, B.F., Hunger, R.M., Edwards, J.T., Rayas-Duarte, P., Klatt, A.R., Porter, D.R., Seabourn, B.W., Bai, G.-H., Dowell, F.E., Yan, L.-L., and Martin, B.C. Released by the OAES (2008. Journal of Plant Registrations 2:33-35)
2005. 'Okfield' hard red winter wheat. Carver, B.F., Hunger, R.M., Edwards, J.T., Porter, D.R., Peeper, T.F., Seabourn, B.W., Rayas-Duarte, P., Klatt, A.R., and Martin, B.C. Released by the OAES (2007. Journal of Plant Registrations 1:102-103)
2004. 'Endurance' hard red winter wheat. Carver, B.F., Smith, E.L., Hunger, R.M., Klatt, A.R., Edwards, J.T., Porter, D.R., Verchot-Lubicz, J., Rayas-Duarte, P., Bai, G.-H., Martin, B.C., Krenzer, E.G., and Seabourn, B.W. Released by the OAES (2006. Crop Science 46:1816-1817)
2004. 'Deliver' hard red winter wheat. Carver, B.F., Hunger, R.M., Smith, E.L., Klatt, A.R., Edwards, J.T., Porter, D.R., Rayas-Duarte, P., Verchot-Lubicz, J., Martin, B.C., Krenzer, E.G., and Seabourn, B.W. Released by the OAES (2006. Crop Science 46:1819-1820.)
2002. 'Ok102' hard red winter wheat. Carver, B.F., Krenzer, E., Hunger, R.M., Porter, D., Smith, E.L., Klatt, A., Verchot-Lubicz, J., Bai, G., Rayas-Duarte, P., Guenzi, A., Bai, G., and Martin, B. Released by the OAES (2004. Crop Science 44:1468-1469)
2001. 'Ok101' hard red winter wheat. Carver, B.F., Smith, E.L., Krenzer, E.G., Hunger, R.M., Porter, D.R., Klatt, A.R., Verchot-Lubicz, J., Rayas-Duarte, P., Guenzi, A.C., Martin, B.C., and Bai, G. Released by the OAES (2003. Crop Science 43:2298-2299)
2001. Six winter wheat germplasm lines with resistance to wheat leaf rust and/or wheat soilborne mosaic. Hunger, R.M., Sherwood, J.L., Verchot, J., Siegerist, W.C., Smith, E.L., and Carver, B.F. Released by the OAES
2000. 'Intrada' hard white winter wheat. Carver, B.F., Krenzer, E.G., Hunger, R.M., Martin, T.J., Klatt, A.R., Porter, D.R., Verchot, J., Rayas-Duarte, P., Guenzi, A.C., Martin, B.C., and Bai, G. Released by the OAES (2003. Crop Science 43:1135-1136)

1997. '2174' hard red winter wheat. Smith, E.L., Carver, B.F., Morgan, G.H., Jones, D.L., Wood, W., Hunger, R.M., and Sherwood, J.L. Released by the OAES
1997. 'OK91P648', an acid-soil tolerant wheat germplasm. Smith, E.L., Carver, B.F., Hunger, R.M., Sherwood, J.L., Ward, R.G., and Jordan, B.G. *Crop Science* 37:296-97
1994. 'Custer' hard red winter wheat. Smith, E.L., Carver, B.F., Morgan, G.H., Jones, D.L., Wood, W., Hunger, R.M., and Sherwood, J.L. Released by the OAES
1994. 'Tonkawa' hard red winter wheat. Smith, E.L., Carver, B.F., Morgan, G.H., Jones, D.L., Wood, W., Hunger, R.M., and Sherwood, J.L. Released by the OAES
1993. Release of 1B versus 1RS.1BL near-isoline genetic stocks from two hard red winter wheat populations. Carver, B.F., Rayburn, A.L., Hunger, R.M., Smith, E.L., and Whitmore, W.E. *Crop Sci.* 33:1120
1991. 'Post 90' barley. Morgan, G.H., Smith, E.L., Hunger, R.M., Burton, R.L., and Webster, J.A. Released by the OAES
1990. 'Cimarron' hard red winter wheat. Smith, E.L., Carver, B.F., Morgan, G.H., Dougherty, D., Hunger, R.M., Burton, R.L., Webster, J. A., and Gough, F.J. Released by the OAES
1989. 'Century' hard red winter wheat. Smith, E.L., Sharma, R.C., Merkle, O.G., Sebesta, E.E., Burton, R.L., Webster, J.A., Hunger, R.M., Abbott, D.C., Carver, B.F., and Morgan, G.H. *Crop Sci.* 29:1093-1094

Journal articles:

In press, in review, or in preparation (not counted in totals):

2017. Abd-Elmagid, A., H. Melouk, C. Garzon, M. Payton, and R. Hunger. Effects of osmotic and matric potentials on *Pyrenophora tritici-repentis*. *Current Agriculture Research* (submitted September, 2016)
2017. Orquera-Tornakian, G.K., S.M. Marek, B. Kronmiller, B.M. Tyler, P. Garrido, R. Hunger, and C. Garzon. Identification and characterization of simple sequence repeats (SSRs) for population studies of *Puccinia emaculata*. *Journal of Microbiological Methods* (submitted September 2016)
2017. Fang, T., G. Li, C. Powers, R.M. Hunger, B.F. Carver, and L. Yan. A novel combination of Lr34-D genes exist in winter wheat cultivar 'Duster'. *BMC Plant Biology* (PBIO-D-16-00582; submitted Nov 2016)
2017. Fang, T., B.F. Carver, B. Hunger, and L. Yan. Mis-spliced Lr34 transcript events in winter wheat. *PLOS ONE* (PONE-D-16-44992; submitted Nov 2016)

Published/In Press/Accepted:

2017. Li, G., X. Xu, G. Bai, B.F. Carver, R. Hunger, and J.M. Bonman. Identification of novel leaf rust resistance sources in winter wheat. *Crop Science* [CROP-2016-08-0725-ORA.R1; accepted 21-Dec-2016]
2016. Abd-Elmagid, A., R. Hunger, C. Garzon, M. Payton, H-J. Ju, and H. Melouk. Effect of osmotic and matric potentials on *Sclerotinia minor* and *Sclerotinia sclerotiorum* virulence on peanut. *International Journal of Phytopathology* 04(03):147-158 - ISSN: 2305-106X

2016. Li, G., X. Xu, G. Bai, B.F. Carver, R. Hunger, and M. Bonman. Identification of novel powdery mildew resistance sources in wheat. *Crop Science* 56:1817-1829
2016. Li, G., X. Xu, G. Bai, B.F. Carver, R. Hunger, J.M. Bonman, J. Kolmer, and H. Dong. 2016. Genome-wide association mapping reveals novel QTL for seedling leaf rust resistance in a worldwide collection of winter wheat. *Plant Genome* 9(3); 12 pages; doi: 10.3835/plantgenome2016.06.0051
2016. Murray, T.D., W.W. Bockus, R.L. Bowden, R.M. Hunger, and R.W. Smiley. *Diseases of Wheat (Triticum spp. L.)*. Published by the American Phytopathological Society at <http://www.apsnet.org/p2016ublications/commonnames/Pages/Wheat.aspx>
2016. Li, G., G. Bai, B.F. Carver, N.C. Elliott, R.S. Bennett, Y. Wu, R. Hunger, J.M. Bonman, and X. Xu. Genome-wide association study reveals genetic architecture of coleoptile length in wheat. *Theor Appl Genet*; 11 pp doi:10.1007/s00122-016-2820-1
2016. Carver, B.F., C.M. Smith, W-P. Chuang, R.M. Hunger, J.T. Edwards, L. Yan, G. Brown-Guedira, B.S. Gill, G. Bai, and R.L. Bowden. Registration of OK05312, a high-yielding hard winter wheat donor of *Cmc4* for wheat curl mite resistance. *Journal of Plant Registrations* 10:75-79
2014. Hunger, R.M., J.T. Edwards, R.L. Bowden, L. Yan, P. Rayas-Duarte, G. Bai, G.W. Horn, J.A. Kolmer, K.L. Giles, M.-S. Chen, Y. Jin, R.D. Osburn, M.B. Bayles, B.W. Seabourn, A.R. Klatt, and B.F. Carver. 'Billings' wheat combines early maturity, disease resistance, and desirable grain quality for the southern Great Plains, USA. *Journal of Plant Registrations* 8:22-31 (doi10.3198/jpr2012.11.0053crc)
2014. DeVuyst, E.A., Edwards, J., Hunger, B., and Weaver, L. Insecticide and fungicide wheat seed treatment improves wheat grain yields in the U.S. Southern Plains. *Crop Management* 13(1):1-5 (doi:10.2134/CM-2013-0039-RS)
2014. Thompson, N.M., J.T. Edwards, R.M. Hunger, and F. Epplin. Economics of foliar fungicides for hard red winter wheat in the USA Southern Great Plains. *Crop Protection* 59:1-6
2013. Abd-Elmagid, A., P.A. Garrido, R. Hunger, J.L. Lyles, M.A. Mansfield, B.K. Gugino, D.L. Smith, H.A. Melouk, and C.D. Garzon. Discriminatory simplex and multiplex PCR for four species of the genus *Sclerotinia*. *Journal of Microbiological Methods* 91:293-300
2012. Edwards, J.T., Hunger, R.M., Smith, E.L., Horn, G.W., Chen, M-S., Yan, L., Bai, G., Bowden, R.L., Klatt, A.R., Rayas-Duarte, P., Osburn, R.D., Giles, K.L., Kolmer, J.A., Jin, Y., Porter, D.R., Seabourn, B.W., Bayles, M.B., and Carver, B.F. 'Duster' wheat: A durable, dual-purpose cultivar adapted to the southern Great Plains of the USA. *Journal of Plant Registrations* 6:1-12
2012. Edwards, J.T., Hunger, R.M., and Payton, M.E. Agronomic and economic response of hard red winter wheat to foliar fungicides in the southern Plains. *Crop Management* doi: 10.1094/CM-2012-0730-01-RS
2011. Zhang, D., Bai, G., Hunger, R.M., Bockus, W.W., Yu, J., Carver, B.F., and Brown-Guedira, G. Association study of resistance to *Soilborne wheat mosaic virus* in U.S. winter wheat. *Phytopathology* 101:1322-1329

2010. Sreedharan, A., Hunger, R.M., Singleton, L.L., Payton, M.E., and Melouk, H.A. Pathogenicity of *Rhizoctonia* spp. isolated from wheat and peanut on hard red winter wheat. *International Journal of Agricultural Research* 5(3):132-147
2010. Shuanghe, C., Carver, B.F., Xinkai, Z., Fang, T., Chen, Y., Hunger, R.M., and Yan, L. A single nucleotide polymorphism that accounts for variation in the Lr34 gene and leaf rust reaction in hard winter wheat. *Theoretical and Applied Genetics* 121:385-392.
2010. Morris, J.F., Carver, B.F., Hunger, R.M., and Klatt, A.R. Greenhouse assessment of seedling reaction to tan spot in synthetic hexaploid wheat. *Crop Science* 50:952-959
2009. Chen, Y., Hunger, R.M., Carver, B.F., Zhang, H., and Yan, L. Genetic characterization of powdery mildew resistance in U.S. hard winter wheat. *Molecular Breeding* 24:141-152
2008. Carver, B.F., Hunger, R.M., Edwards, J.T., Rayas-Duarte, P., Klatt, A.R., Porter, D.R., Seabourn, B.W., Bai, G.-H., Dowell, F.E., Yan, L., and Martin, B.C. Registration of 'Guymon' wheat. *J. Plant Registrations* 2:33-35
2007. Carver, B.F., Krenzer, E., Hunger, R.M., Porter, D., Smith, E.L., Klatt, A., Verchot-Lubicz, J., Bai, G., Rayas-Duarte, P., Guenzi, A., Bai, G., and Martin, B. 'OkField' hard red winter wheat. *Journal of Plant Registrations* 1:102-103
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Summary of selected extension and non-refereed publications:

Present-1996 (with ~20% extension appointment):

- Present-1985. Contributor to, "Comparison of winter wheat varieties grown in cooperative nursery experiments in the hard red winter wheat region." R. Graybosch, ed., USDA-ARS, Lincoln, NE
- Present-1996. OSU Extension Agent's Handbook of Insect, Plant Disease, and Weed Control. OCES pub. E-832. (Revise & update cereal grain section annually)
- Present-1995. Contributor to, "Partners in Progress. . . Wheat Research at OSU," Oklahoma Agricultural Experiment Station, Oklahoma State University, Stillwater, OK

- Present-1995. Contributor to, "Plant Disease & Insect Advisory," 10-15 submissions/year
(<http://www.entopl.okstate.edu/Pddl/advisory.htm>)
- Present-2004. Contributor to, "Oklahoma Small Grains Variety Performance Tests," Edwards, J., et al. OCES publication CR-2143
- Present-2000. Contributor to, "Wheat Variety Comparison Chart," Edwards, J., R.M. Hunger, B. Carver, and T. Royer OCES-PSS-2142
2015. Foliar fungicides and wheat production in Oklahoma – April, 2015; Hunger, B., and J. Edwards, J. OCES CR-7668 (updated annually since 2009)
2013. Wheat streak mosaic, high plains disease, and Triticum mosaic: Three virus diseases of wheat in Oklahoma. Hunger, B., R. Kochenower, T. Royer, J. Olson, and J. Edwards. OCES EPP-7328
2012. Effect of planting date and seed treatment on diseases and insect pests of wheat; Hunger, B., Edwards, J., Royer, T., and Giles, K. OCES publication CR-7088 (updated annually since 2010)
2009. Fusarium head blight (head scab) of wheat: Questions and answers; Edwards, J., and B. Hunger. OCES publication PSS-2145
2009. Split versus single applications of fungicides to control foliar wheat diseases; Edwards, J., and Hunger B. OCES publication PSS-2138
2008. Considerations when rotating wheat behind corn; Edwards, J., and Hunger, B. OCES Publication PSS-2136
2007. Disease Management; Chapter 9 in, "No-till Cropping Systems in Oklahoma," OCES publication E-996
2006. Protein Content of Winter Wheat Varieties in Oklahoma; Edwards, J., Kochenower, R., Austin, R., Inda, M., Carver, B., and Hunger, R. OCES publication PT-2006-9
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- OSU/OCES Disease Informational Sheets:
<http://www.entopl.okstate.edu/ddd/hosts/wheat.htm>):
- 2004. Wheat streak mosaic and high plains viruses in Oklahoma
 - 2002. Take-all root rot of wheat
 - 2002. Strawbreaker (footrot or eyespot) of wheat
 - 2002. Root rots of wheat in Oklahoma
 - 2001. Comparison of loose smut, common bunt, & Karnal bunt of wheat
 - 2000. Barley yellow dwarf virus: Disease cycle, symptoms, and control
2004. Grain yield from wheat variety trials 2003-2004, Krenzer, G., Kochenower, R., Hunger, R., Austin, R., and

Bellinghausen, K. PT2004-8 16(8):24pp

2003. Disease resistant wheat varieties – the opportunity for cooperation. R. Hunger, Oklahoma Wheat Brief (publication by the Oklahoma Wheat Commission), 5(2):3
- 2003-1996. Results of Plant Disease Control Field Studies, Research Report P-979, OAES-OSU, Stillwater, (annual publication, K.E. Jackson, primary author)
2002. Planting date affects wheat disease incidence & severity; The Inside Scoop (Oklahoma wheat producer's newsletter)
- 2002-1983. Contributor to, "Annual Wheat Newsletter," (vols. 47-29). Wheat Genetics Resource Center, Kansas State University, Manhattan, KS
2001. Managing wheat for quality. Krenzer, G., Anderson, K., Edwards, L., Hunger, B., Peeper, T., Phillips, T., and Rayas, P.; OSU-OCES
2000. Wheat Management in Oklahoma; A Handbook for Oklahoma's Wheat Industry. T. Royer and G. Krenzer, eds., OCES pub. E-831. (Author of disease sections, pages 46-50)
- 2000-1998. Contributor to, "Crop Statement" (published by Department of Entomology & Plant Pathology, T. Royer, ed.; 10 articles
- 1999-1992. Contributor to, "Comparison of winter wheat varieties grown in cooperative nursery experiments in the hard red winter wheat region," C.J. Peterson, ed., USDA-ARS, Lincoln, NE
- 1998-1983. Contributor to the Annual Report of Small Grains Experiments. OSU Wheat Breeding Program, Oklahoma State University, Stillwater, OK 74078
- 1997-1996. Contributor to, "Helping Out Oklahoma Wheat Producers Newsletter" (published by Dept. Plant & Soil Sci., 1997-96), 7 articles
- Prior to 1996 (no official extension appointment):***
1992. Celebrating one hundred years of continuous soil fertility research on wheat. OAES pub. 92-2, 41 pp.
-Developing disease resistant wheat germplasm. Hunger, et al., pp. 22-23
-Investigations of tan spot of wheat. Hunger, et al., p. 25
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-Wheat cultivars resistant to leaf rust and WSBMV. Hunger, et al., pp. 22-24
-WSMV & development of resistant germplasm. Hunger et al., pp. 25-27
-Wheat variety development. Smith, et al., pp. 7-12
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1989. Proceedings of the Hard Red Winter Wheat Breeders Field Tour, Stillwater, OK
-Testing for resistance to wheat leaf rust, pp. 11-13
-Incorporating disease resistance into the OSU wheat breeding program, 18-19
1987. Proceedings of the North Central Research Station Field Day. OSU-OAES publication, 53 pp
-Wheat variety development in Oklahoma. Smith, et al., p. 13
-Resistance to WSBMV, WSMV, and WSSMV. Hunger & Sherwood, pp. 29-30
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1982. Hunger, R.M. and Horner, C.E. Ridomil: control for hop disease. Modern Brewery Age 33:7-9,32
1981. Hunger, R.M., Hamm, P.B., Horner, C.E., and Hansen, E.M. Tolerance by *Phytophthora megasperma* isolates to metalaxyl (Ridomil). Phytophthora Newsletter 9:64