

CURRICULUM VITAE

DR. DANIEL JAMES COLLINS
Plant Pathologist
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College of Agricultural, Family and Consumer Sciences
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EDUCATION

- 1983-1988 University of Missouri-Columbia, Columbia, MO
Ph. D., Plant Pathology, August 1988
Dissertation title: Biological Activity of *Macrophomina phaseolina* in Soil.
- 1981-1983 Alabama A&M University, Normal, AL
M. S. - Soil and Plant Science, July 1983
Area of emphasis - Plant Pathology
Masters Thesis title: Races of *Phytophthora megasperma* f. sp. *glycinea* (Phytophthora Root Rot of Soybeans) in Northern Alabama.
- 1976-1981 Jackson State University, Jackson, MS
B. S. - Biology, May 1981

EXPERIENCE

1999 – Present **Southern University, Baton Rouge, LA**

2006- Present **Professor and Director of Graduate Studies Urban Forestry.**

2001 - 2005 **Associate Professor Urban Forestry and Interim Program Leader Urban Forestry** - Administrative responsibilities include the planning and management of the instructional, research, extension, and outreach activities of the Urban Forestry Program. Teaching and research responsibilities involves Urban Forestry Pathology. Research activities are concentrating on developing biologically intensive IPM strategies for managing soilborne and foliar pathogens of trees, biological control of plant pathogens, and sustainable agriculture.

1998 – 1999

Oakwood College, Huntsville, AL

Assistant Professor - Taught the following courses: Biology 101, Ecology Special Problem-Biology 424, and Introduction to Research-Biology 204. Research studies focused on electrochemistry of soybean.

1990 - 1996

Auburn University, Auburn, AL

Assistant Professor - Joint extension/research appointment working on forage and small grain pathology. Research activities concentrated on developing sustainable strategies for managing soilborne diseases of forage and small grain crops. Studies have included evaluation of biological control, crop rotation and tillage practices, soil solarization, and organic amendments for control of soilborne diseases of lupin and wheat. Biological and cultural control of soilborne diseases of vegetables also investigated.

1988-1989

Agricultural Research Service/USDA, Beltsville, MD

Research Plant Pathologist/Postdoctoral Research Associate - in the lab of Dr. George C. Papavizas. Studied the mechanism of action of *Gliocladium virens* as a biological control agent for *Sclerotium rolfsii*.

1983-1988

University of Missouri-Columbia, Columbia, MO

Graduate Research Assistant - Investigated the soil ecology of *Macrophomina phaseolina*. Quantified microsclerotial germination of *M. phaseolina* in rhizosphere and nonrhizosphere soils. Determined the effects of soil temperature and soil water potential on microsclerotial germination. Developed techniques for observing microsclerotial germination and behavior in soil and rhizosphere of soybean.

1981-1983

Alabama A&M University, Normal, AL

Graduate Research Assistant - Conducted a survey of Phytophthora root rot of soybean in three counties of northern Alabama. Isolated Phytophthora megasperma f. sp. glycinea from soil and root samples and determined physiologic races. R2 and RII were identified.

AWARDS AND HONORS

- 2006 Selected as Participant in National Conference on Future of Forest Research and Education for the 21st Century , Shepardtwn , West Virginia
- 2000 Travel Grant Office of Research “ Research Exchange visit to the University of Geulph, Ontario, and McGill University, Quebec, Canada
- 1998 Best Paper Award, American Society for Plasticulture, Co-author on paper entitled: "Reduction of Tomato Early Blight by Combining Soil Solarization and Biological Control Strategies."
- 1996 Recipient of a National Research Council Collaborative Research in Sectoral Policy Fellowship for Research Exchange visit to the Agricultural University of Poznan, Poland.
- 1995 Travel award from Vice President for Research, Auburn University, to present paper at 2nd European Conference on Grain Legume Research, Copenhagen, Denmark, July, 1995.
- 1993 Letter of Commendation from the Director of the Alabama Cooperative Extension Service for Work on Alabama Wheat Disease Newsletter.

- 1992 School of Agriculture and Home Economic Distinguished Alumni Award, Alabama A&M University.
- 1984 Selected as an Outstanding Young Man of America.
- 1983 Recipient of a Graduate and Professional Opportunities Program Fellowship for the Doctor of Philosophy degree at the University of Missouri-Columbia.
- 1981 Recipient of a Graduate and Professional Opportunities Program fellowship for the Masters of Science Degree at Alabama A & M University.

AFFILIATIONS

American Phytopathological Society

Forest Pathology Committee American Phytopathological Society

National Association of Forest Resource Programs- Southern University Representative

Biological Control Institute, Auburn University

International Lupin Association

S-269 Regional Research Project: Biological Control and Management of Soilborne Plant Pathogens for Sustainable Crop Production.

Graduate Students

MAJOR PROFESSOR FOR THE FOLLOWING MASTER'S STUDENT:

Cole, Charles, 2005. Sudden Oak Death of Oak. M.S. Capstone Project. Southern University and A&M College.

Fountain, Sherry, 2003. Ecology and Epidemiology of Soilborne Disease of Trees. Southern University and A&M College, Baton Rouge, LA.

Williams, Shane 2002. Biological Control of Root Diseases of Trees. M. S. Capstone Project. Southern University and A&M College, Baton Rouge, LA.

Chen, C. 1994. Root diseases of wheat in Alabama and selection of root-associated bacteria as biological control agents. Auburn University. 62 pp. Mr. Chen is currently a Ph.D. student, McGill University, Quebec, Canada.

COMMITTEE MEMBER FOR THE FOLLOWING MASTER'S STUDENTS:

Noffsinger, S.L. 1993. Evaluating the potential of white lupin for the state of Alabama. Auburn University. 107 pp. Currently Ph.D. candidate Auburn University.

Pin, J. 1992. Identification and distribution of soilborne wheat mosaic virus in wheat in Alabama. Auburn University. 87 pp.

Sakhanoko, H. 1995. Evaluation of red clover for Alabama. Auburn University. 110 pp.

COMMITTEE MEMBER FOR THE FOLLOWING Ph.D. STUDENTS:

Chavarria, J. A. 1995-96. Organic amendments for control of phytopathogenic nematodes. Auburn University.

Blum, L. 1995-96. Evaluation of organic amendments for control of soilborne fungal pathogens. Auburn University.

PUBLICATIONS

Publications in Refereed Journals

Collins, D. J. 2005. Urban Forestry Outreach Activities to K-12 School at Southern University. Society of American Foresters, Annual Meeting Ft. Worth, TX.

Collins, D. J. 2004. Oak Decline. Southern University Agricultural Research and Extension Center. Extension Circular ANR-301.

Collins, D. J., Morgan-Collins, D. J., Qi, Y. , and Bandele, O. 2004. Plant Pathology Education, Extension and Outreach at Southern University and A&M College. *Phytopathology* 94:S20. Publication no. P-2004-0130-AMA.

Stevens, C., V. A. Khan, Rodriguez-Kabana, Ploper, L.D., Backman, P.A., Collins, D.J., Brown, J.E., Wilson, M.A., and Igwegbe, E.C.K. 2003. Integration of soil solarization with chemicals, biological, and cultural control for the management of soilborne diseases of vegetables. *Plant and Soil: Plant and Soil*: 253:493-506

Moore, M., Collins, D.J., Kakar, R.S., Negatu, A., and Nash, M. 2003. Effects of Organic Amendments and Biological Seed Treatments for Suppression of *Rhizoctonia* Hypocotyl Rot of Cowpea (*Vigna unguiculata* cultivar Mississippi Purple). Association of 1890 Research Directors 13th Biennial Research Symposium, Atlanta, GA , March 29-April 2, 2003.

Collins D. J., Abdollahi, K. Johnson, A. Namwamba, F., Qi, Y, and Stone 2003. Encouraging Minorities to Enroll and Graduate in Urban Forestry at Southern University–Baton Rouge. Association of 1890 Research Director 13th Biennial Research Symposium, Atlanta, GA , March 29-April 2, 2003.

Collins, D. J., Luzena, V., Morgan-Collins, and Jones, I. 2003. Schools Gardens as Means of Exposing Inner City Elementary Students to Careers in Agriculture. Association of 1890 Research Directors 13th Biennial Research Symposium, Atlanta, GA , March 29-April 2, 2003.

Brown, J.E , Lu, T.Y.,, Stevens, C., Khan, V.A., Lu, J.Y., Wilson, C.L., Collins, D.J. Wilson, M.A., Igwegbe, E.C.K, Chalutz, E., and Dorby, S. 2001. The effect of low dose ultraviolet light-C seed treatment on induced resistance in cabbage to black rot (*Xanthomonas campestris* pv. *campestris*). *Crop Protection* 20:873-883

Mwesigwa, J., Collins, D. J., and Volkov, G. 2000. Electrochemical signaling in green plants: effects of 2,4-dinitrophenol on variation and action potential in soybean. *Bioelectrochemistry* 51:201-205

Volkov, A., Collins, D. J., and Mwesigwa, J. 2000. Plant electrophysiology: pentachlorophenol induces fast action potential in soybean. *Plant Science* 153:185-190.

Khan, V. A., Stevens, C., Wilson, M., Brown, J., Collins, D. J., Lu, J., and Rhoden, E. G. 2000. Evidence of rhizobacteria changes associated with the increased growth response of

vegetables grown in agrimulch systems. *Journal of Vegetable Crop Production*. Vol. 6 (1) 53-73.

Stevens, C. Khan, V., Wilson, M. A., Brown, J. A., and Collins, D. J. 1999. Use of thermofilm-IR single layer and double layer soil solarization to improve solar Heating in a cloudy climate. *Plasticulture* 118:20-34.

Khan, V. A., Stevens, C., Lu, J. Y., Mafolo, T., Rhoden, E. G., Wilson, M. A., Brown, J. A., and Collins, D.. 1998. Evidence of soil microflora change associated with increased growth response of vegetables grown on agrimulch systems. In: Ben-Yehoshua, S., Aloni, B., Grinstein, Shmuelovich, I., and Al Calay (editors) CIPA Proceedings International Congress for Plastics in Agriculture Tel Aviv, Israel – March, 1997 (pp:207-215) Laser Pages Publishing Ltd., Jerusalem, Israel

Chen, C., Collins, D. J., and Morgan-Jones, G. 1996. Fungi Associated with root rot of winter wheat in Alabama. *Journal of Phytopathology* 144:193-96.

van Santen, E. and Collins, D. J. 1991. Genetic diversity in tall fescue ecotypes from Alabama I. maturity, morphological traits, and disease reaction. *Plant Breeding* 107:210-217.

Collins, D. J., Wyllie, T. D., and Anderson, S. H. 1991. Biological activity of *Macrophomina phaseolina* in soil. *Soil Biology and Biochemistry* 23:495-496.

Kloepper, J. W., Rodríguez-Kábana, R., McInroy, J.A., and Collins, D. J. 1991. Analyses of populations and physiological characterization of microorganisms in rhizospheres of plants with antagonistic properties to phytopathogenic nematodes. *Plant and Soil* 136: 95-102.

Papavizas, G. C., and Collins, D. J. 1990. Influence of *Gliocladium virens* on germination and infectivity of sclerotia of *Sclerotium rolfsii*. *Phytopathology* 80:627-630.

Collins, D. J., Pacumbaba, R. P., and Sapra, V. T. 1985. Races of *Phytophthora megasperma* f. sp. *glycinea* (*Phytophthora* Rot) affecting soybeans in North Alabama. *Phytopath. Z.* 113:43-46.

Lu, T.Y., Brown, J.E., Stevens, C., Khan, V.A., Lu, J.Y., Wilson, C.L., Collins, D.J., Wilson, M.A., Igwegbe, E.C.K, Chalutz, E., and Dorby, S. 1998. The effect of low dose ultraviolet light-C seed treatment on induced resistance to black rot (*Xanthomonas campestris* pv. *campestris*) in cabbage. *J. Seed Technology*

Published Proceedings

Stevens, C., Khan, V.A., Ploper, L.D., Backman, P., Rodríguez-Kábana, Collins, D.J., Brown, J.E., Wilson, M.A., Igwegbe, E.C.K., 1997. The use of plasticulture methodologies and biofungicide to induce resistance to control early blight in tomato. International Congress for Plastics in Agriculture, March 9-14 1997, Tel-Aviv, Israel.

Khan, V.A., Stevens, C., Wilson, M.A., Brown, J.E., Collins, D.J., Lu, J.Y., Mafolo, T., and Rhoden, E.G. 1997. Evidence of soil microflora changes associated with increased growth response of vegetables grown on agrimulch systems. International Congress for Plastics in Agriculture, March 9-14 1997, Tel-Aviv, Israel.

Szukala, J., Collins, D. J., and Reeves, D. W. 1996. Effects of soil phosphorus levels and fungicide seed treatments on *Pleiochaeta* root rot of *Lupinus albus*. Eighth International Lupin Conference, May 11-16, 1996 Pacific Grove, California.

Collins, D. J., Burch, K., and Williamson D. 1996. Pearl millet stubble mulch and iprodione seed treatment control brown spot of *Lupinus albus*. Eighth International Lupin Conference, May 11-16, 1996 Pacific Grove, California.

Stevens, C., Khan, V., Rodriguez-Kabana, R., Collins, D. J., Brown, J. E., and Wilson, M. A. 1996. Effect of soil solarization and chicken litter amendment on root-knot, white grub damage, storage rot control and growth response of sweetpotatoes. Proceedings 26th National Agricultural Plastics Congress and the American Greenhouse Vegetable Growers Association Conference, Atlantic City, New Jersey. 26:67-70.

Stevens, C., Khan, V. A., Ploper, L. D., Backman, P., Rodriguez, R., Collins, D. J., Brown, J. E., Wilson, M. A., and Igwegbe, E. C. K. 1996. Reduction of tomato early blight by combining soil solarization and biological control strategies. Proceedings 26th National Agricultural Plastics Congress and the American Greenhouse Vegetable Growers Association Conference, Atlantic City, New Jersey. 26:72-76.

Collins, D.J., Stevens, C., Khan, V., Nightengale, S., and van Santen, E. 1995. Soil solarization, soil amendments, and seed treatments increase lupin yield. Proceedings of the 2nd European Conference on Grain Legumes, Copenhagen, Denmark July 9-13, 1995. Vol. 2:190.

Khan, V., Stevens, C., Wilson, M.A., Collins, D.J., Lu, J.Y., and Mafolo, T. 1994. Relationship between rhizosphere microflora and increased growth

response of crimson sweet watermelons grown on clear and black plastic mulch plus VisPore row cover. Proceedings of the 25th National Agricultural Plastic Congress American Society for Plasticulture 25:122-129

Stevens, C., Khan, V., Brown, J. E., Ploper, L.D., Collins, D. J., Wilson, M. A., Rodríguez-Kábana, and Curl, E. A. 1993. The influence of soil solarization on reducing foliage diseases as related to changes in the soil rhizosphere microflora. Proceedings of the 24th National Agricultural Plastics Congress, American Society for Plasticulture. 24:170-188.

Stevens, C., Khan V., Wilson, M.A., Ploper L. D., Backman, P.A., Brown, J. E., Rodríguez-Kábana, and Collins, D. J. 1993. Evaluation of black plastic mulch and row cover on the control of *Alternaria* foliage diseases of vegetables. Proceedings of the 24th National Agricultural Plastics Congress, American Society for Plasticulture. 24:88-101.

Gudauskas, R. T., and Collins, D. J. 1991. Management of wheat diseases in Alabama. Proceedings of The Southern Small Grain Workers' Conference, Overton, Texas, April 28-30, 1991. page 11. R. Nelson and M. MacDaniel editors Texas A&M University.

Fungicide and Nematicide Tests

Collins, D. J., Burch, K. B., Carden, E. L., and Pegues, M. D. 1995. Evaluation of baytan and dividend seed treatment and foliar fungicides for control of leaf rust and septoria leaf blotch of wheat. Fungicide and Nematicide Tests. American Phytopathological society. Vol. 51:IN PRESS.

Collins, D. J., Burch, K. B., Carden, E. L., and Pegues, M. D. 1995. Evaluation of foliar fungicides for control of foliar diseases of wheat. Fungicide and Nematicide Tests. American Phytopathological Society. Vol. 51:IN PRESS.

Collins, D. J., Carden, E. L., and Pegues, M. D. 1994. Evaluation of foliar fungicides for control of foliar diseases of wheat. Fungicide and Nematicide Tests. American Phytopathological Society. Vol. 50:224.

Collins, D. J., Carden, E. L., and Pegues, M. D. 1994. Evaluation of baytan seed treatment and foliar fungicide for control of foliar diseases of wheat. Fungicide and Nematicide Tests. American Phytopathological Society. Vol. 50:225.

Biological and Cultural Tests for Control of Plant Diseases

Collins, D. J., Burch, K. B., and Nightengale, S. 1995. Effects of pearl millet mulch on *Pleiochaeta* root rot of lupin. Biological and Cultural Tests for Control of Plant diseases. American Phytopathological Society. Vol. 11:IN PRESS.

Collins, D. J., Burch, K. B., and Moore, D. 1995. Reaction of wheat cultivars to soilborne wheat mosaic. Biological and Cultural Tests for Control of Plant Diseases. American Phytopathological Society. Vol. 11:IN PRESS.

Collins, D. J., Burch, K. B., Glass, K. M., and Bransby, D. I. 1995. Reaction of wheat cultivars to leaf rust and Septoria. *Biological and Cultural Tests for Control of Plant Diseases*. American Phytopathological Society. Vol. 11:00 IN PRESS.

Collins, D. J., Burch, K. B., Glass, K. M., and Bransby, D. I. 1995. Reaction of oat cultivars to crown rust. *Biological and Cultural Tests for Control of Plant Diseases*. American Phytopathological Society. Vol. 11:IN PRESS.

Collins, D. J., Reeves, D. W., and van Santen, E. 1994. Effects of lupin/wheat rotation and tillage on brown spot of lupin. *Biological and Cultural Tests for Control of Plant Diseases*. American Phytopathological Society. Vol. 10:27.

Collins, D. J., Stevens, C., Khan, V., and Nightengale, S. 1994. Effects of soil solarization and seed treatments on soilborne diseases of lupin. *Biological and Cultural Tests for Control of Plant Diseases*. American Phytopathological Society. Vol. 10:28.

Collins, D. J., Burch, K. B., Glass, K. M., and Bransby, D. I. 1994. Reaction of wheat cultivars to leaf rust and Septoria leaf blotch in Alabama. *Biological and Cultural Tests for Control of Plant Diseases*. American Phytopathological Society. Vol. 10:119

Collins, D. J., Burch, K. B., and Moore, D. M. 1994. Reaction of Wheat cultivars to soilborne wheat mosaic. *Biological and Cultural Tests for Control of Plant Diseases*. American Phytopathological Society. Vol. 10:125.

Papers Presented at Scientific Meetings with Published Abstracts.

Collins, D. J., Burch, K., Reeves, D. W., and van Santen, E. 1996. Effects of crop rotation and tillage on lupin seedling diseases. To be presented at American Phytopathological Society annual meeting, Indianapolis, Indiana.

Collins, D. J., Burch, K., Rodríguez-Kábana, R., and Howliger, A. R. 1995. An alginate film technique for studying the soil ecology of *Pleiochaeta setosa* in soil. American Phytopathological Society Annual Meeting, Pittsburgh, PA (Abst. *Phytopathology* 85:1205).

Chen, C., and Collins, D. J. 1995. Screening of indigenous isolated bacteria for biological control of take-all of wheat in Alabama. American Phytopathological Society Southern Division Meeting, New Orleans, LA (Abst. *Phytopathology* 85:509).

Collins, D. J., Reeves, D. W., and van Santen, E. 1995. Effects of lupin/wheat rotation and tillage on brown spot of lupin. American Phytopathological Society Annual Meeting, Pittsburgh, PA (Abst. *Phytopathology* 85:1170).

Stevens, C., Khan, V. A., Ploper, L. D., Backman, P., Rodríguez-Kábana, R., Collins, D. J., Brown, J. C., and Wilson, M. A. 1995. Reduction of tomato early blight by combining soil solarization and biological control strategies. American Phytopathological Society Annual Meeting, Pittsburgh, PA (Abst. Phytopathology 85:in press).

Collins, D. J., Stevens, C., Khan, V., and Nightengale, S. 1994. Effects of soil solarization, chicken litter, rival seed treatment, and *Bacillus subtilis* on stand establishment and seedling diseases of lupin. American Phytopathological Society Annual Meeting, Albuquerque, New Mexico (Abst. Phytopathology 84:1114)

Collins, D. J., Stevens, C., and Khan, V. A. 1993. Effects of soil solarization on southern blight of lupins. American Phytopathological Society Southern Division Meeting, Tulsa, Oklahoma (Abst. Phytopathology 83:465).

Collins, D. J., Chen, C., and Dalrymple, L. 1993. Fungi associated with root and crown rot of winter wheat in Alabama. American Phytopathological Society Annual Meeting, Nashville, Tennessee (Abst. Phytopathology 84:1388).

Jin, P., Gudauskas, R. T., Collins, D. J., Burch, K. B., Hagan, A. K., and Mask, P. 1992. Identification and distribution of soilborne wheat mosaic virus in Alabama. American Phytopathological Society Annual Meeting, Portland, Oregon (Abst. Phytopathology 82:1073).

Stevens, C., Khan, V. A., Collins, D. J., Rodríguez-Kábana, Ploper, L.D., Adeyeye, O., Brown, J., and Backman, P. 1992. Use of soil solarization to reduce the severity of early blight, southern blight and root-knot in tomatoes. American Phytopathological Society Southern Division Meeting, Lexington, Kentucky (Abst. Phytopathology 82:500).

Collins, D. J. and G. C. Papavizas 1990. Mycoparasitism of *Sclerotium rolfsii* sclerotia by *Gliocladium virens*. American Phytopathological Society Annual Meeting, Grand Rapids, Michigan. (Abst. Phytopathology 80:994).

Papavizas, G. C., and Collins, D. J. 1989. System to test germinability and infectibility of sclerotia of *Sclerotium rolfsii*. Third International *Trichoderma* and *Gliocladium* Workshop, Ithaca, NY. August 1989.

Collins, D. J. and Wyllie, T. D. 1988. Biological activity of *Macrophomina phaseolina* in soil. American Phytopathological Society Annual Meeting, San Diego, California. (Abst. Phytopathology 78:1577).

Collins, D. J., and Wyllie, T. D. 1987. Quantification of microsclerotial germination of *Macrophomina phaseolina* in the rhizosphere of soybean. American Phytopathological Society Annual Meeting, Cincinnati, Ohio (Abst. Phytopathology 77:1716).

Collins, D. J., Pacumbaba, R. P., and Sapra, V. T. 1984. Races of *Phytophthora megasperma* f. sp. *glycinea* Phytophthora root rot of soybeans in northern Alabama. American Phytopathological Society Annual Meeting, Guelph, Ontario, Canada (Abstr. Phytopathology 74:84).

Alabama Agricultural Experiment Station Publications

Collins, D. J., and Burch, K. B. 1995. Disease Ratings in: The 1995 Alabama Performance of Small Grain Varieties. Alabama Agricultural Experiment Station, Auburn University. No. 190:25-31.

Collins, D. J. 1994. Disease Ratings in: The 1994 Alabama Performance of Small Grain Varieties. Alabama Agricultural Experiment Station, Auburn University. No. 181:29-36.

Chen, C., Collins, D. J., and Morgan-Jones, G. 1994. Fungi affecting Alabama's winter wheat. Highlights of Agricultural Research 41:15.

Collins, D. J., Stevens, C., and Khan, V. A. 1993. Effects of soil solarization on southern blight of lupins. Grain Crop Research Update. Alabama Experiment Station, Auburn University.

Gudauskas, R. T., Jin, P., and Collins, D. J. 1993. Soilborne virus widespread in wheat. Grain Crop Research Update. Alabama Agricultural Experiment Station, Auburn University.

Gudauskas, R. T. and Collins, D. J. 1993. Disease ratings included in variety reports. Grain Crop Research Update. Alabama Agricultural Experiment Station, Auburn University.

Bowen, K. L., Collins, D. J., and Mask, P. L. 1992. Pesticides evaluated for scab epidemic on wheat. Grain Crop Research Update. Alabama Agricultural Experiment Station, Auburn University.

Jin, P., Gudauskas, R. T., Collins, D. J., Hagan, A. K., Mullen, J. M., and Mask, P. 1992. Soilborne wheat mosaic in Alabama. Highlights of Agricultural Research 39:9

Invited Research Presentations

National

Presented research progress report at Second Joint Regional Project meeting, NC-125, S-269, W-147 "A Festival of Enthusiasm for Biological Control II", San Diego, CA, October, 1996.

Presented research progress report to S-269 Regional Research Committee "Biological Control and Management of Soilborne Plant Pathogens for Sustainable Crop Production", St. Louis MO, November 1995.

Presented a seminar on "Biological Control of Lupin and Wheat Diseases", Southern College, Chattanooga, Tennessee, September, 1994.

Presented Seminar on "Biological Control of Plant Diseases", Howard University, Department of Botany, Washington, D. C., March, 1989.

Presented Seminar on "The Soil Ecology of *Macrophomina phaseolina*", Alabama A & M University, Department of Soil and Plant Science, Huntsville, Alabama, May 1989.

Presented Seminar on "Biological Control of Soilborne Diseases" Clemson University, Clemson, South Carolina Department of Plant Pathology and Physiology, October, 1989.

International

Presented seminar on "Lupin Disease Management" Institute for Plant Diseases and Plant Protection, University of Hannover, Hannover Germany, June, 1996.

Presented seminar on "Integrated Lupin Disease Management" Department of Plant and Soil Cultivation, Agricultural University of Poznan, Poland, June, 1996.

Presented seminar on "Integrated Lupin Disease Management" Polish Lupin Association meeting Agricultural University of Olsztyn, Olsztyn, Poland, June, 1996.

Presented a paper on "Soil Solarization, Soil Amendments, and Seed Treatments Increase Lupin Yield" Royal Veterinarian and Agricultural University, Copenhagen, Denmark, July, 1995.

Presented seminar on "Lupin and Wheat Disease Management in Alabama", Agricultural Research Institute, Wagga Wagga, New South Wales, Australia, July, 1994.

Presented seminar on "Lupin and Wheat Disease Management in Alabama", Department of Agriculture Western Australia, Perth, Western Australia, July 1994.

Grants and Contracts

2006 \$15,000 Hazardous Tree Workshop USDA Forest Service
 \$11,137 Renewable Resources Extension Act Urban Forestry

2005 \$11,250 Renewable Resources Extension Act Urban Forestry

\$5,000 USDA Cultural Diversity Social and Tour SOUTHERN UNIVERSITY

2003 \$20,000 Urban Forestry Summer Institute, USDA Forest Service

2002 \$50,000 USDA Forest Service National Urban and Community Outreach Workshop.

\$50,000 Ford Foundation National Urban and Community Forestry Outreach Workshop.

2001 \$2,500 Enhancement of the Awareness of Urban Forestry in African American Communities

2000 \$97,000 Departmental Excellence Through Faculty Excellence Louisiana Board of Regents

1996

\$ 6,500 Wheat and Feed Grains Committee for Wheat Disease Management.

\$10,000 Wheat and Feed Grains Committee for Developing the Potential of Lupin as a Grain and Silage crop for the Southeastern United States (with E. van Santen, D. Reeves, etc.).

\$ 2,200 National Research Council Office for Central Europe and Eurasia. Travel to Poland to Develop Agricultural Policy on Sustainable Strategies for Lupin Disease Management for Poland and Alabama.

Grants applied for but not funded:

\$100,000 Alabama Agricultural Experiment Station Special Grants Program for Developing White Lupin for Improved Agronomic Characteristic: An Intergrative Approach (with E. van Sanen, K. Flanders, and J. Qiu).

\$80,000 U. S. Civilian Research and Development Foundation for Joint Project with Biotechnology Innovation Center, Sepukkhoo, Russia, Biological Control Institute for Screening Microbial Strains for control of cereal Diseases (with V. Shevtsov, P. Backman, J. Kloepper, et al).

1995

\$10,500 Wheat and Feed Grains Committee for Developing the Potential of Lupin as a Grain and Silage Crop for the Southeastern United States (with E. van Santen, D. Reeves, R. Rodríguez-Kábana, and S. Tuzun).

\$ 8,800 Wheat and Feed Grains Committee for Survey of Mycotoxin and Mycotoxigenic Fungi in Alabama Wheat, (with R. Shelby).

\$ 5,000 Wheat and Feed Grains Committee for Evaluation of Chemical Fungicides and Host Resistance for Control of Foliar Diseases of Wheat.

\$ 3,000 Gustafson Inc. for Disease Control Studies on Take-all of Wheat and Soilborne Diseases of Lupins.

\$ 1,250 Zenecia Inc. for Evaluation of Foliar Fungicides for Wheat.

\$ 500 Auburn University Research Grant-in-Aid Travel Award to present paper on Soil Solarization, Seed Treatments, and Organic Amendments Increase White Yield at the 2nd European Conference on Grain Legumes, Copenhagen, Denmark, July, 1995.

\$ 500 Auburn University Cooperative Extension Service Travel Award to present paper on Lupin Disease Research at the 2nd European Conference on Grain Legume Research, Copenhagen, Denmark, July, 1995.

1994

\$ 2,144 Alabama Agricultural Experiment Station Travel Grant, matching funds, Lupin Disease Management trip to Australia.

1993

\$ 5,000 Wheat and Feed Grains Committee for Cropping Systems for Management of Wheat Diseases, (with R. Rodríguez-Kábana).

\$ 4,000 Wheat and Feed Grains Committee for Effects and Distribution of Soilborne Wheat Mosaic Virus (with P. Mask).

\$ 2,000 Wheat and Feed Grains Committee for Evaluation of Chemical Fungicides and Host Resistance for control of Foliar Diseases of Wheat.

\$ 2,000 USDA/OICD Lupin Disease Management Travel Grant to Australia.

1992

\$ 5,000 Wheat and Feed Grains Committee for Evaluation of Seed Treatments and Biological Control Agents for of take-all and other soilborne diseases of Wheat.

\$ 2,000 Wheat and Feed Grains Committee for Evaluation of Chemical

Fungicides, Biological agents, and Host resistance for control of Foliar Diseases of Wheat (with R. Gudauskas)

\$ 4,000 Wheat and Feed Grains Committee for Effects and Distribution of Soilborne Wheat Mosaic Virus in Alabama (with R. Gudauskas, and P. Mask).

1991

\$ 2,000 USDA/CSRS High School Research Apprenticeship Program, Summer.

1990

\$ 2,000 USDA/CSRS High School Research Apprenticeship Program, Summer.

\$ 6,000 Wheat and Feed Grains Committee for Intensive Wheat Management Education Workshops (with P. Mask).

\$ 3,500 Wheat and Feed Grains Committee for Management of Soilborne Wheat Mosaic Virus (with R. Gudauskas, and P. Mask).

\$ 20,000 Wheat and Feed Grains Committee for Control of Scab on Wheat (with K. Bowen and P. Mask).

\$ 800 Wheat and Feed Grains Committee for Early Season Control Foliar Diseases on Wheat (with P. Mask).

\$ 500 Mobay Corporation for Support of Wheat Disease Research.

\$109,194 = 5.5 yr Total

EXTENSION PROGRAM

Extension Teaching

Terra Employee In-Service Training, Auburn University, Auburn, Alabama, 1994. Provided training on forage and small grain disease management.

County Agent In-Service Training, Auburn University, Auburn, Alabama, 1994. Presented two workshops: 1) Plant Disease Identification, and 2) Forage and Small Grain Disease Management.

Certified Crop Advisory Training, Fairhope, AL 1994. Training provided to county agents and agribusiness personnel on proper plant disease identification and management.

County agent training in Baldwin, Chambers, Henry, Houston, Montgomery, Delkab, Macon, Limestone, and Madison Counties, 1993. Instructed agents in identification of wheat diseases and disease management using biological, cultural, and chemical control measures.

Gulf Coast Small Grain Field Day, Fairhope, AL. 1992. Presented workshop on wheat disease management to wheat growers, county agents, and agribusiness personnel.

Wheat Disease Survey with County Agents in Houston and Montgomery Counties, 1992. Assisted county agents and wheat growers in wheat disease identification, and selection of proper control measures.

Forage Disease Survey in Chambers County, 1992. Instructed county agent and cattlemen in disease identification in forage grasses and legumes and management.

Conducted Wheat Disease Workshop, Dothan and Summerdale, AL, 1991.

A series of fall workshops for growers, county agents, and agribusiness personnel on selection of disease resistant wheat varieties, crop rotations, and proper fungicide use and application for disease control.

1991. Intensive Wheat Management Workshop, Summerdale and Huntsville, AL. Co-chairperson of a series of workshops for farmers, county agents, and agribusiness personnel dealing with wheat fertility, diseases, insects, and production for maximum economic yield.

Conducted Wheat Disease Workshops, Belle Mina, Marion Junction, Crossville, and Fairhope, AL, 1991. A series of workshops at area experiment substations for farmers, county agents, and agribusiness personnel. Gave lectures on disease management and toured wheat field plots with clientele and instructed them in how to recognize common wheat diseases.

Wheat Disease Workshop, Belle Mina, AL, 1990. Conducted wheat disease workshop for clientele in the Tennessee Valley of AL, gave instruction in wheat disease management and control.

Forage Disease Survey in Lee County, 1990. Instructed county agent in identification of forage diseases.

Lectures

Gave update on Current Research in Plant Pathology to the Executive Committee of The Alabama Association of County Agents 1994.

Presented paper on Wheat Disease Management, Alabama Pesticide and Fertilizer Conference Auburn University, 1993.

Presented paper on Fungicides for Wheat - Seed and Foliar, Alabama Pest and Pesticide Conference. Auburn University, 1991.

Presented paper on Wheat Disease Management, Alabama Pesticide and Fertilizer Conference, Auburn University, 1993.

Presented paper on Fungicides for Wheat - Seed and Foliar, Alabama Pest and Pesticide Conference. Auburn University, 1991

Yearly update on Wheat Disease Research presented to Wheat and Feed Grains Committee Meeting 1991-present.

Other Extension Contributions

Rating Small Grain Variety Trials for Disease, 1993-Present. Yearly ratings of small grain varieties for disease at 10 Alabama Agriculture Experiment Station substations.

Conducted statewide survey of Root and Crown Pathogens of Wheat, 1993-94. Wheat Foliar Fungicide Screening Test Gulf Coast Substation, 1993-present. Yearly evaluations of registered and experimental fungicides for control of wheat diseases.

Evaluation of Foliar Fungicides for Control of Head Scab of Wheat, Sand Mountain and Tennessee Valley Substations, 1990-92.

On Farm Demonstration/Research trial for Early Season Control of Foliar Diseases of Wheat, Baldwin County, 1991-92.

On Farm Demonstration/Research trials Screening Wheat Varieties for Sensitivity to Soilborne Wheat Mosaic Virus Autauga and Madison Counties, 1991-present.

EXTENSION PUBLICATIONS

Fact Sheet and Circulars

Collins, D. J. 1995. Stored Grains IPM, Alabama Cooperative Extension Service.

Collins, D. J. 1994. Diseases of Barley, Rye, and Triticale in Alabama. Alabama Cooperative Extension Service, Circular ANR-903.

Collins, D. J. 1993. Alfalfa Disease Control in: Alfalfa IPM Alabama Cooperative Extension Service (revised annually).

Collins, D. J. 1993. Diseases of Forage Legumes in Alabama. Alabama Cooperative Extension Service, Circular ANR-781.

Collins, D. J. 1991. Diseases of Forage Grasses, Alabama Cooperative Extension Service, Circular ANR-614.

Collins, D. J. 1991. Oat Diseases In Alabama, Alabama Cooperative Extension Service, Circular ANR-631.

Collins, D. J. 1991. Small Grain Disease Control in: Alabama Pesticide Handbook Alabama Cooperative Extension Service, Circular ANR-500 (revised annually).

Collins, D.J. 1991. Pastures and Forage crops Disease Control in: Alabama Pesticide Handbook, Alabama Cooperative Extension Service, Circular ANR-500 (revised annually).

Everest, J. W., Patterson, M. G., Mask, P. French, J. C., Reed, T., and Collins, D. J. 1993. Small Grains, Weed, Insect, and Disease Control Guide, Alabama Cooperative Extension Service, Circular ANR-458 (revised annually)

Hagan, A. K., Mask, P., Gudauskas, R. T., and Collins, D. J. 1990. Wheat Diseases and Their Control, Alabama Cooperative Extension Service, Circular ANR-543.

Timely Information Reports

Collins, D. J. 1990. Soilborne Wheat Mosaic Virus, Timely Information, Alabama. Cooperative Extension Service, May, 1990.

Collins, D. J., 1990. Head Scab of Wheat. Timely Information, Alabama Cooperative Extension Service, June, 1990.

Newsletter

Collins, D. J. Alabama Wheat Disease Report. Alabama Cooperative Extension Service. January-May, 1991-93. (Circulated 12 issues - mailings included 200 on-campus personnel, 67 Alabama counties, and 20 colleagues outside of Alabama with an estimate of 18,000 copies in circulation during a three year period).

Collins, D. J. Alabama Wheat Disease Report. Alabama Cooperative Extension Service. January-May, 1994-96. (Circulated 4 issues biweekly - mailings included 200 on-campus personnel, 67 Alabama counties, and 20 colleagues outside of Alabama with an estimate of 4000 copies in circulation).

Mass Media

Video of Intensive Wheat Management Workshop, Summerdale, AL January, 1991.

Radio announcements (7).

Newspaper Articles

Wheat Disease Can Be Controlled with Cultural and Chemical Methods, *The Opelika-Auburn News*, November 24, 1993.

Cultural, Chemical Methods Control Wheat Disease, *Selma Times-Journal*, November 18, 1993.

Search Fields for Plant Disease, *Selma Times-Journal* April 28, 1993.

Leaf Rust Damages Wheat, *Selma Times-Journal*, May 12, 1993.

Wheat Diseases a Problem in Alabama, *Andalusia Star-News*, May 27, 1993.

Be on Lookout for Wheat Scab, *Selma Times-Journal*, May 25, 1993.

Powdery Mildew of Wheat, *Troy Messenger*, May 17, 1992.

Cold Damage on Wheat, *Dothan Eagle*, April 19, 1992

Loose Smut on Wheat, *Dothan Eagle*, May 10, 1992.

SERVICE

College of Agriculture

Represented Auburn University at Southern Region Preliminary Proposal Preparation for Regional Training Project in Sustainable Agriculture. Nashville, TN 1994.

Minority Recruitment and Retention Committee College of Agriculture, Auburn University 1993-Present.

Sustainable Agriculture Initiative Work Group, Alabama Cooperative Extension Service, Auburn University 1992-Present.

Publication Committee, Alabama Cooperative Extension Service, Auburn University 1992.

Task Force on Governance and Representation for Employment Categories, Alabama Cooperative Extension Service, Auburn University 1991.

Writing Team for Sustainable Agriculture Production Systems, Alabama Cooperative Extension Service, Auburn University 1990.

University

Minority Recruitment Retention Committee College of Agriculture, 1993-Present.

Visiting Scientist and Scholars Committee College of Agriculture, 1993-Present.

Publication Committee, Auburn University/Cooperative Extension Service, 1992.

Civil Rights Affirmative Action/Cultural Diversity Task Force. Auburn University, Cooperative Extension Service, 1992.

Sustainable Agriculture Initiative Work Group. Auburn University, Cooperative Extension Service, 1992.

Writing Team for Sustainable Agricultural Production Systems. Auburn University, Cooperative Extension Service, 1990.

Task Force on Governance and Representation For Employment Categories.

Auburn University, Cooperative Extension Service, 1991.

Department Representative to University Faculty Senate, 1993-1996.

Department of Plant Pathology

Recruited graduate student, Pamela Hughes, to Department of Plant Pathology 1995.

Represented Department Head at Department Head Meeting of The Southern Division of The American Phytopathological Society Meeting. Gave overview of the Department Research, Extension, and Teaching Activities, New Orleans, LA January 29, 1995.

Presented Seminar on Lupin Disease Management Trip to Australia January 6, 1995.

Presented Seminar on Wheat and Lupin Disease Management to Department of Botany and Microbiology, Auburn University March 10, 1995.

Represented Department Head at meeting of The Board of Directors Alabama County Agent Association, and Organized Tour of Department of Plant Pathology Research Laboratories October 26, 1994.

Organized tour of Biology Students from Morehouse College of the Department of Plant Pathology, 1994.

Search Committee for Biocontrol position, Department of Plant Pathology 1993.

Presented Seminar on Forage and Small Grain Diseases in Alabama February 12, 1993.

Represented Department Head at Department Head Meeting of The Southern Division of the American Phytopathological Society Meeting. Gave overview of Department's Activities and Plans Hosting the Southern Division of The American Phytopathological Meeting in Auburn (March 1994). Tulsa Oklahoma, January 31, 1993.

Departmental manuscript review committee 1990-1993.

Guest Lecturer PLP652, Soil-and-Seed-Borne Diseases of Plants 1992.

Minority Graduate Student Recruitment for Department of Plant Pathology, 1993-present.

Other Service Activities

Participant in the Mentor/Mentee Program for College Freshmen, Auburn University Office of Special Programs 1990-Present.

Participant in Summer High School Honors Program, College of Agriculture Auburn University 1993.

Professional Service

Session Organizer Urban Forestry Health Management , American Phytopathological Society, 2006.

Forest Pathology Committee American Phytopathological Society, 2004-06.

Participant National Summit on the Future of Forest Education and Research Jan. 4-6, 2006.

Chairperson, Cultural Diversity Committee, American Phytopathological Society 1995-1996.

Presented paper on Joint Research/Extension Appointment at Discussion Session Entitled: "Enhancing your Career as a Plant Pathologist" Sponsored by the Cultural Diversity Committee and The Women in Plant Pathology Committee at The American Phytopathological Society Annual Meeting, Pittsburgh, PA August 12-17, 1995.

Participant in panel Discussion on: "How to Increase Minority Students In Degree Program." Discussion Session Sponsored by The Cultural Diversity Committee at The American Phytopathological Annual Meeting, Albuquerque, New Mexico August 6-10, 1994.

Chaired session on Grain Diseases. Southern Division American Phytopathological Society Annual Meeting, Auburn University, Auburn, Alabama, 1994. Cultural Diversity Committee, American Phytopathological Society, 1992-Present.

Integrated Pest Management Committee, American Phytopathological Society, 1990-94.

Reviewed Manuscript for USDA/ARS, 1993

Reviewed Manuscript for Phytopathology, 1991.

Reviewed Manuscript for USDA/ARS, 1990.

Community Service

Presented lecture on Plant Pathology and gave tour of laboratories to students from Banneker High School, Birmingham, Alabama, 1994.

Career Day Speaker, Loachapoka High School, Loachapoka, Alabama, 1992.

Career Day Speaker E. E. Rodgers S.D.A. School, Jackson, Mississippi, 1991.

Presented seminar Oakwood College, Department of Biology, Huntsville, Alabama, 1991.

Career Day Speaker, Opelika High School, Opelika, Alabama, 1991.

Awards Day Speaker, Loachapoka High School, Loachapoka, Alabama, 1991.

Career Day Speaker University Place Elementary School, Tuscaloosa, Alabama, 1990.

Presented seminar on careers in agriculture at state 4-H congress, Auburn University, Auburn, Alabama, 1990.

Science advisor to Loachapoka High School, Loachapoka, Alabama, 1990-present.

Career Day Speaker McKinley High School, Washington, D. C., 1989.

Career Day Speaker Carole Highlands Elementary School, Takoma Park, Maryland 1989.

