

**RESUME OF**

**DR. WILLIAM A. MEYER**

**Professor, Director of Turfgrass Breeding**

**Rutgers University - Cook College  
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New Brunswick, NJ 08901-8520**

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## **PERSONAL ACHIEVEMENTS, RECOGNITION AND SERVICE**

### **Degrees Received:**

B.S., Horticulture-Turf, 1968, University of Illinois  
M.S., Plant Pathology, 1969, University of Illinois  
Graduate Study in Central India, JNAU Agricultural University,  
Jabalpur, India; studying soil borne disease of soybeans, 1971.  
Ph.D., Plant Pathology, 1972, University of Illinois

### **Professional Positions Held:**

Professor - Plant Science, Rutgers University, April 1996 – present  
Turfgrass Breeder  
Associate Director - Center for Turfgrass Science, 1996 - present  
Director - Adelpia Research Farm, Hort Farm I and II, 1996 - present  
Research Director - 1972-1975, Warrens Turf Nursery, Palos Park, IL.  
Vice-President-Research - 1975-1996, Turf-Seed, Inc., Hubbard, OR  
President - Turfgrass Breeder - 1975-1996, Pure Seed Testing,  
Inc., Hubbard OR  
Adjunct Member of Graduate Faculty - 1983-1996, Oregon State  
University, Dept. of Crop Science.

### **Membership in Honorary Academic Societies:**

Sigma Xi  
Alpha Zeta

### **Membership in Professional Societies:**

American Society of Agronomy  
Crop Science Society of America (CSSA)  
International Turfgrass Society  
National Council of Commercial Plant Breeders  
American Phytopathological Society  
Grass Breeders Work Planning Conference  
International Association of Plant Breeders for the Protection of Plant  
Varieties  
New Jersey Turfgrass Association  
Midwest Golf Course Superintendents Association (Honorary)  
Golf Course Superintendents Association of America  
New Jersey Golf Course Superintendents Association (Honorary)

## **Honors and Awards Received Since Baccalaureate Degree:**

Wright Fellowship, University of Illinois, 1970 and 1971  
Golf Course Superintendents Assn. of America Scholarship, 1967  
Genetics and Plant Breeding Award for Industry for Crop Science Society of America, 1991  
Fellow of the Crop Science Society of America, 1993  
Fellow of the American Society of Agronomy, 1994  
Fred Grau Turfgrass Science Award of Crop Science Society of America, 1994  
Honorable Academician of Kyrgyz Agrarian Academy, Biskek, 2001  
Non-resident Fellow of the Noble Foundation, Ardmore, OK, 2002 - present

## **Service to ASA and CSSA:**

### **Appointed positions:**

C-851 - Committee on Preservation of Plant Germplasm, 1986-present  
CSSA Fred V. Grau Turfgrass Science Award Committee, 1988-89, 1998, 2000-2002; Chair 1989-90  
C691-13 CSSA Liaison to the International Turfgrass Society, 1990-93  
Fellows Committee of Crop Science Society of America, 1994 and 1995  
Fred Grau Award Committee of Crop Science Society of America, 2000 present  
Awards Nominating Committee of C-5 Division of the Crop Science Society of America, 2003-present

### **Elected positions:**

Board of Director, CSSA, 1989-91  
Program Chair C-5, 1989  
Chair, Division C-5, 1991  
Executive Committee C-5, 1990-92

### **Other Service:**

#### **National Service to Seed Trade:**

American Seed Trade Association, Committee on Fluorescence, 1981-83  
American Seed Trade Association, Committee on Minimum Distance Between Tall Fescue Varieties, Chair, 1988-91  
National Germplasm System-Crop Advisory Committee - Turf and Forage Grasses, 1986-1994  
Member and Alternate of the National Grass Variety Review Board, 1984-1988, 1995-Present.

Grass Breeders Work Planning Conference, 1976-present; Chair and Host  
 1988; President, 1991  
 Variety Review Board of the Lawn Institute, 1983-85  
 Turfgrass Breeders Association, Vice President, 1988-89;  
 Secretary-Treasurer, 1989-91  
 Coordinating Committee of National Turfgrass Evaluation Program, 1989-  
 91  
 National Turfgrass Evaluation Program Policy Committee, 1989-1992  
 American Seed Trade Association, Chairman of the Lawn Seed Division,  
 . 1990  
 American Seed Trade Association, Program Chair of Lawn Seed Division,  
 1993  
 American Seed Trade Association, Chairman Ad Hoc Committee on  
 . VNS/Variety Control, Lawn Seed Division, 1994  
 National Turfgrass Evaluation Program, Bentgrass Evaluation Committee  
 - 1998, Kentucky Bluegrass Evaluation Committee - 2000  
 Grass Seed Cropping Systems for Sustainable Agriculture, USDA  
 -CSREES Grant, 2002 - present  
 Forage and Turf Crop Germplasm Committee, USDA, 2001-present  
 National Turfgrass Evaluation Committee for Bentgrass National Test  
 Fred Grau Award Committee of Crop Science Society of America, 2000-  
 present  
 National Germplasm System Crop Advisory Committee - Turf and Forage  
 Grasses, 2002-present  
 Reviewer for Grass Seed Cropping Systems for Sustainable Agriculture,  
 USDA-CSRESS Grant, 2002-present  
 Advisory Committee of National Turfgrass Evaluation Program for  
 . Bentgrass, 2003

**Regional Service:**

Western Regional Turfgrass Coordinating Committee, 1976-present; Chair  
 1980  
 Oregon Seed Trade Association, 1975-1996  
 President, 1989-1990  
 Board of Directors, 1984-1991  
 Secretary-Treasurer, 1988  
 Chair of Research and Development Committee, 1984-86, 1989  
 Advisory Committee to Oregon Governor's Task Force on Field Burning,  
 1989  
 School Board Member, Silverton Union High, 1984-88  
 Served on Committee for Master of Science student at Oregon State  
 University, as the co-advisor, 1984-85  
 Board of Directors of Oregonians for Agriculture, a political action  
 committee to preserve agricultural practices, 1989-present  
 Technical Advisory Committee for Straw Utilization, Oregon Dept. of  
 Economic Development, 1990-1996  
 Member Oregon Seed Council, 1989-1996

Oregon Dept. of Agriculture Field Burning Alternatives Research Program  
Committee, 1992-1996

**Cook College Service:**

FASIP Committee, Plant Science, 1998  
Deans Advisory Committee, 1998  
Search Committee for Turf Entomologist, 1998  
Task Force for OCLTT, 1999  
Turf Scholarship Committee, 1998 - present  
Dean of Research Search Committee, 1998-1999  
Advisor to Rutgers Student Turf Club, 1998 - present  
Chair of Plant Improvement Committee, Cook College, 2000  
Co-Chair of Research and Scholarship Committee, Vision and Planning,  
Cook College, 2000  
OCLTT Advisory Committee, Cook College, 2000 - present  
Chair of Search Committee to Hire Turfgrass Physiologist, 2000  
FASIP Committee Plant Biology and Biology, 2002  
Variety Review Committee, Cook College, 2001 - present  
FASIP Committee, Plant Biology and Pathology, 2002  
Chair of Plant Variety Review Committee, Cook College, 2001 - present  
Chair of Turfgrass Breeding Search Committee, Cook College, Dept. of  
Plant Biology and Pathology, October 2003 - March 2004

**International Service:**

Member of International Turfgrass Society, 1972-present  
Elected to Board of Directors of the International Turfgrass Society, 1989-  
1997  
Finance Chair for 1993 ITRC Conference  
Vice President for grasses of International Association of Plant Breeders  
for the Protection of Plant Varieties, 1993-2001

**PROFESSIONAL ACHIEVEMENTS:**

**Extension and Industrial Education Service:**

William A. Meyer has been widely sought as a spokesman on variety improvement of cool-season turfgrasses and the U.S. turfgrass seed industry. His talks are presented in a clear, concise, well-organized manner oriented as appropriate to the specific audience. He speaks regularly at national, regional and state turfgrass conferences. The number of requests far exceeds the time available.

For the past 31 years Dr. Meyer has given four or more invitational lectures annually at university turfgrass conferences: including Purdue, Michigan State, Ohio State, Rutgers, Maryland, Illinois, Texas, Colorado, Utah, Georgia, Arizona, and

California; plus the American Golf Course Architects Society, GCSAA, International Turfgrass Conference, and the Sports Turf Association.

Dr. Meyer chaired a large Annual Field Day related to turf and seed production research in Western Oregon, 1982-1995. Over 600 attend each year from throughout the United States and world.

He served on the three-person People's Republic of China Committee of the Lawn Seed Division of the American Seed Trade Association to establish turf trials in Beijing, China and to prepare turfs for 1990 Asian Games. Traveled to Beijing in August of 1988 and successfully established a large 250-entry turf trial.

### **Investigative Competency:**

Dr. Meyer was the administrator and chief research scientist of the largest and most successful private turfgrass breeding program in the world from 1975-1996. This is evident by the fact that (a) 80 cultivars developed or codeveloped by him are in current production by affiliated companies or by competitors who have purchased the rights to cultivars developed by him, (b) 59 cultivars that have been granted plant variety protection, and 45 cultivars have been registered with CSSA. The intensity and dedication of his efforts are evident in that this has all been accomplished since the breeding program was initiated in 1972.

One of Dr. Meyer's outstanding achievements was the search, identification, and utilization of stem rust resistance in the development of resistant perennial ryegrass cultivars. It has been a contribution of great significance in terms of protecting grower investments and insuring income to the grass seed producers of the Pacific Northwest. He discovered and developed the first three genetic sources of stem rust resistance in perennial ryegrass. He then developed or co-developed the first stem rust resistant commercial perennial ryegrass cultivars: Manhattan II, Manhattan 3, Citation II, Citation III, Omega II, Birdie II, Vintage 2DF, SR4100, Sunrye (246), Jazz, SR4000, Commander, Competitor, Pebble Beach, Charger, Saturn, Assure, Legacy, Quickstart, Dimension, Shining Star, Passport and BrightStar. Dr. Meyer also discovered and developed the first source of stripe rust resistance in Shasta Kentucky bluegrass.

A second major achievement, nearly equal in importance, is a very extended search for a semi-dwarfing character, reduced vertical shoot growth rate, and high tiller density in tall fescues. Dr. Meyer has been successful in isolating and subsequently incorporating these characteristics into improved turf-type cultivars of tall fescue for the unique adaptation zone between the cool and warm climatic regions where most turfgrasses are very difficult to grow. His turf-type tall fescues have exhibited high performance levels under heat, drought, and shade stresses. Nine improved semi-dwarf cultivars released were Coronado, Tomahawk, Matador, Monarch, Apache II, Eldorado, Silverado, and Trailblazer II.

There were nine major private turfgrass breeding programs in the 1980's and 90's in the US involving one or more Ph.D. geneticists, plus an equal number of lesser efforts by other companies. A number of these companies have been devoting

efforts to turfgrass breeding for three to four decades. The success of Dr. Meyer's breeding program in a short period, compared to the other breeding programs, is a credit to his innovativeness, diligence and dedication to his chosen field of endeavor. No other turfgrass breeder within the private sector has ever approached the level of accomplishments achieved by Dr. Meyer.

Internationally, Dr. Meyer is well known by fellow grass breeders in other countries, such as the Netherlands, Germany, France, Denmark, Sweden, New Zealand, and Australia. He is very highly respected and his advice is frequently sought by these foreign grass breeders. A number of turfgrass cultivars developed by Dr. Meyer are now standards in national performance trials of individual countries; thus, other breeders strive to achieve similar cultivar performance levels already set by him. He has 30 cultivars inscribed in the European OECD approved list.

Dr. Meyer has not restricted his efforts solely to the turfgrass breeding area. He has branched into forage grasses, with emphasis on orchardgrass, where he made very substantial progress. He also conducted a major wildflower evaluation program, and directed some efforts in sugarbeet breeding in conjunction with a European company.

### **Rutgers Investigative Competency**

Since April, 1996 Dr. Meyer has served as the Director of Turfgrass Breeding of Kentucky bluegrass, perennial ryegrass, tall fescue, fine fescue and bentgrass at Rutgers University and New Jersey Agricultural Experiment Station. This work has involved conducting population improvement projects on 13 different species of cross-pollinated cool-season turfgrasses. A seedling screening technique has also proven successful in identifying promising hybrids in large populations obtained from crossing apomictic Kentucky bluegrasses. Over 650,000 seedlings have been screened each of the past six winters. Over 800 new potential Kentucky bluegrass hybrids were harvested in summer of 1997, 1400 in 1998, 1700 in 1999, 2300 in 2000, 1900 in 2001, and 1100 in 2002.

This intensive breeding work has focused on developing germplasm and varieties with improved turf performance, seed production and disease and insect resistance. Another important aspect has been the identification of new sources of *Neotyphodium* endophytes to provide improved insect and stress tolerance in the fescues and ryegrasses. In the past 7 years, Dr. Meyer has directed the collection of over 9000 new turfgrass germplasm sources and 250 new endophytes from old turf areas in New Jersey, New York, Connecticut, Oregon, Poland, Switzerland, Austria, Germany, Italy, The Czech Republic, Bulgaria, Romania, Inner Mongolia, Finland, Norway, Pyreneans, Rhode Island, and Massachusetts, Sweden, France, Slovenia, Croatia, Portugal and Maryland.

The new unique germplasm sources identified from these collections are being integrated into modified backcrossing program with the best adapted turfgrass germplasm for New Jersey. Over 80 new sources of endophyte from eastern Europe in *Loliums* are presently in this project.

In the past 7 years, he has developed or co-developed over 150 new improved cool season turfgrass cultivars.

### **Leadership:**

At Rutgers, Dr. Meyer serves as director of both the Adelphia Research Center in Freehold, NJ and the Horticulture Farms I and II in North Brunswick, NJ. Three research facilities are well maintained with many exciting improvement projects on the farms.

He also serves as the Associate Director of the Center for Turfgrass Science and is a member of the budget and finance committee. Dr. Meyer also serves as the faculty advisor and instructor to the Continuing Education Golf Turf Management Short Course with over 170 students per year in the 10 week program and 53 students in the 3 week short course. He is advising three Ph.D. students. He is also on two other graduate student committees.

There are few scientists who are so outwardly enthusiastic about their chosen field of research. In traveling or visiting with him, Dr. Meyer is constantly challenging his guests with new ideas and approaches to the breeding and development of turfgrass cultivars. His presence stimulates a thought provoking atmosphere and an enthusiasm for grass breeding that is very contagious to those around him. This enthusiasm for grass breeding and genetics combined with a unique willingness to share his knowledge have had a major impact on the grass breeding programs within the industry and on turfgrass breeding programs at the agricultural experiment stations within the United States. The extent to which he shares the knowledge he has developed is unusual, to say the least. As a result, Dr. Meyer has had an even greater impact on the development of turfgrass cultivars in North America and throughout the world.

Dr. Meyer's superior leadership qualities are also exhibited by his very active role in national, regional and state turf, and seed industry organizations, as previously listed. He has been a respected spokesman known for innovative new ideas and a strong stance in terms of producing and marketing high quality improved turfgrass seed.

### **Service:**

Dr. Meyer developed or co-developed 54 improved cultivars with Plant Variety Protection when he was in private industry. Over 20% of the seed of proprietary cool-season turfgrass cultivars now produced and marketed were developed or co-developed by Dr. Meyer. This represents 40 million pounds of grass seed out of a 200 million total. His impressive service contributions include:

Developed or co-developed in private industry over 40 commercial turf-type tall fescue (*Festuca arundinacea*) cultivars in the last 24 years, which represent over 25% of the 100,000 acres now in commercial seed production.

The three tall fescue entries from the Rutgers breeding program, placed in the 1996 National Turfgrass Evaluation Trial, were the top three entries out of 126 in 1997, 1998, 1999 and 2000. Over 25% of the commercial turf-type perennial ryegrass (*Loium perenne*) seed acreage (200,000 acres) in Western Oregon comes from the 46 cultivars developed by Dr. Meyer. He developed Saturn perennial ryegrass, the No. 1 cultivar in the 1986 National Perennial Ryegrass Trials, and co-developed 7 of the top 11 cultivars. BrightStar is another variety that topped the 1990 National Perennial Ryegrass Trial and Brightstar II topped the 1994 trial. The 15 entries from Rutgers in the 1999 National Perennial Ryegrass are again setting the standard for performance to date. The top 20 entries in 2001 Tall Fescue NTEP were from Rutgers in 2002.

The stem rust resistance developed by Dr. Meyer is saving Oregon perennial ryegrass seed growers over \$250,000 per year in fungicide costs.

Co-developed in private industry the Kentucky bluegrass (*Poa pratensis*) cultivar Blacksburg, which has ranked first in the National Bluegrass Trials. Also developed Challenger, Columbia, Midnight, Optigreen, Able I, Livingston, Brilliant, Apollo, Serene, Northstar, Voyager and Unique. These turf-type cultivars represent 5-10% of U.S. production. The cultivars Moonshadow and Midnight II are two top entries, in 2000 NTEP for 2001.

Developed the improved turf-type rough bluegrass (*Poa trivialis*) cultivar, Colt. Involved in the development of Winterplay rough bluegrass.

Developed Shadow, Shadow II and Tiffany Chewings fescue; and Flyer, Vista, Shademaster, and Shademaster II spreading red fescues (*Festuca rubra*); representing 10% of the fine-leafed fescues in seed production. Has also developed an endophyte-containing Shadow (E) Chewings fescue. Developed or co-developed the new excellent strong creeping red fescue Jaspar II, Cindy Lou, Navigator and Aberdeen. The new top performing Chewings fescues are Longfellow II, Ambassador, and Intrigue, and the new top performing hard fescues are Berkshire, Oxford, Eureka II, and Chariot.

Developed the improved turf-type, high seed yielding hard fescue (*Festuca longifolia*) cultivar, Aurora, that has rated well in all National Fescue Trials. Developed an endophyte-containing version of Aurora (E). Developed Discovery hard

fescue, which is an endophyte containing cultivar that topped the 1989 and 1993 National Fescue Trials.

Developed Bighorn sheep fescue (*Festuca ovina*), a landmark cultivar for turf use.

Since April 1996, Dr. Meyer has been involved at Rutgers in the NJAES germplasm used to develop the following new turfgrass varieties including Brightstar II, SR4010, Riviera II, Repell III, Prelude III, Paragon, Churchill, Exacta, Palmer III, Premier II, Road Runner, Catalina, Jet, Promise, Pizzazz, Affirmed, Gator II, Arid II, Wizard, Amazing, Applaud, Divine, Charismatic, Seville II, Cabo, Pacesetter, Manhattan 4, Mach I, Keystone, Kokomo, SR 4220, SR 4420, Hawkeye, Arrival, Paragon GLF, Palmer IV, Prelude IV, Sunkissed, Dazzle, 1G2, Repell GLS, and Panther perennial ryegrasses; Pride, Masterpiece, Coronado Gold, Tarheel, Rembrant, Wolfpack, Bandana, Plantation, Picasso, Mustang II, Mustang III, Rebel Sentry, Rebel 2000, Rebel Exceda, Endeavor, Bingo, Finesse, Focus, SR 8250, Finesse II, Greystone, Fort, Justice, 2n Mellenium, Da Vinci, Signia, Guardian 21, Cochise III, Avenger, Blackwatch, Titanium, Kalahari, Padre, Silverstar, Raptor, Constitution, Magellan, SR 8550, Falcon IV, Finelawn Elite, Five-Point, Gremlin, Riversied, and Six-Point tall fescues; Longfellow II, Ambassador, Treasure, Intrigue, and Seven Seas Chewing fescues; Oxford, Nordic, Reliant II, Aberdeen, SR5210, Celestial, Reliant IV, Predator, and Viking hard fescues; Trapeze, Pathfinder, Fenwick, Cindy Lou and Razor strong creeping red fescues; Princeton P105, Blackstone, Langara, Moonlight, Cabernet, Sonoma, Bordeaux, Boutique Brooklawn, Champagne, Bedazzled, Moonshadow Mallard, Blue Ridge, Royale, Midnight II, Bluestone, Royce, Champlain, Glenmont, Mercury, and Gold Star Kentucky bluegrasses; Independence, Declaration, Benchmark DSR, and Kingpin creeping bentgrasses; and Greenwich, Vesper, and Legendary velvet bentgrasses.

New option and sale agreements have been developed with commercial seed companies on 200 new germplasm sources in the past 6 years. These agreements have been negotiated and prepared with over 20 different seed companies.

### **Book Chapters:**

J.F. White, Jr., W. Meyer, R. Sullivan, M. Moy, G. Balady, and D. Cabral. 2001. Evolution of *Epichloë/Neotyphodium* endophytes. The Germany Symposium - Neotyphodium/Grass Interaction (ed., V. Paw and P.H. Dapprich, Fachbereich Agrarwirtschaft, Soest, Germany, pgs. 17-30.

J.F. White, Jr., R. Sullivan, M. Moy, and W. Meyer. 2002. Evolution of *Epichloë/Neotyphodium* endophytes and other clavicipitalean biotrophs. In a book called Symbiosis: Mechanisms and Model Systems, Eds. J. Seckback. Kluwer Press, The Netherlands, pgs. 411-424.

J.F. White, F. Belanger, Betsy Lewis, Melinda Moy, and W. Meyer. 2002. Developmental interactions between clavicipitalean endophytes and epibionts and their host grasses. *Plant-fungal Symbiosis*. 33:201-213.

White, J.F. Jr., F. Belanger, R. Sullivan, E. Lewis, M. Moy, W.A. Meyer, and C.W. Bacon. 2003. Developmental interactions between clavicipitaleans and their hosts. *In*: A. Varma, L. Abbot, D. Werner and R. Hampp (eds.). Plant Surface Microbiology. Springer-Verlag, Germany.

Meyer, W.A. and Eric Watkins. 2003. Tall fescue (*Festuca arundinacea*). In a book on Turfgrass Biology, Genetics and Cytotaxonomy, Eds. M. Casler and R. Duncan, John Wiley and Sons, Inc., pgs. 107-127.

## **Publications:**

### **Scientific Journals:**

Meyer, W.A. and J.B. Sinclair. 1970. *Pyrenochaeta terrestris*, a root pathogen on creeping bentgrass. Plant Disease Repr. 54:506-507.

Meyer, W.A., J.F. Nicholson and J.B. Sinclair. 1971. Translocation of benomyl in creeping bentgrass. Phytopathology 61:1198-1200.

Meyer, W.A., M.P. Britton, L.E. Gray and J.B. Sinclair. 1971. Fungicide effects of the fungal ecology in creeping bentgrass turf. Mycopathologia et Mycologia Applicata 43:309-315.

Meyer, W.A., P.N. Thapliya, J.A. Frank and J.B. Sinclair. 1971. Detection of phytoalexin in soybean roots. Phytopathology 61:584-585.

Nicholson, J.F., W.A. Meyer, J.B. Sinclair and J.D. Butler. 1971. Turf isolates of *Sclerotinia homeocarpa* tolerant to Dyrene. Phytopathology A 72:169-172.

Meyer, W.A. and J.B. Sinclair. 1972. Root reduction and stem lesion development on soybeans by *Phytophthora megasperma* var. *sojae*. Phytopathology 62:1414-1416.

Meyer, W.A., J.B. Sinclair and M.N. Khare. 1973. Biology of *Macrophomina phaseoli* in soil studied with selective media. Phytopathology 63:613-620.

Meyer, W.A., J.B. Sinclair and M.N. Khare. 1974. Factors affecting charcoal rot of soybean seedlings. Phytopathology 64:845-849.

Turgeon, A.J. and W.A. Meyer. 1974. Effects of mowing height and fertilization level on disease incidence in five Kentucky bluegrasses. Plant Reporter 58:514-516.

Meyer, W.A. and A.J. Turgeon. 1975. Control of red leaf spot of Toronto creeping bentgrass. Plant Disease Reporter 59:642-645.

Meyer, W.A. 1982. Breeding disease-resistant cool-season turfgrass cultivars for the United States. Plant Disease 66:341.

- Horst, G.L., M.C. Engelke and W.A. Meyer. 1984. Assessment of visual evaluation techniques. *Agronomy Journal* 76:619-622.
- Meyer, W.A., C.A. Rose-Fricker and A.J.P. van Wijk. 1985. Breeding for resistance to crown and stem rust in perennial ryegrass. "Proceedings 5th International Turfgrass Conference ITS: Avingnon, France (ed. F. Lemaire). (INRA Publications, Versailles, France).
- Rose-Fricker, C.A., W.A. Meyer, W.R. Kronstad. 1986. Inheritance of resistance to stem rust (*Puccinia graminis* subsp. *graminicola*) in six perennial ryegrass (*Loium perenne*) crosses. *Plant Disease* 70:678-681.
- Meyer, W.A. and F.C. Belanger. 1997. The role of conventional breeding and biotechnical approaches to improve disease resistance in cool-season turfgrasses. Pages 777-790. In: "Proceedings 8th Int. Research Conference ITS: Sydney, Australia (ed. P. Martin). (Univ. Printing Service, Univ. of Sydney, New South Wales, 2006 Australia).
- Richardson, M.D., G.W. Freeman, W.A. Meyer, P.V. Reddy, and J.F. White, Jr. 1997. Endophytes from fine fescues of Europe and North America. Pages 913-923. In: "Proceedings 8th Int. Research Conference ITS: Sydney, Australia (ed. P. Martin). (Univ. Printing Service, Univ. of Sydney, New South Wales, 2006, Australia).
- Rose-Fricker, C., M. Fraser, and W.A. Meyer. 1997. Competitive abilities and performance of cool-season turfgrass species in mixtures in the Willamette Valley or Oregon, USA, under high and low maintenance conditions. In: "Proceedings 8th Int. Research Conference ITS: Sydney, Australia (ed. P. Martin) second volume, in press (Univ. Printing Service, Univ. of Sydney, New South Wales, 2006 Australia).
- Kubik, Christine, William A. Meyer, Brandon Gaut. 1999. Assessing the abundance and polymorphism of simple sequence repeats in perennial ryegrass. *Crop Science* 39:1136-1141
- Qin Yue, Jennifer Johnson-Cicalese, Tom Gianfagna and William Meyer. 2000. Alkaloid production and chinch bug resistance in endophyte-inoculated chewings and strong creeping red fescues. *Journal of Chemical Ecology* 26:279-291.
- Bonos, S.A., W.A. Meyer and J.A. Murphy. 2000. Classification of Kentucky bluegrass types grown as spaced plants. *Hort Science* 35:910-913
- Belanger, F.C., C. Laramore, S. Bonos, W.A. Meyer and P.R. Day. 2000. Development of improved turfgrass with herbicide resistance through transformation. In: "Fate of Turfgrass Chemicals and Pest Management Approaches". J.M. Clark and M.P. Kenna (eds.) American Chemical Society Symposium Series 742. Pages 325-329.

Gaut, B.S., L.P. Tredway, C. Kubik, R.L. Gaut, and W.A. Meyer. 2000. Phylogenetic relationships and genetic diversity among members of the Festuca-Lolium-complex (*Poaceae*) based on ITS sequence data. *Plant Systematics and Evolution* 224:33-53.

Moy, Melinda, Faith Belanger, Russell Ducan, Adam Freehoff, Catherine Leary, W.A. Meyer, Ray Sullivan and J.F. White Jr. 2000. Identification of epiphyllons mycelial nets on leaves of grasses infected by claricipitaceous endophytes. *Symbiosis* 28:291-302.

Johnson-Cicalese, J., M.E. Secks, C.K. Lam, W.A. Meyer, J.A. Murphy, and F. Belanger. 2000. Cross species inoculation of Chewings and strong creeping red fescues with fungal endophytes. *Crop Science* 40:1490-1491.

Bonos, S.A., E. Watkins, J.A. Honig, M. Sosa, T. Molnar, J.A. Murphy, and W.A. Meyer. 2000. Breeding cool-season turfgrasses for wear tolerance using a wear simulator. *International Turfgrass Society Research Journal* 9:137-145.

Kubik, C., M. Sawkins, W.A. Meyer and B.S. Gaut. 2001. Genetic diversity of seven perennial ryegrass (*Lolium perenne*) cultivars based on SSR Markers. *Crop Science* 41:1565-1572.

Bonos, S.A., E. Watkins, J.A. Honig, M. Sosa, T. Molnar, J.A. Murphy, and W.A. Meyer. 2001. Breeding cool-season turfgrasses for wear tolerance using a wear simulator. *International Turfgrass Society Research Journal* 9:137-145.

Kubik, C., M. Sawkins, W.A. Meyer and B.S. Gaut. 2001. Genetic diversity of seven perennial ryegrass (*Lolium perenne*) cultivars based on SSR Markers. *Crop Science* 41:1565-1572.

White, J.F., Jr., R.F. Sullivan, G.A. Balady, T.J. Gianfagna, Q. Yue, W.A. Meyer and D. Cabral. 2001. A fungal endosymbiont of the grass *Bromus setifolius*: Distribution in some Andean populations. Identification and examination of beneficial properties. *Symbiosis* 31:241-257.

Yue, Qin, Chunlin Wang, Thomas J. Gianfagna and W.A. Meyer. 2001. Volatile compounds of endophyte-free and infected tall fescue. *Phytochemistry* 58:935-941.

White, J.F., F. Belanger, W.A. Meyer, R.F. Sullivan, J.F. Bischoff and E. Lewis. 2002.

Clavicipitalean fungal epibionts and endophytes - Development of symbiotic interactions with plants. Accepted by *Symbiosis* August, 2002.

Bonos, S.A. M.D. Casler and W.A. Meyer. 2002. Inheritance of dollar spot resistance in creeping bentgrass. *Crop Sci.* 43:2189-2195.

Bonos, S.A. C. Kubik, B.B. Clarke and W.A. Meyer. 2002. Breeding for gray leaf spot resistance in perennial ryegrass. Submitted to Crop Science May 22, 2002.

Bonos, S.A., K.A. Plumley and W.A. Meyer. 2002. Ploidy determination in *Agrostis* using laser flow cytometry and morphological traits. Crop Science 42:192-196.

Bonos, S.A., M.D. Casler and W.A. Meyer. 2002. Genotype responses and plant characteristics associated with dollar spot resistance in creeping bentgrass. Submitted to Crop Science, January 11, 2002.

Dai, D.S, Z. Guo, W.A. Meyer, P. Day and F.C. Belanger. 2003. Expression of pokeweed antiviral proteins in creeping bentgrass. Plant Cell Reports 21:497-502.

Belanger, F.C., T.R. Meagher, P.R. Day, K. Plumley, and W.A. Meyer. 2003. Interspecific Hybridization between *Agrostis stolonifera* and related *Agrostis* species under field conditions. Crop Sci. 43:240-246.

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Rose-Fricker, C.A., W.A. Meyer, S.A. Bonos and C. Reed Funk. 2003. United States Plant Variety Protection Application no. 200300150. Aberdeen strong creeping red fescue. Applied for Feb. 10, 2003.

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Brilman, L. R.F. Bara, C. Reed Funk and W.A. Meyer. 2003. United States Plant Variety Protection Application no. 200300174. Rendition tall fescue. Applied for Feb. 26, 2003.

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Nelson, E. W.A. Meyer and C. Reed Funk. 2003. United States Plant Variety Protection Application no. 200300303. Pentium perennial ryegrass. Applied for Aug. 6, 2003.

## **GRANTS:**

### **External (last 4 years)**

- 1998-2000 Cultivar and traffic effects on population dynamics of *Agrostis* spp. and *Poa annua* mixtures, \$74,820. United States Golf Assn. (with J.A.Murphy, Joshua Honig and B.B. Clarke).
- 1998-2003 Breeding improved transgenic creeping and colonial bentgrasses for golf course use, \$1,250,000. The Scotts and Monsanto Companies (with P. Day and F. Belanger).
- 1999-2003 Support for breeding cool-season grasses for golf course use, \$8,000. United States Golf Assn. (with C.Reed Funk).
- 2000-2001 Identification of creeping bentgrass (*Agrostis palustris* Huds.) cultivars using simple sequence repeats (SSR.), \$48,415. United States Golf Assn. (with Christine Kubik).
- 2003-2006 Genomic Linkage Map Construction and Identification of Quantitative Trait Loci Associated with Dollar Spot Resistance in Creeping Bentgrass.

- \$89,825. United States Golf Association (with W.A. Meyer, F.C. Belanger, G. Zylstra, C. Kubik, R. Wu.)
- 2003-2006 Physiological Characteristics and Molecular Basis of Heat Tolerance in Bentgrass. \$90,000. United States Golf Association (with B. Huang, J. Larkindale, and W.A. Meyer).
- 2003-2006 Developing Roundup Resistant and Dwarf in Kentucky bluegrass. \$450,000 from Monsanto and the Scotts Company (with B. Zilinskas, S. Bosos, G.Zhang, S. Hart, J. Honig and F. Belanger).
- 2003-2006 Genome Linkage Map Construction in *Agrostis stolonifera* for the Identification of Quantitative Trait Loci Associated with Dollar Spot Resistance. \$45,000. OJ Noer Foundation (with C. Kubik, W. A. Meyer, and B.B. Clarke). Submitted Feb. 1, 2002.