

BIOGRAPHICAL SKETCH
STACY A. BONOS

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Professional Preparation

Ph.D. Rutgers University, Plant Biology. 2001
M.S. Rutgers University, Plant Science and Technology. 1997
B.S. Gettysburg College, Biology 1993

Appointments

2017- present Professor, Turfgrass and Perennial Grass Breeding, Rutgers University, School of Environmental and Biological Sciences, Dept of Plant Biology

2011 – 2017 Associate Professor of Perennial Grass Breeding, Rutgers University, School of Environmental and Biological Sciences, Dept of Plant Biology and Pathology

2004- 2011 Assistant Professor of Turfgrass Breeding, Rutgers University, Cook College, Dept of Plant Biology and Pathology (tenure track)

2001-2004 Assistant Professor of Turfgrass Breeding, Rutgers University, Cook College, Department of Plant Biology and Pathology (non-tenure track)

Awards

2016 Crop Science Fellow Award - CSSA
2011 Cooperative Extension Team Award ‘Best of the Best’
2011 Rutgers University Board of Trustees Research Fellowship for Scholarly Excellence
2011- Northeast Award for Excellence in Multistate Research, Northeastern Regional Association (NERA) of State Agricultural Experiment Station Directors. Participant of the project NE1025 “Biology, Ecology and Management of Emerging Pests of Annual Bluegrass on Golf Courses”.
2010 Golf Magazine’s 40 Under 40
2009 Merle V. Adams Outstanding Junior Faculty Award
2009 Environmental Steward Award – New Jersey Turfgrass Association
2009 Early Career Achievement Award – Northeast Division APS
2009 Early Career Excellence in Plant Breeding – Plant Breeding Coordinating Committee
2007 Cooperative Extension Team Award ‘Best of the Best’
2005 Young Crop Scientist Award – ASA-CSSA-SSSA
2001 Musser International Turfgrass Foundation ‘Award of Excellence’
1st Place- Oral Presentation, Graduate Student Outstanding Paper Award 2000, C-5 Division ASA – CSSA – SSSA

USGA Green Section Internship – 2000

GCSAA Watson Fellowship 1999

1st Place- Oral Presentation, Graduate Student Outstanding Paper Award 1999, C-5 Division of ASA-CSSA-SSSA

Selected Publications (last 4 years) (71 published or accepted for publication)

Wang, J., P. Burgess, S. Bonos, W. Meyer, and B. Huang. 2017. Physiological responses and genetic variations in drought and heat tolerance for fine fescues. *J. Am. Hort Sci.* (in press)

Meyer, W. A., L. Hoffman, and S. A. Bonos. 2017. Breeding cool-season turfgrass cultivars for stress tolerance and sustainability in a changing environment. *Int. Turfgrass Soc. Res. J.* 13:p. 1-8.

Casler, M.D., S. Sosa, L. Hoffman, H. Mayton, C. Ernst, P. Adler, A.R. Boe, and S.A. Bonos. 2017. Biomass yield of switchgrass cultivars under high-input vs. low-input conditions. *Crop Science* doi: 10.2135/cropsci2016.08.0698

Honig, J. A., E. Zelzion, N. E. Wagner, C. Kubik, V. Averello, J. Vaiciunas, D. Bhattacharya, S. A. Bonos, and W. A. Meyer. 2017. Microsatellite Identification in Perennial Ryegrass using Next-Generation Sequencing. *Crop Sci.* 57(Suppl1):S-331-S-340. doi:10.2135/cropsci2016.07.0608

Koch, E. D. J. Honig, J. Vaiciunas, W. A. Meyer and S. A. Bonos. 2017. Endophyte effect on salinity tolerance in perennial ryegrass. *International Turfgrass Society Research Journal* 13:1–7 (2017). doi: 10.2134/itsrj2016.05.0444.

Yue, C., J. Wang, E. Watkins, S.A. Bonos, K.C. Nelson, J.A. Murphy, W.A. Meyer, and B.P. Horgan. 2016. Heterogeneous U.S. and Canada consumer preference for turfgrass attributes. *Canadian Journal of Agricultural Economics* 00 (2016) 1–37. DOI: 10.1111/cjag.12128

Hoffman, L.H., L.M. Chaves, E.N. Weibel, H. Mayton and S.A. Bonos. 2016. Impact of growing environment on anthracnose susceptibility of switchgrass cultivars and clones. *Plant Disease* 100(10):2034-2042. (doi: <http://dx.doi.org/10.1094/PDIS-01-16-0006-RE>).

Jespersen, D., E. Merewitz, Y. Xu, J. Honig, S. Bonos, W. Meyer, B. Huang. 2016. Quantitative trait loci associated with physiological traits for heat tolerance in creeping bentgrass. *Crop Science* Vol. 56 No. 3, p. 1314-1329.

Cortese, L.M. and S.A. Bonos. 2016. Germination in three switchgrass populations after two cycles of divergent selection for seed weight. *Agronomy Journal* 108:566-574, doi: 10.2134/agronj2015.0240.

Serapiglia, M., C. A. Mullen, A. A. Boateng, L.M. Cortese, S.A. Bonos, L. Hoffman. 2015. Evaluation of the impact of compositional differences in switchgrass genotypes on pyrolysis product yield. *Industrial Crops and Products* 74:957-968.

Honig, J.H., J. Vaicunias, V. Avellero, C. Kubik, W.A. Meyer and S.A. Bonos. 2015. Classification of bentgrass (*Agrostis*) cultivars and accessions based on microsatellite (SSR) markers. *Genet Resour Crop Evol.* DOI 10.1007/s10722-015-0307-6

Koch, M. W. Meyer and S.A. Bonos. 2015. Heritability of salinity tolerance in perennial ryegrass. *Crop Science* 55(4): 1834-1842.

Merewitz, E., F., Belanger, S. Warnke, B. Huang and S.A. Bonos. 2014. Quantitative trait loci associated with drought tolerance in creeping bentgrass (*Agrostis stolonifera* L.). *Crop Science* 54:2314-2324.

Cortese, L.M., Z. Helsel and S.A. Bonos. 2014. Biomass energy characteristics of switchgrass cultivars grown in New Jersey. *American Journal of Bioenergy* 3(2):95-108.

Honig, J.A., C. Kubik, W. Meyer, K. Amundsen, S.E. Warnke and S.A. Bonos. 2014. PCR marker-based genetic linkage map of creeping bentgrass and identification of QTL for dollar spot resistance. *Molecular Breeding*. 34(1):185-203.

Cross, J.W., S.A. Bonos, B. Huang and W.A. Meyer. 2013. Evaluation of heat and drought tolerance as components of summer stress on tall fescue genotypes. *HortScience*. 48(12):1562-1567.

Saxena, P., B. Huang, S.A. Bonos and W.A. Meyer. 2013. Photoperiod and temperature effects on rhizome production and tillering rate in tall fescue (*Lolium arundinaceum* (shreb) Darby. 2013. *Crop Science* 54 (3):1205-1210.

Cross, James, Eric Koch, D.A. Smith, M. Mohr, Eric Weibel, Ron Bara, S.A. Bonos and W.A. Meyer. 2013. Response of fine fescue turf species to simulated wear in New Jersey. *International Turfgrass Society Research Journal*. Vol 12:731-738.

Cortese, L.M. and S.A. Bonos. 2013. Evaluation of bioenergy traits in ten populations of switchgrass grown in New Jersey. *Bioenergy Research* DOI: 10.1007/s12155-012-9271-6. 157 *Plant Variety Protection Applications Issued*

198 Abstracts

105 Technical Reports or Extension Fact Sheets

191 PVP Certificates Issued

Current Grants

2017-2021 Increasing low input turfgrass adoption through breeding, innovation and public education. \$5,488,602. RU portion \$1,965,736. NIFA Specialty Crops Research Initiative. P.I. Watkins, E. with S.A. Bonos, N. Anderson, S. Bauer, B.S. Bushman, B. Clarke, A. Hegeman, J. Honig, B. Horgan, B. Huang, P. Koch, Alec Kowalewski, W. Meyer, J. Murphy, K. Nelson, A. Patton, S. Shekhar, C. Yue, N. Zhang.

Synergistic Activities

1. Over 15 speeches per year to industry personnel including farmers, scientists, golf course superintendents, sod growers, home owners, gardeners, landscape contractors, seed industry personnel.
2. Co-teach an undergraduate course on Plants for Bioenergy every other fall.
3. Teach an Advanced Plant Breeding course every other fall and a Plant Breeding course every spring.
4. Directly advise or co-advise 4 graduate students in the Plant Biology Graduate Program at Rutgers University studying both basic and applied disciplines in Plant Biology.
5. Serve on Executive Committee for the Department representing the Plant Breeding and Genetics Track

6. Serve as Track Coordinator for the Plant Breeding and Genomics Track for the Plant Biology Graduate Program
7. Serve as Technical Editor for Crop Science